Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 info@speag.com, http://www.speag.com

IMPORTANT NOTICE

USAGE OF THE DAE 4

The DAE unit is a delicate, high precision instrument and requires careful treatment by the user. There are no serviceable parts inside the DAE. Special attention shall be given to the following points:

Battery Exchange: The battery cover of the DAE4 unit is closed using a screw, over tightening the screw may cause the threads inside the DAE to wear out.

Shipping of the DAE: Before shipping the DAE to SPEAG for calibration, remove the batteries and pack the DAE in an antistatic bag. This antistatic bag shall then be packed into a larger box or container which protects the DAE from impacts during transportation. The package shall be marked to indicate that a fragile instrument is inside.

E-Stop Failures: Touch detection may be malfunctioning due to broken magnets in the E-stop. Rough handling of the E-stop may lead to damage of these magnets. Touch and collision errors are often caused by dust and dirt accumulated in the E-stop. To prevent E-stop failure, the customer shall always mount the probe to the DAE carefully and keep the DAE unit in a non-dusty environment if not used for measurements.

Repair: Minor repairs are performed at no extra cost during the annual calibration. However, SPEAG reserves the right to charge for any repair especially if rough unprofessional handling caused the defect.

DASY Configuration Files: Since the exact values of the DAE input resistances, as measured during the calibration procedure of a DAE unit, are not used by the DASY software, a nominal value of 200 MOhm is given in the corresponding configuration file.

Important Note:

Warranty and calibration is void if the DAE unit is disassembled partly or fully by the Customer.

Important Note:

Never attempt to grease or oil the E-stop assembly. Cleaning and readjusting of the Estop assembly is allowed by certified SPEAG personnel only and is part of the annual calibration procedure.

Important Note:

To prevent damage of the DAE probe connector pins, use great care when installing the probe to the DAE. Carefully connect the probe with the connector notch oriented in the mating position. Avoid any rotational movement of the probe body versus the DAE while turning the locking nut of the connector. The same care shall be used when disconnecting the probe from the DAE.

Schmid & Partner Engineering

TN_BR040315AD DAE4.doc

11.12.2009

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





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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

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Client

Sporton (Auden)

Certificate No: DAE4-1303_Nov11

| CALIBRATION C | ERTIFICATE | 对于"是是一个" | |
|---------------------------------------|--------------------------------------|---|---------------------------------------|
| Object | DAE4 - SD 000 D | 04 BJ - SN: 1303 | |
| Calibration procedure(s) | QA CAL-06.v23 Calibration proceed | dure for the data acquisition | n electronics (DAE) |
| Calibration date: | November 10, 20 | 11 | |
| The measurements and the unce | rtainties with confidence pro | nal standards, which realize the physobability are given on the following par rfacility: environment temperature (2: | iges and are part of the certificate. |
| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
| Keithley Multimeter Type 2001 | SN: 0810278 | 28-Sep-11 (No:11450) | Sep-12 |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| Calibrator Box V1.1 | SE UMS 006 AB 1004 | | In house check: Jun-12 |
| Calibrated by: | Name Andrea Guntli | Function Technician | Signature |
| Approved by: | Fin Bomholt | R&D Director | i, V. Blund |
| This calibration certificate shall no | at be reproduced except in f | ull without written approval of the labo | Issued: November 10, 2011 |

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Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 108

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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.
 - 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.

DC Voltage Measurement A/D - Converter Resolution nominal

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

| Calibration Factors | X | Y | Z |
|---------------------|----------------------|----------------------|----------------------|
| High Range | 405.540 ± 0.1% (k=2) | 403.440 ± 0.1% (k=2) | 404.880 ± 0.1% (k=2) |
| Low Range | 3.96478 ± 0.7% (k=2) | 3.99094 ± 0.7% (k=2) | 3.98659 ± 0.7% (k=2) |

Connector Angle

| Connector Angle to be used in DASY system | 98.0 ° ± 1 ° |
|---|--------------|
| Connector Angle to be used in DAGT system | 96.0 I |

