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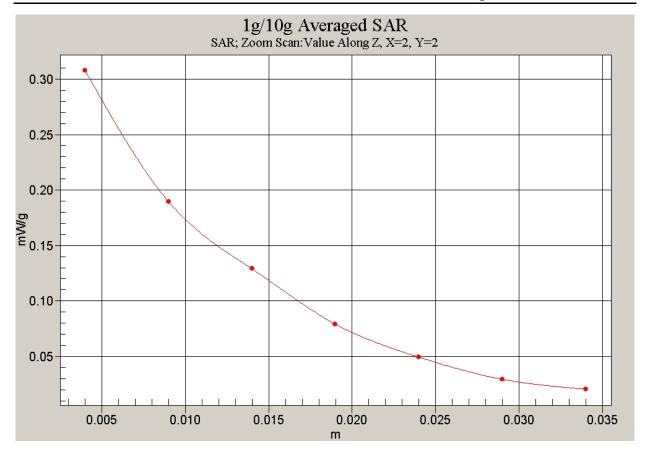


Fig. 10 Z-Scan at power reference point (PCS 1900MHz CH661)

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1900 Left Tilt Low

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz Frequency: 1850.2 MHz Duty Cycle: 1:8.3

Probe: ET3DV6 - SN1736 ConvF(5.4, 5.4, 5.4)

Tilt Low/Area Scan (51x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.230 mW/g

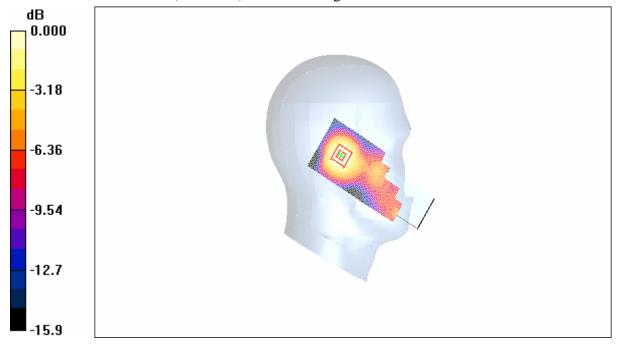
Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = 0.067 dB

Peak SAR (extrapolated) = 0.313 W/kg

SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.121 mW/g

Maximum value of SAR (measured) = 0.215 mW/g



 $0\ dB=0.215mW/g$

Fig. 11 Left Hand Tilt 15°PCS 1900MHz CH512

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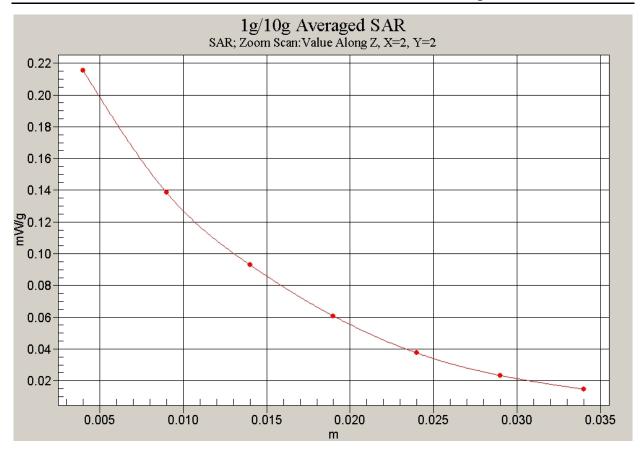


Fig. 12 Z-Scan at power reference point (PCS 1900MHz CH512)

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1900 Right Cheek High

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz Frequency: 1909.8 MHz Duty Cycle: 1:8.3

Probe: ET3DV6 - SN1736 ConvF(5.4, 5.4, 5.4)

Cheek High/Area Scan (51x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.43 mW/g

Cheek High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

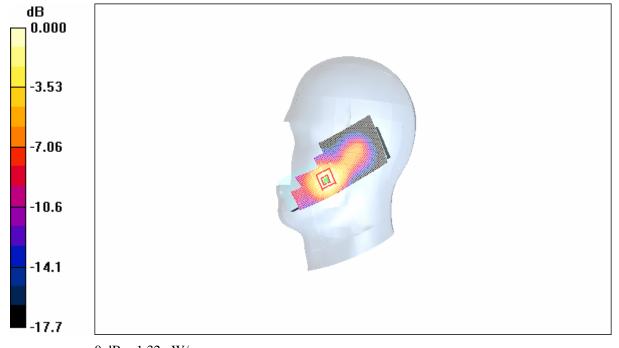
dz=5mm

Reference Value = 8.78 V/m; Power Drift = -0.200 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.675 mW/g

