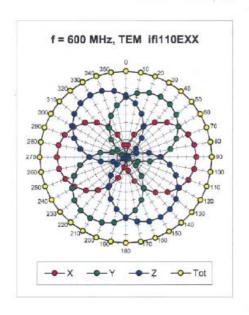
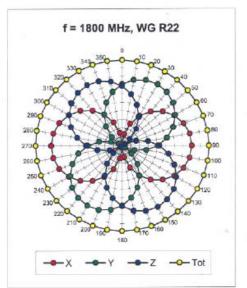
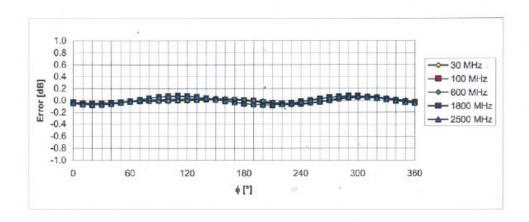
September 26, 2007

Receiving Pattern (ϕ), ϑ = 0°







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

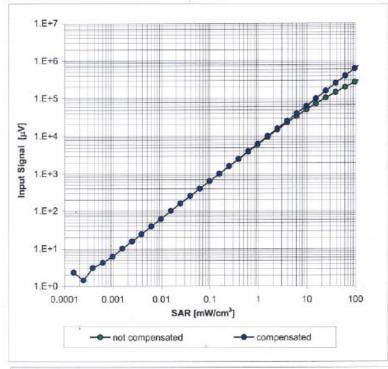
Certificate No: ET3-1788_Sep07

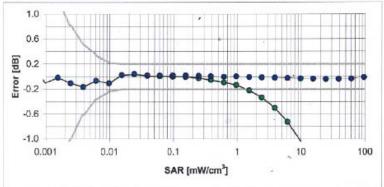
Page 6 of 9

September 26, 2007

Dynamic Range f(SAR_{head})

(Waveguide R22, f = 1800 MHz)





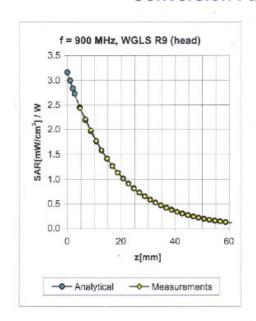
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

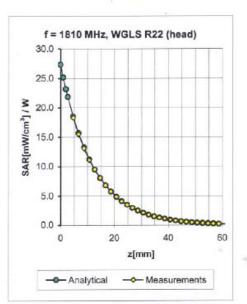
Certificate No: ET3-1788_Sep07

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September 26, 2007

Conversion Factor Assessment





# PM 11-1	Validity [MHz] ^C	TO!	Downstad day	Conductivity.		Denth	Const Headelphi
f [MHz]	validity [Winz]	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	$41.5 \pm 5\%$	$0.97 \pm 5\%$	0.22	3.28	6.54 ± 11.0% (k=2)
1810	± 50 / ± 100	Head	40.0 ± 5%	$1.40 \pm 5\%$	0.59	2.15	5.28 ± 11.0% (k=2)
2000	± 50 / ± 100	Head	40.0 ± 5%	$1.40 \pm 5\%$	0.60	2.23	4.87 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.61	2.39	4.58 ± 11.8% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.28	2.94	6.37 ± 11.0% (k=2)
1810	± 50 / ± 100	Body	53.3 ± 5%	$1.52 \pm 5\%$	0.63	2.39	4.75 ± 11.0% (k=2)
2000	± 50 / ± 100	Body	53.3 ± 5%	$1.52 \pm 5\%$	0.63	2.33	4.36 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	$1.95 \pm 5\%$	0.61	2.58	4.17 ± 11.8% (k=2)

Certificate No: ET3-1788_Sep07

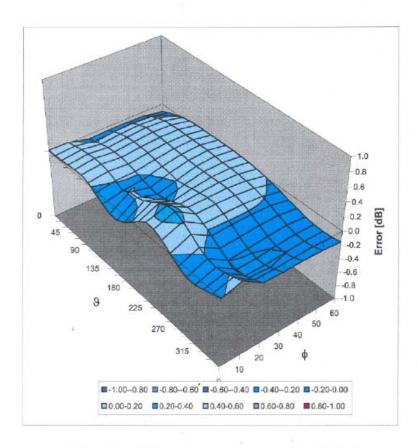
Page 8 of 9

^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.