Appendix

1. DC Voltage Linearity

| High Range | Reading (μV) | Difference (μV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 199991.5 | 0.55 | 0.00 |
| Channel X + Input | 20001.05 | 1.85 | 0.01 |
| Channel X - Input | -19998.05 | 1.05 | -0.01 |
| Channel Y + Input | 199999.7 | 1.22 | 0.00 |
| Channel Y + Input | 19998.99 | -1.81 | -0.01 |
| Channel Y - Input | -19999.45 | -0.05 | 0.00 |
| Channel Z + Input | 199999.8 | 2.58 | 0.00 |
| Channel Z + Input | 19998.62 | -2.08 | -0.01 |
| Channel Z - Input | -20000.66 | -1.46 | 0.01 |

| Low Range | Reading (μV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 2000.2 | 0.42 | 0.02 |
| Channel X + Input | 200.40 | 0.50 | 0.25 |
| Channel X - Input | -199.78 | 0.12 | -0.06 |
| Channel Y + Input | 2000.2 | 0.14 | 0.01 |
| Channel Y + Input | 199.51 | -0.59 | -0.29 |
| Channel Y - Input | -200.62 | -0.72 | 0.36 |
| Channel Z + Input | 1999.8 | -0.34 | -0.02 |
| Channel Z + Input | 199.52 | -0.38 | -0.19 |
| Channel Z - Input | -201.03 | -1.03 | 0.51 |

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 | 8.61 | 7.05 |
| | - 200 | -5.72 | -7.64 |
| Channel Y | 200 | 5.57 | 5.59 |
| | - 200 | -7.50 | -7.56 |
| Channel Z | 200 | -3.76 | -4.32 |
| | - 200 | 1.32 | 1.78 |

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 | | 3.28 | -0.13 |
| Channel Y | 200 | 2.85 | | 4.47 |
| Channel Z | 200 | 1.85 | -0.35 | 14 |

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 | 15918 | 16080 |
| Channel Y | 15626 | 16237 |
| Channel Z | 16154 | 16086 |

5. Input Offset Measurement

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

| | Average (μV) | min. Offset (μV) | max. Offset (μV) | Std. Deviation (µV) |
|-----------|--------------|------------------|------------------|---------------------|
| Channel X | -0.19 | -0.92 | 0.71 | 0.28 |
| Channel Y | -1.87 | -3.04 | 0.07 | 0.39 |
| Channel Z | -0.56 | -1.71 | 1.44 | 0.58 |

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 | -0 |

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Client

Sporton (Auden)

Accreditation No.: SCS 108

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S

Certificate No: EX3-3819_Nov11

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3819

Calibration procedure(s)

QA CAL-01.v8, QA CAL-14.v3, QA CAL-23.v4, QA CAL-25.v4 Calibration procedure for dosimetric E-field probes

Calibration date:

November 16, 2011

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 E4419B | GB41293874 | 31-Mar-11 (No. 217-01372) | Apr-12 |
| Power sensor E4412A | MY41498087 | 31-Mar-11 (No. 217-01372) | Apr-12 |
| Reference 3 dB Attenuator | SN: S5054 (3c) | 29-Mar-11 (No. 217-01369) | Apr-12 |
| Reference 20 dB Attenuator | SN: S5086 (20b) | 29-Mar-11 (No. 217-01367) | Apr-12 |
| Reference 30 dB Attenuator | SN: S5129 (30b) | 29-Mar-11 (No. 217-01370) | Apr-12 |
| Reference Probe ES3DV2 | SN: 3013 | 29-Dec-10 (No. ES3-3013_Dec10) | Dec-11 |
| DAE4 | SN: 654 | 3-May-11 (No. DAE4-654_May11) | May-12 |
| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
| RF generator HP 8648C | US3642U01700 | 4-Aug-99 (in house check Apr-11) | In house check: Apr-13 |
| Network Analyzer HP 8753E | US37390585 | 18-Oct-01 (in house check Oct-11) | In house check: Oct-12 |

Name Function Signature Calibrated by: Jeton Kastrati Laboratory Technician Approved by: Katja Pokovic Technical Manager Issued: November 16, 2011

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Glossary:

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 modulation dependent linearization parameters

Polarization 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

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003

 IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization θ = 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
 sharesteristics.
- Ax,y,z; Bx,y,z; Cx,y,z, VRx,y,z: A, B, C 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.