Maximum value of SAR (measured) = 1.32 mW/g



 $0\ dB=1.32mW/g$

Fig. 13 Right Hand Touch Cheek PCS 1900MHz CH810

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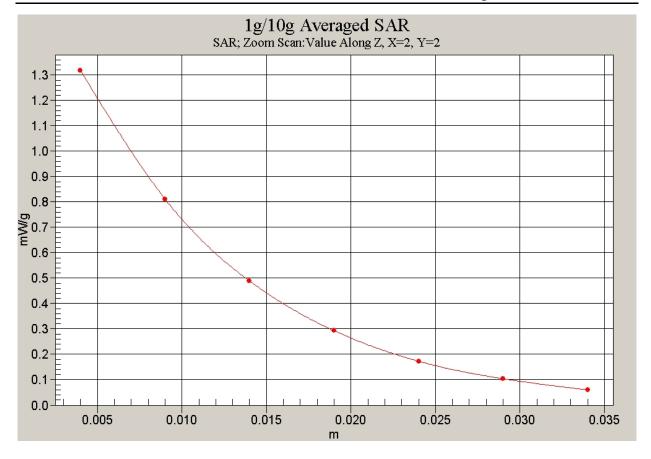


Fig. 14 Z-Scan at power reference point (PCS 1900MHz CH810)

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1900 Right Cheek Middle

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: ET3DV6 - SN1736 ConvF(5.4, 5.4, 5.4)

Cheek Middle/Area Scan (51x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.38 mW/g

Cheek Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

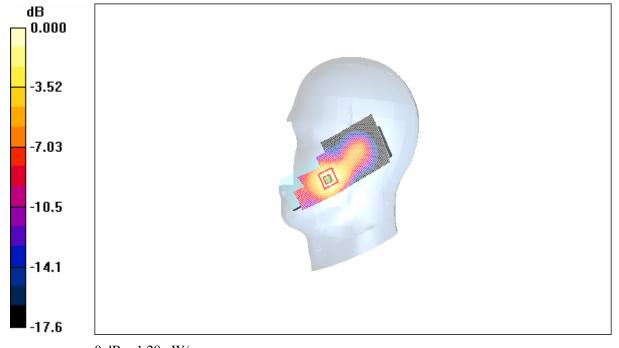
dz=5mm

Reference Value = 8.36 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.660 mW/g

Maximum value of SAR (measured) = 1.28 mW/g



0 dB = 1.28 mW/g

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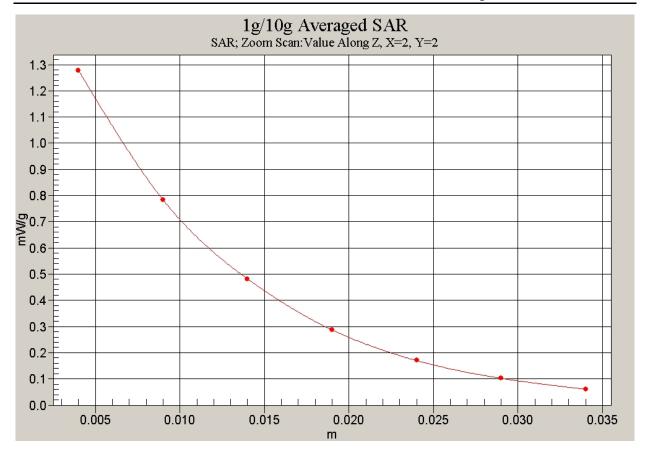


Fig. 16 Z-Scan at power reference point (PCS 1900MHz CH661)

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1900 Right Cheek Low

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz Frequency: 1850.2 MHz Duty Cycle: 1:8.3

Probe: ET3DV6 - SN1736 ConvF(5.4, 5.4, 5.4)

Cheek Low/Area Scan (51x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.06 mW/g

Cheek Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

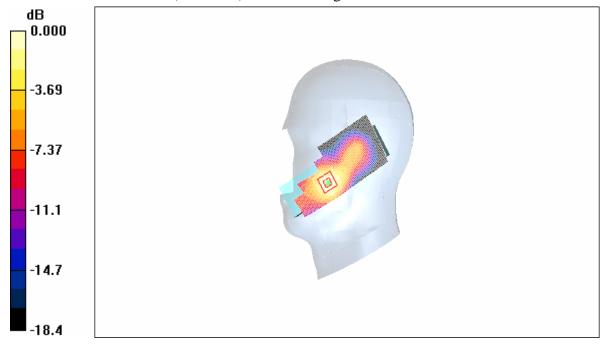
dz=5mm

Reference Value = 8.23 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.905 mW/g; SAR(10 g) = 0.509 mW/g

Maximum value of SAR (measured) = 0.990 mW/g



0 dB = 0.990 mW/g

Fig. 17 Right Hand Touch Cheek PCS 1900MHz CH512

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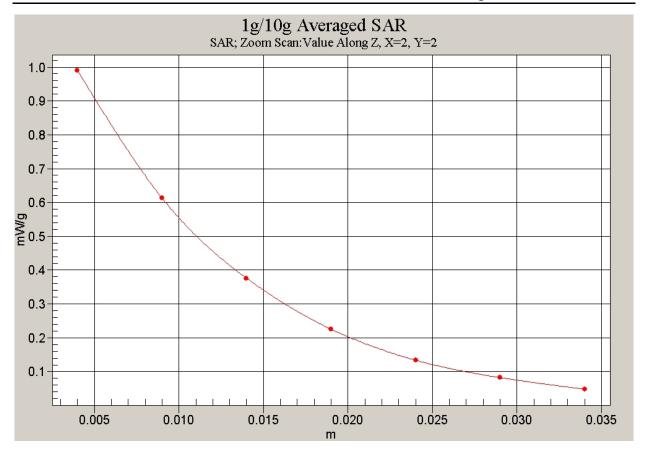