September 26, 2007

Deviation from Isotropy in HSL

Error (φ, θ), f = 900 MHz



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

Certificate No: ET3-1788_Sep07

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





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

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

Configure No. FX3-3514 Jan08

Accreditation No.: SCS 108

Calibration procedure(s) QA CAL-01.v6 and QA CAL.14.v3 Calibration procedure for dosimetric E-field probes Calibration procedure for dosimetric E-field probes Calibration date: January 31, 2008 In Tolerance Condition of the calibrated item In Tolerance In 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 In # Cal Date (Calibrated by, Cartificate No.) Scheduled Calibration Primary Standards In # Cal Date (Calibrated by, Cartificate No.) Scheduled Calibration Primary Standards In # Cal Date (Calibrated by, Cartificate No.) Scheduled Calibration Primary Standards In # Cal Date (Calibrated by, Cartificate No.) Scheduled Calibration Mar-08 Reference 3 dB Attenuator SN: S9584 (32) B-Aug-07 (METAS, No. 217-00670) Mar-08 Reference 3 dB Attenuator SN: S9584 (32) B-Aug-07 (METAS, No. 217-00719) Aug-08 Reference 2 dB Attenuator SN: S9586 (20b) B-Aug-07 (METAS, No. 217-00720) Mar-08 Reference 2 dB Attenuator SN: S9586 (30b) B-Aug-07 (METAS, No. 217-00720) Mar-08 Reference Probe ES3DV2 SN: 3013 2-Jan-08 (SPEAG, No. ES3-3013_Jan08) Jan-09 DAE4 SN: 654 20-Apr-07 (SPEAG, In house check Oct-07) In house check: Oct-09 In house check: Oct-09 Name Function Signature Name Function Name Function Signature Napproved by: Niels Kuster Ouality Manager	lient Sporton (Aude	en)	Certific	ate No: EX3-3514_Jan08				
Calibration procedure(s) QA CAL-01.v6 and QA CAL.14.v3 Calibration procedure for dosimetric E-field probes Calibration procedure for dosimetric E-field probes Calibration procedure for dosimetric E-field probes In Tolerance In Toleranc	CALIBRATION	CERTIFICAT						
Calibration procedure for dosimetric E-field probes Calibration date: January 31, 2008 Condition of the calibrated item In Tolerance 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 (Calibrated by, Certificate No.) Scheduled Calibration Prower mater E4419B GB41293874 29-Mar-07 (METAS, No. 217-00670) Mar-08 Revers ensor E4412A MY41498087 29-Mar-07 (METAS, No. 217-00670) Mar-08 Reference 3 dB Attenuator SN: SS054 (3c) 8-Aug-07 (METAS, No. 217-00719) Aug-08 Reference 20 dB Attenuator SN: SS056 (20b) 29-Mar-07 (METAS, No. 217-00719) Mar-08 Reference 30 dB Attenuator Reference 30 dB Attenuator SN: SS058 (20b) 29-Mar-07 (METAS, No. 217-00719) Aug-08 SN: SS038 (20b) 29-Mar-07 (METAS, No. 217-00719) Aug-08 SN: SS038 (20b) 29-Mar-07 (METAS, No. 217-0071) Aug-08 SN: SS038 (20b) SN: SS038 (Object	EX3DV3 - SN:3514						
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 (Calibrated by, Certificate No.) Scheduled Calibration Prower meter E4419B G841293874 29-Mar-07 (METAS, No. 217-00670) Mar-08 Prower sensor E4412A MY41495277 29-Mar-07 (METAS, No. 217-00670) Mar-08 Reference 30 dB Attenuator SN: \$5054 (3c) 8-Aug-07 (METAS, No. 217-00719) Aug-08 Reference 20 dB Attenuator SN: \$5054 (3c) 8-Aug-07 (METAS, No. 217-00671) Mar-08 Reference 30 dB Attenuator SN: \$5129 (30b) 8-Aug-07 (METAS, No. 217-00671) Mar-08 Reference Probe ES3DV2 SN: 3013 2-Jan-08 (SPEAG, No. E33-3013_Jan08) Jan-09 DAE4 SN: 654 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Apr-08 Secondary Standards ID # Check Date (in house) Scheduled Check Network Analyzer HP 8753E Vision Technical Manager Name Function Signature Calibrated by: Network Analyzer HP 8753E Niels Kuster Quality Manager	Calibration procedure(s)	MANAGEMENT OF THE PARTY OF THE		robes				