Certificate No: EX3-3819_Nov11

Page 2 of 11

EX3DV4 - SN:3819 November 16, 2011

Probe EX3DV4

SN:3819

Manufactured: Calibrated:

September 2, 2011 November 16, 2011

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3819

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) | |
|--------------------------|----------|----------|----------|-----------|--|
| Norm $(\mu V/(V/m)^2)^A$ | 0.49 | 0.37 | 0.52 | ± 10.1 % | |
| DCP (mV) ^B | 100.1 | 104.6 | 99.8 | | |

Modulation Calibration Parameters

| UID | Communication System Name | PAR | | A dB | B dB | C dB | VR mV | Unc ^E (k=2) |
|-------|---------------------------|------|--------|---------|---------|---------|----------|---------------------------|
| 10000 | CW | 0.00 | X 0.00 | 0.00 | 1.00 | 114.7 | ±3.0 % | |
| | | | Y | 0.00 | 0.00 | 1.00 | 98.7 | |
| | | | Z | 0.00 | 0.00 | 1.00 | 114.5 | |

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 NomX,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

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 field value.

November 16, 2011 EX3DV4-SN:3819

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3819

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 | Depth (mm) | Unct. (k=2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|-------|---------------|----------------|
| 750 | 41.9 | 0.89 | 9.82 | 9.82 | 9.82 | 0.75 | 0.68 | ± 12.0 % |
| 835 | 41.5 | 0.90 | 9.40 | 9.40 | 9.40 | 0.70 | 0.72 | ± 12.0 % |
| 900 | 41.5 | 0.97 | 9.32 | 9.32 | 9.32 | 0.80 | 0.63 | ± 12.0 % |
| 1750 | 40.1 | 1.37 | 8.69 | 8.69 | 8.69 | 0.74 | 0.64 | ± 12.0 % |
| 1900 | 40.0 | 1.40 | 8.36 | 8.36 | 8.36 | 0.80 | 0.60 | ± 12.0 % |
| 2000 | 40.0 | 1.40 | 8.26 | 8.26 | 8.26 | 0.80 | 0.59 | ± 12.0 % |
| 2450 | 39.2 | 1.80 | 7.33 | 7.33 | 7.33 | 0.80 | 0.57 | ± 12.0 % |
| 2600 | 39.0 | 1.96 | 7.33 | 7.33 | 7.33 | 0.77 | 0.61 | ± 12.0 % |
| 5200 | 36.0 | 4.66 | 5.07 | 5.07 | 5.07 | 0.40 | 1.80 | ± 13.1 % |
| 5300 | 35.9 | 4.76 | 4.71 | 4.71 | 4.71 | 0.42 | 1.80 | ± 13.1 % |
| 5500 | 35.6 | 4.96 | 4.74 | 4.74 | 4.74 | 0.42 | 1.80 | ± 13.1 % |
| 5800 | 35.3 | 5.27 | 4.47 | 4.47 | 4.47 | 0.45 | 1.80 | ± 13.1 % |

^C Frequency validity of \pm 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to \pm 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

F At frequencies below 3 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. 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.

EX3DV4-SN:3819 November 16, 2011

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3819

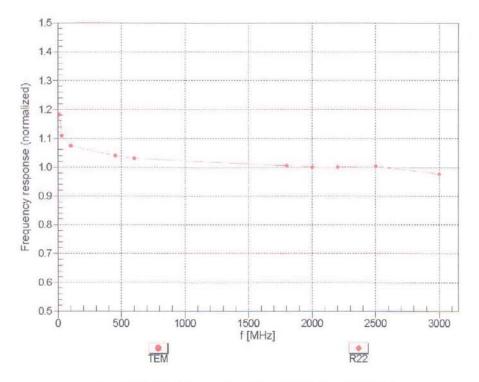
Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity F | Conductivity (S/m) ^F | ConvF X | ConvF Y | ConvF Z | Alpha | Depth (mm) | Unct. (k=2) |
|----------------------|----------------------------|------------------------------------|---------|---------|---------|-------|---------------|----------------|
| 750 | 55.5 | 0.96 | 9.81 | 9.81 | 9.81 | 0.78 | 0.66 | ± 12.0 % |
| 835 | 55.2 | 0.97 | 9.72 | 9.72 | 9.72 | 0.80 | 0.66 | ± 12.0 % |
| 900 | 55.0 | 1.05 | 9.43 | 9.43 | 9.43 | 0.67 | 0.73 | ± 12.0 % |
| 1750 | 53.4 | 1.49 | 8.00 | 8.00 | 8.00 | 0.80 | 0.59 | ± 12.0 % |
| 1900 | 53.3 | 1,52 | 7.71 | 7.71 | 7.71 | 0.80 | 0.58 | ± 12.0 % |
| 2000 | 53.3 | 1.52 | 7.93 | 7.93 | 7.93 | 0.65 | 0.66 | ± 12.0 % |
| 2450 | 52.7 | 1.95 | 7.40 | 7.40 | 7.40 | 0.80 | 0.50 | ± 12.0 % |
| 2600 | 52.5 | 2.16 | 7.26 | 7.26 | 7.26 | 0.77 | 0.57 | ± 12.0 % |
| 5200 | 49.0 | 5.30 | 4.48 | 4.48 | 4.48 | 0.50 | 1.90 | ± 13.1 % |
| 5300 | 48.9 | 5.42 | 4.24 | 4.24 | 4.24 | 0.52 | 1.90 | ± 13.1 % |
| 5500 | 48.6 | 5.65 | 3.90 | 3.90 | 3.90 | 0.55 | 1.90 | ± 13.1 % |
| 5800 | 48.2 | 6.00 | 4.02 | 4.02 | 4.02 | 0.60 | 1.90 | ± 13.1 % |