Fig. 18 Z-Scan at power reference point (PCS 1900MHz CH512)

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1900 Right Tilt High

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz Frequency: 1909.8 MHz Duty Cycle: 1:8.3

Probe: ET3DV6 - SN1736 ConvF(5.4, 5.4, 5.4)

Tilt High/Area Scan (51x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.392 mW/g

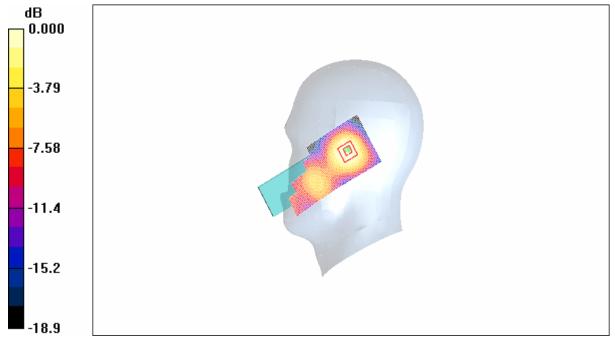
Tilt High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 0.523 W/kg

SAR(1 g) = 0.332 mW/g; SAR(10 g) = 0.197 mW/g

Maximum value of SAR (measured) = 0.363 mW/g



0 dB = 0.363 mW/g

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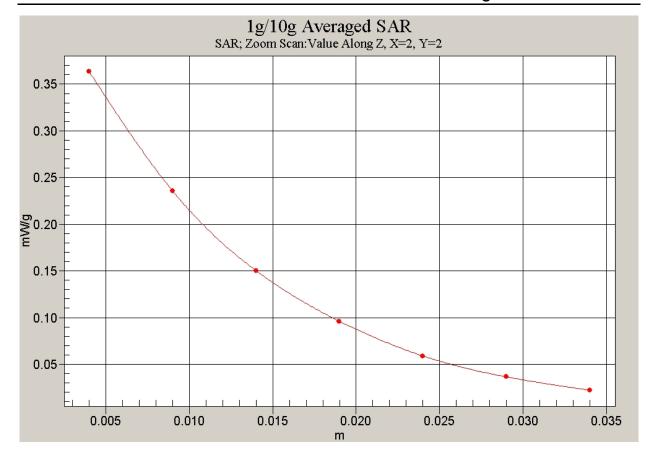


Fig. 20 Z-Scan at power reference point (PCS 1900MHz CH810)

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1900 Right Tilt Middle

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: ET3DV6 - SN1736 ConvF(5.4, 5.4, 5.4)

Tilt Middle/Area Scan (51x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.361 mW/g

Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

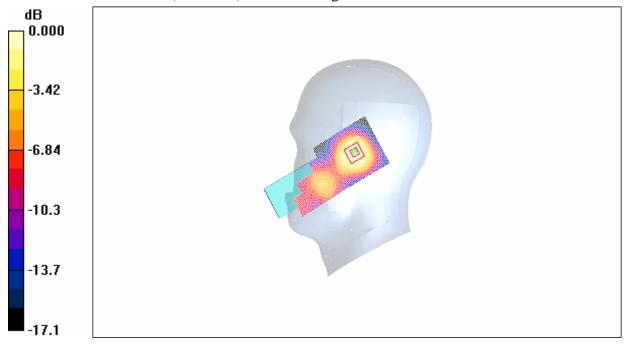
dz=5mm

Reference Value = 11.2 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.446 W/kg

SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 0.319 mW/g



0 dB = 0.319 mW/g

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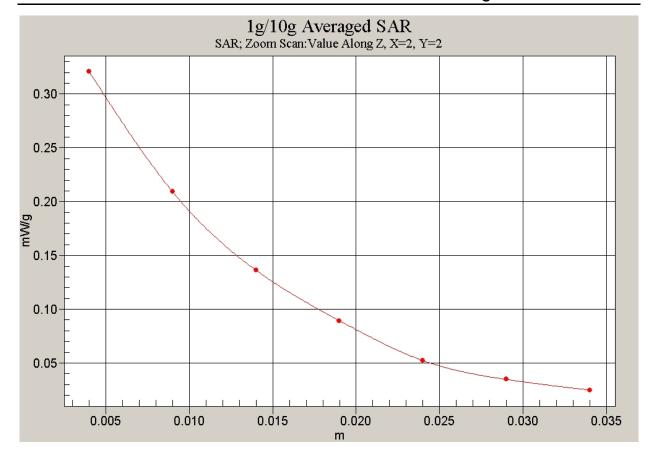


Fig. 22 Z-Scan at power reference point (PCS 1900MHz CH661)

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1900 Right Tilt Low

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz Frequency: 1850.2 MHz Duty Cycle: 1:8.3

Probe: ET3DV6 - SN1736 ConvF(5.4, 5.4, 5.4)

Tilt Low/Area Scan (51x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.245 mW/g

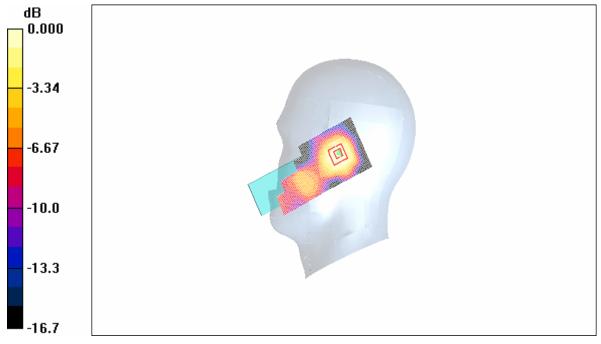
Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.16 V/m; Power Drift = 0.102 dB

Peak SAR (extrapolated) = 0.312 W/kg

SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.124 mW/g

Maximum value of SAR (measured) = 0.225 mW/g



0~dB=0.225mW/g

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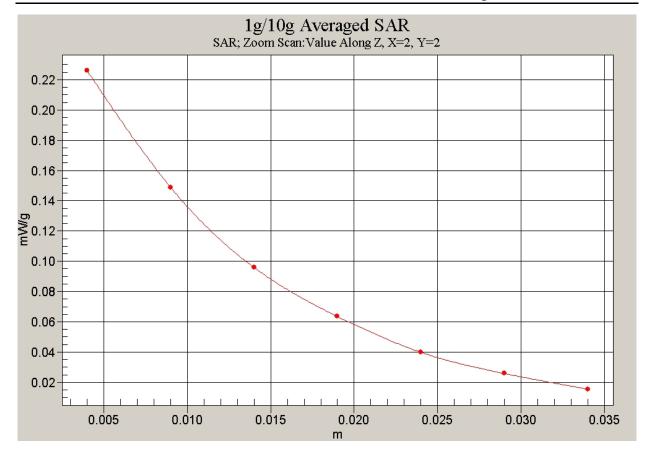


Fig. 24 Z-Scan at power reference point (PCS 1900MHz CH512)

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1900 Body Toward Ground High

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz Frequency: 1909.8 MHz Duty Cycle: 1:8.3

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

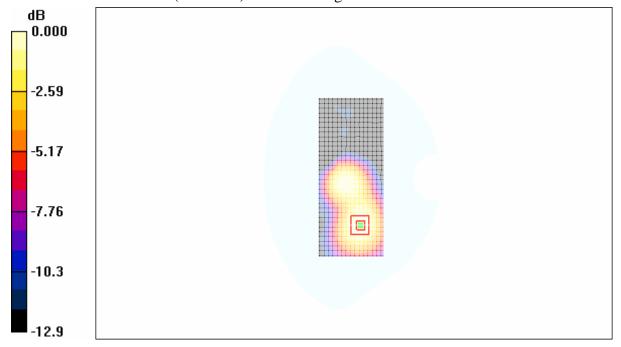
Toward Ground High/Area Scan (81x181x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.315 mW/g

Toward Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.6 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.457 W/kg

SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.186 mW/gMaximum value of SAR (measured) = 0.313 mW/g



 $0\ dB=0.313mW/g$

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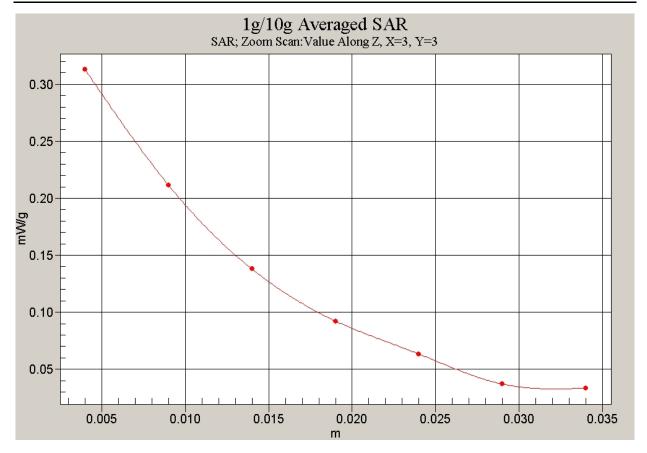


Fig. 26 Z-Scan at power reference point (PCS 1900MHz, Body Towards Ground, CH810)

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1900 Body Toward Ground Middle

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Toward Ground Middle/Area Scan (81x181x1): Measurement grid: dx=10mm,

dy=10mm

Maximum value of SAR (interpolated) = 0.303 mW/g

Toward Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

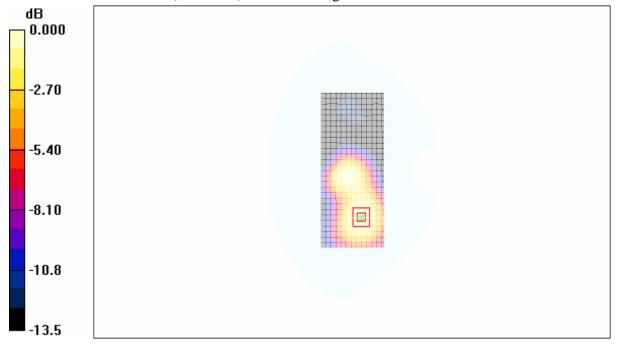
dy=5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.458 W/kg