^C Frequency validity 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.

F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) 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 (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

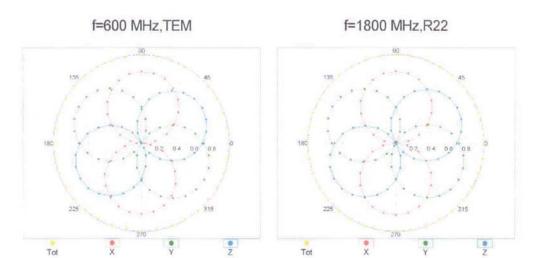
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

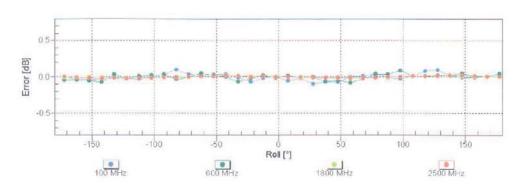


Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

EX3DV4- SN:3819 November 16, 2011

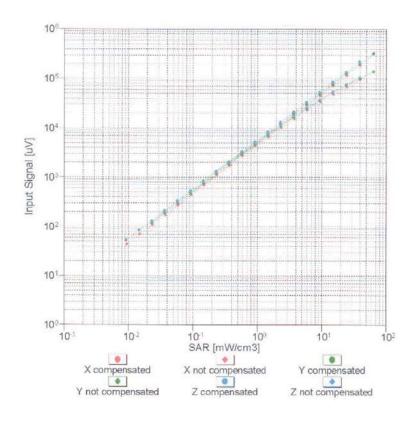
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

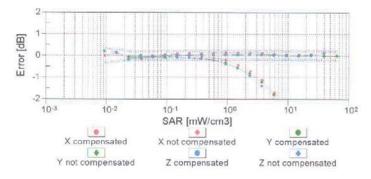




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR_{head}) (TEM cell , f = 900 MHz)

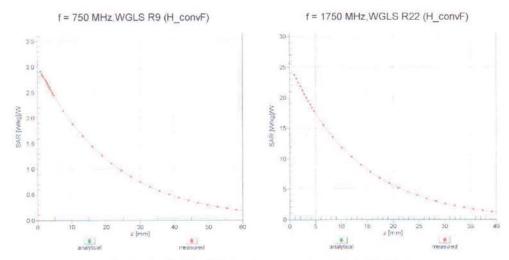




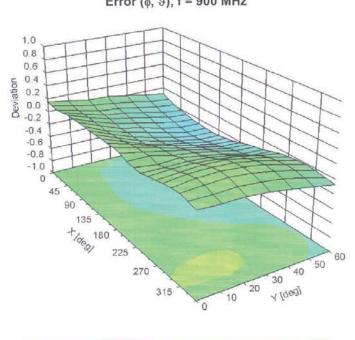
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

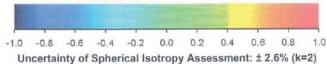
EX3DV4-SN:3819 November 16, 2011

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ , ϑ), f = 900 MHz





DASY/EASY - Parameters of Probe: EX3DV4 - SN:3819

Other Probe Parameters

| Sensor Arrangement | Triangular | | |
|---|----------------|--|--|
| Connector Angle (°) | Not applicable | | |
| Mechanical Surface Detection Mode | enabled | | |
| Optical Surface Detection Mode | disable | | |
| Probe Overall Length | 337 m | | |
| 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 | 2 mm | | |