SAR(1 g) = 0.280 mW/g; SAR(10 g) = 0.178 mW/g

Maximum value of SAR (measured) = 0.298 mW/g



 $0\ dB=0.298mW/g$

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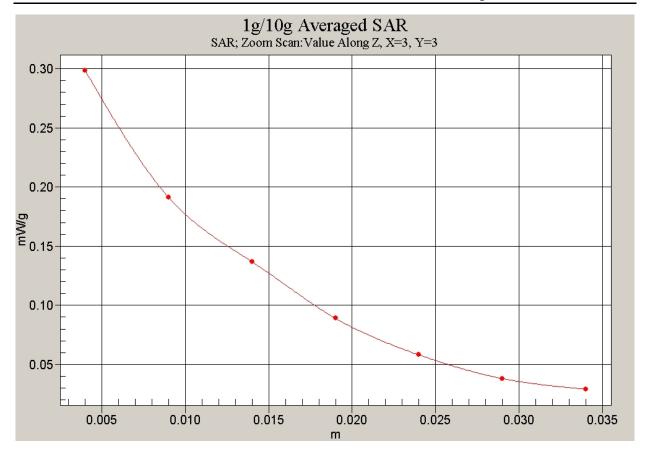


Fig. 28 Z-Scan at power reference point (PCS 1900MHz, Body Towards Ground, CH661)

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1900 Body Toward Ground Low

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz Frequency: 1850.2 MHz Duty Cycle: 1:8.3

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

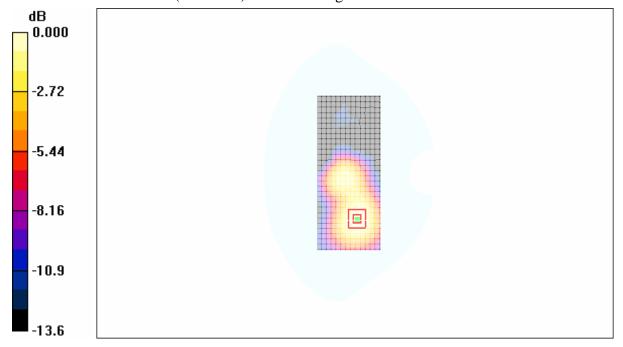
Toward Ground Low/Area Scan (81x181x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.214 mW/g

Toward Ground Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.4 V/m; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 0.309 W/kg

SAR(1 g) = 0.202 mW/g; SAR(10 g) = 0.129 mW/gMaximum value of SAR (measured) = 0.217 mW/g



0 dB = 0.217 mW/g

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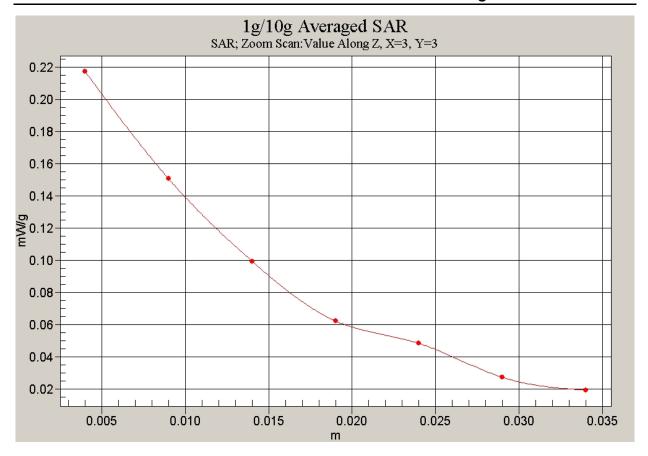


Fig. 30 Z-Scan at power reference point (PCS 1900MHz, Body Towards Ground, CH512)

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1900 Body Toward Ground High with GPRS

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz GPRS Frequency: 1909.8 MHz Duty Cycle: 1:4

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

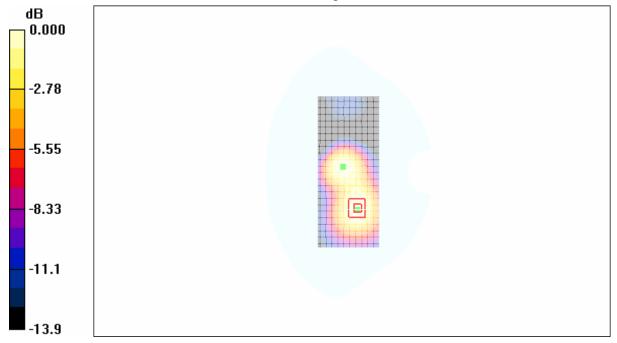
Toward Ground High/Area Scan (81x181x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.573 mW/g

Toward Ground High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.9 V/m; Power Drift = -0.126 dB

Peak SAR (extrapolated) = 0.886 W/kg

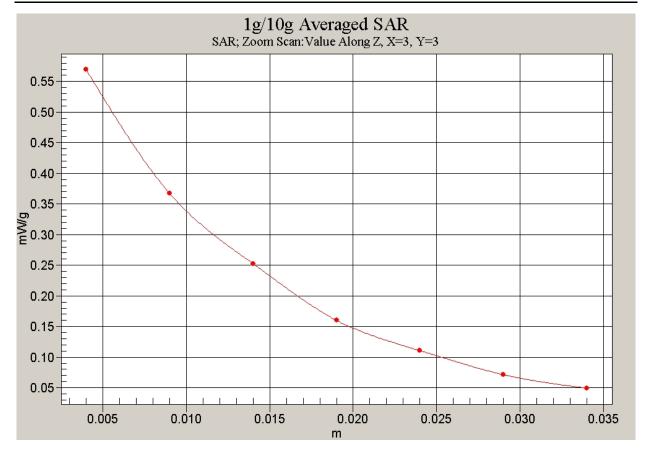
SAR(1 g) = 0.535 mW/g; SAR(10 g) = 0.335 mW/gMaximum value of SAR (measured) = 0.569 mW/g



 $0\ dB=0.569mW/g$

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1900 Body Toward Ground Middle with GPRS

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:4

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

Toward Ground Middle/Area Scan (81x181x1): Measurement grid: dx=10mm,

dy=10mm

Maximum value of SAR (interpolated) = 0.544 mW/g

Toward Ground Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

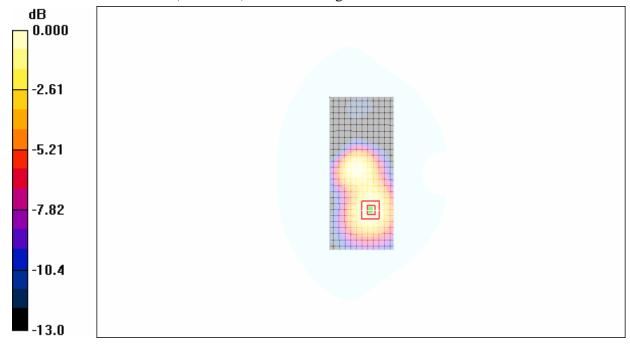
dy=5mm, dz=5mm

Reference Value = 18.0 V/m; Power Drift = -0.039 dB

Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.508 mW/g; SAR(10 g) = 0.322 mW/g

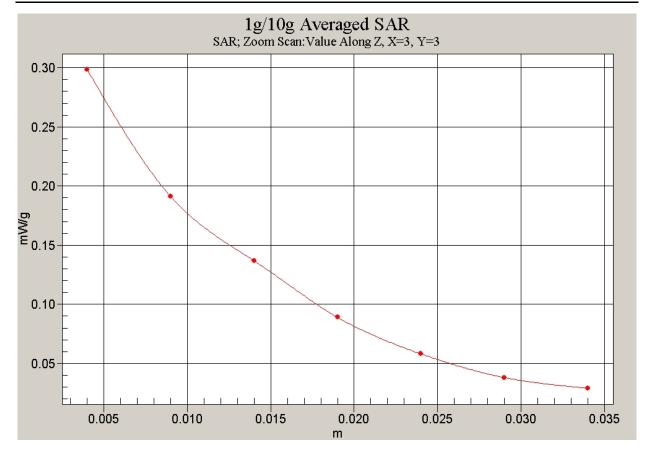
Maximum value of SAR (measured) = 0.544 mW/g



 $0\ dB = 0.544 mW/g$

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1900 Body Toward Ground Low with GPRS

Electronics: DAE3 Sn536

Communication System: GSM 1900MHz GPRS Frequency: 1850.2 MHz Duty Cycle: 1:4

Probe: ET3DV6 - SN1736 ConvF(4.88, 4.88, 4.88)

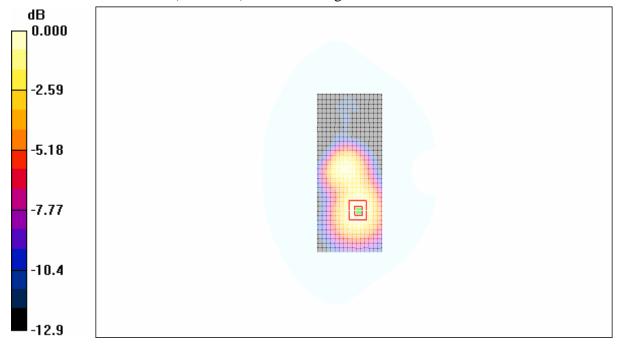
Toward Ground Low/Area Scan (81x181x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 0.389 mW/g

Toward Ground Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.6 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 0.568 W/kg

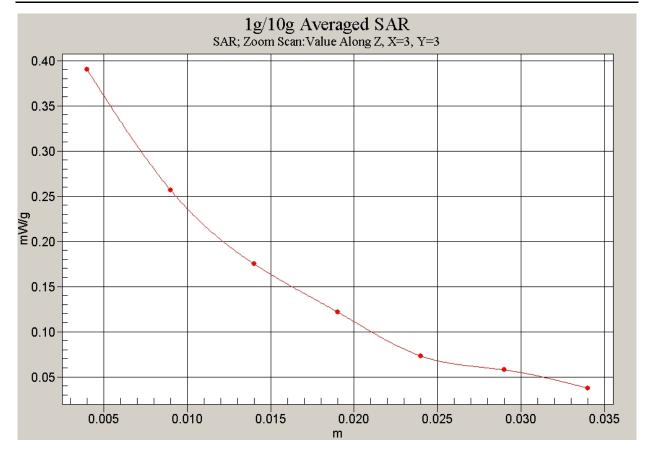
SAR(1 g) = 0.361 mW/g; SAR(10 g) = 0.232 mW/gMaximum value of SAR (measured) = 0.388 mW/g



 $0\ dB=0.388mW/g$

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ANNEX D SYSTEM VALIDATION RESULTS

1900MHzDAE536Probe1736

Electronics: DAE3 Sn536

Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1

Probe: ET3DV6 - SN1736 ConvF(5.4, 5.4, 5.4)

System Validation/Area Scan (101x101x1): Measurement grid: dx=10mm, dy=10mm

Reference Value = 92.1 V/m; Power Drift = 0.1 dB Maximum value of SAR (interpolated) = 11.2 mW/g

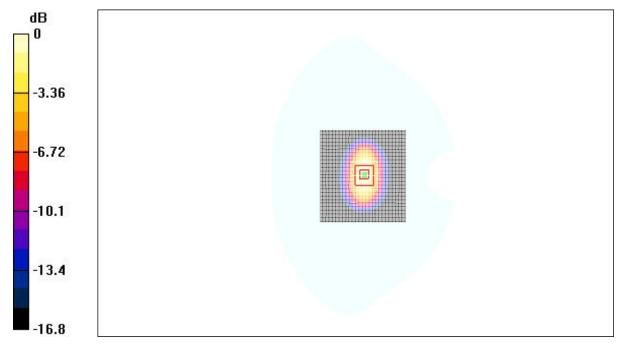
System Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.1 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 11.3 mW/g

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 9.91 mW/g; SAR(10 g) = 5.27 mW/g



0 dB = 11.3 mW/g

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ANNEX E PROBE CALIBRATION CERTIFICATE

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



Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura

Accredited by the Swiss Federal Office of Metrology and Accreditation The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

TMC-Auden

Accreditation No.: SCS 108

Certificate No: ET3-1736_Nov05 **CALIBRATION CERTIFICATE** ET3DV6 - SN:1736 Object QA CAL-01.v5 Calibration procedure(s) Calibration procedure for dosimetric E-field probes November 25, 2005 Calibration date: In Tolerance Condition of the calibrated item 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 Power meter E4419B GB41293874 3-May-05 (METAS, No. 251-00466) May-06 3-May-05 (METAS, No. 251-00466) May-06 MY41495277 Power sensor E4412A May-06 MY41498087 3-May-05 (METAS, No. 251-00466) Power sensor E4412A 3-May-05 (METAS, No. 251-00467) May-06 Reference 20 dB Attenuator SN: S5086 (20b) SN: S5086 (20b) 3-May-05 (METAS, No. 251-00467) May-06 Reference Probe ES3DV2 7-Jan-05 (SPEAG, No. ES3-3013_Jan05) SN: 3013 DAE4 21-Jun-05 (SPEAG, No. DAE4-907_Jun05) SN: 907 Reference Probe ES3DV2 ID# Check Date (in house) Scheduled Check Secondary Standards RF generator HP 8648C US3642U01700 4-Aug-99 (SPEAG, in house check Dec-03) In house check: Dec-05 Network Analyzer HP 8753E US37390585 18-Oct-01 (SPEAG, in house check Nov-04) In house check: Nov 05 Function Name Calibrated by: Nico Vetterli Laboratory Technician Katja Pokovic Technical Manager Approved by: Issued: November 25, 2005 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland

Accredited by the Swiss Federal Office of Metrology and Accreditation
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates



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

Accreditation No.: SCS 108

Glossary:

TSL tissue simulating liquid
NORMx,y,z sensitivity in free space
ConF sensitivity in TSL / NORMx,y,z
DCP diode compression point
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., $\vartheta = 0$ 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

 b) CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001

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 effect 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 (no uncertainty required). DCP does not depend on frequency nor media.
- 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.

November 25, 2005

Probe ET3DV6

SN:1736

Manufactured:

September 27, 2002

Last calibrated:

July 14, 2005

Recalibrated:

November 25, 2005

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

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ET3DV6 SN:1736

November 25, 2005

DASY - Parameters of Probe: ET3DV6 SN:1736

Sensitivity in Free	Diode Compression ^B			
NormX	1.97 ± 10.1%	$\mu V/(V/m)^2$	DCP X	93 mV
NormY	1.75 ± 10.1%	$\mu V/(V/m)^2$	DCP Y	93 mV
Norm7	1 97 + 10 1%	$\mu V/(V/m)^2$	DCP Z	93 mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

900 MHz

Typical SAR gradient: 5 % per mm

Sensor Center	to Phantom Surface Distance	Surface Distance 3.7 mm	
SAR _{be} [%]	Without Correction Algorithm	9.6	5.0
SAR _{be} [%]	With Correction Algorithm	0.1	0.3

TSL

1810 MHz

Typical SAR gradient: 10 % per mm

Sensor Cente	er to Phantom Surface Distance	3.7 mm	4.7 mm
SAR _{be} [%]	Without Correction Algorithm	13.2	8.8
SAR _{be} [%]	With Correction Algorithm	0.6	0.1

Sensor Offset

Probe Tip to Sensor Center

2.7 mm

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%.

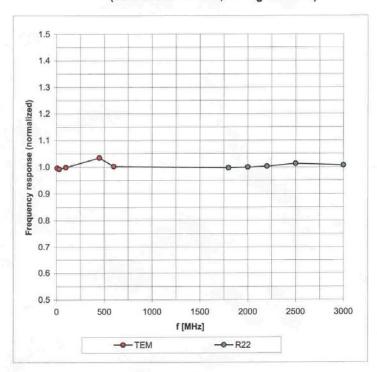
^A The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 8).

^B Numerical linearization parameter: uncertainty not required.

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Frequency Response of E-Field

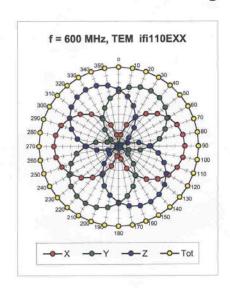
(TEM-Cell:ifi110 EXX, Waveguide: R22)

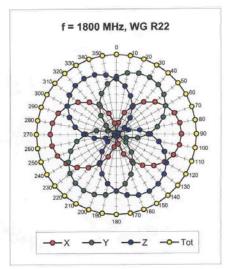


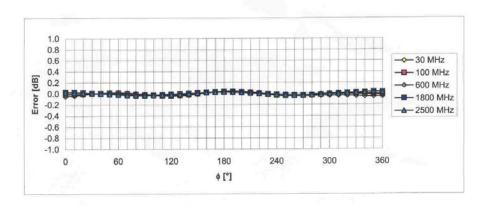
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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





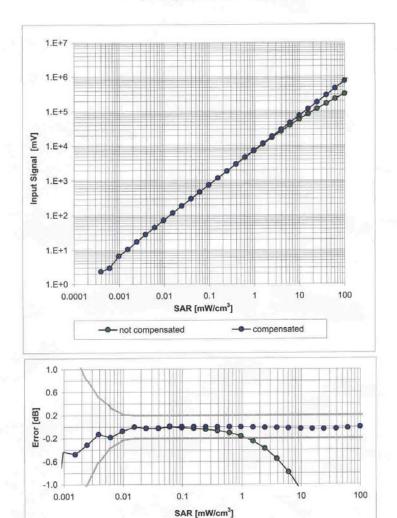


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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Dynamic Range f(SAR_{head})

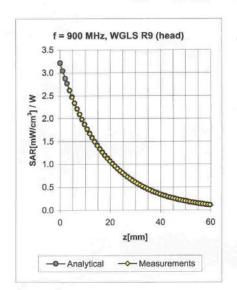
(Waveguide R22, f = 1800 MHz)

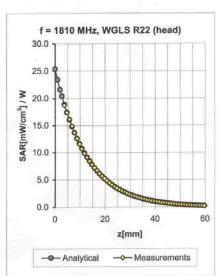


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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Conversion Factor Assessment





f [MHz]	Validity [MHz] ^C	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.56	1.85	6.51 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.57	2.47	5.40 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.62	2.29	4.67 ± 11.8% (k=2)
450	± 50 / ± 100	Body	56.7 ± 5%	0.94 ± 5%	0.12	1.61	7.74 ± 13.3% (k=2)
900	± 50 / ± 100	Body	$55.0 \pm 5\%$	$1.05 \pm 5\%$	0.47	2.15	6.45 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	$1.52 \pm 5\%$	0.53	2.78	4.88 ± 11.0% (k=2)
2450	±50/±100	Body	52.7 ± 5%	1.95 ± 5%	0.65	2.11	4.35 ± 11.8% (k=2)

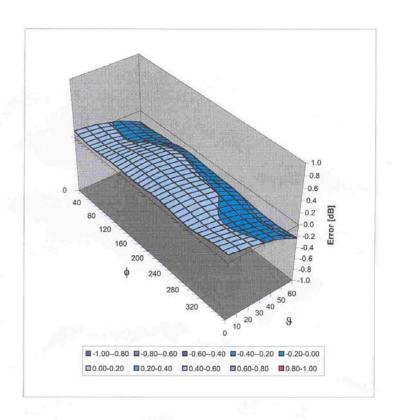
Certificate No: ET3-1736_Nov05

^c The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

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Deviation from Isotropy in HSL

Error (φ, θ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)