This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (S1). 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 (Calibrated by, Certificate No.) Scheduled Calibration Prower mater E4419B G841293874 29-Mar-07 (METAS, No. 217-00670) Mar-08 Prower sensor E4412A MY41495277 29-Mar-07 (METAS, No. 217-00670) Mar-08 Prower sensor E4412A MY41496087 29-Mar-07 (METAS, No. 217-00670) Mar-08 Reference 3 dB Attenuator SN: S5054 (3c) 8-Aug-07 (METAS, No. 217-00670) Mar-08 Reference 20 dB Attenuator SN: S5058 (20b) 29-Mar-07 (METAS, No. 217-00671) Aug-08 Reference 30 dB Attenuator SN: S5086 (20b) 29-Mar-07 (METAS, No. 217-00671) Mar-08 Reference Probe ES3DV2 SN: 3013 2-Jan-08 (SPEAG, No. E33-3013_Jan08) Jan-09 DAE4 SN: 654 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Apr-08 Secondary Standards ID # Check Date (in house) Scheduled Check RF generator HP 8648C US3642U01700 4-Aug-99 (SPEAG, in house check Oct-07) In house check: Oct-09 Name Function Signature Calibrated by: Name Function Signature Calibrated by: Niels Kuster Quality Manager	Calibration date:	January 31, 200	8					
Power mater E4419B Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator Reference 20 dB Attenuator SN: S5086 (20b) Reference 30 dB Attenuator SN: S5086 (20b) Reference 90 dB Attenuator SN: S5129 (30b) Reference Probe ES3DV2 SN: 3013 Reference Probe ES3DV2 DAE4 SN: 654 Check Date (in house) Scheduled Check RF generator HP 8648C NS3642U01700 Network Analyzer HP 8753E Name Function Signature Calibrated by: Niels Kuster Quality Manager Mar-08 Mar-08 Mar-08 RAP-09(METAS, No. 217-00671) Mar-08 RAP-08 REference Probe ES3DV2 SN: 3013 RAP-09 (SPEAG, No. ES3-3013_Jan08) RAP-09 Scheduled Check RF generator HP 8648C US3642U01700 VS3642U01700 VS3	Condition of the calibrated item	In Tolerance						
Power mater E4419B Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator Reference 20 dB Attenuator SN: S5086 (20b) Reference 30 dB Attenuator SN: S5086 (20b) Reference 90 dB Attenuator SN: S5129 (30b) Reference Probe ES3DV2 SN: 3013 Reference Probe ES3DV2 DAE4 SN: 654 Check Date (in house) Scheduled Check RF generator HP 8648C NS3642U01700 Network Analyzer HP 8753E Name Function Signature Calibrated by: Niels Kuster Quality Manager Mar-08 Mar-08 Mar-08 RAP-09(METAS, No. 217-00671) Mar-08 RAP-08 REference Probe ES3DV2 SN: 3013 RAP-09 (SPEAG, No. ES3-3013_Jan08) RAP-09 Scheduled Check RF generator HP 8648C US3642U01700 VS3642U01700 VS3			ory facility: environment temperature (22	± 3)°C and humidity < 70%.				
Cover meter E4419B	Primary Standards	lip#	Cal Date (Calibrated by Certificate	No.) Scheduled Calibration				
MY41498087 29-Mar-07 (METAS, No. 217-00670) Mar-08								
SN: S5054 (3c) S-Aug-07 (METAS, No. 217-00719) Aug-08	ower sensor E4412A	MY41495277						
Reference 20 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference 30 dB Attenuator Reference Probe ES3DV2 SN: S5128 (30b) SN: S5128 (ower sensor E4412A	MY41498087	29-Mar-07 (METAS, No. 217-00670) Mar-08				
Reference 30 dB Attenuator Reference Probe ES3DV2 Reference Probe ES	Reference 3 dB Attenuator	SN: S5054 (3c)	8-Aug-07 (METAS, No. 217-00719)	Aug-08				
Reference Probe ES3DV2 SN: 3013 SN: 654 20-Apr-07 (SPEAG, No. ES3-3013_Jan08) SN: 654 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Apr-08 Recondary Standards ID # Check Date (in house) Scheduled Check US3642U01700 US3642U01700 US37390585 I8-Oct-01 (SPEAG, in house check Oct-07) In house check: Oct-09 In house check: Oct-08 Name Function Signature Ratia Pokovic Technical Manager Niels Kuster Quality Manager	Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-07 (METAS, No. 217-00671) Mar-08				
SN: 654 20-Apr-07 (SPEAG, No. DAE4-654_Apr07) Apr-08 Secondary Standards ID # Check Date (in house) Scheduled Check US3642U01700 4-Aug-99 (SPEAG, in house check Oct-07) In house check: Oct-09 In house check: Oct-09 In house check: Oct-08 Name Function Signature Calibrated by: Niels Kuster Quality Manager	Reference 30 dB Attenuator	SN: S5129 (30b)	8-Aug-07 (METAS, No. 217-00720)	Aug-08				
Secondary Standards ID # Check Date (in house) Scheduled Check RF generator HP 8648C Network Analyzer HP 8753E Name Function Signature Approved by: Niels Kuster Check Date (in house) Scheduled Check 4-Aug-99 (SPEAG, in house check Oct-07) In house check: Oct-09 In house check: Oct-09 In house check: Oct-08 Signature Quality Manager	Reference Probe ES3DV2	SN: 3013	2-Jan-08 (SPEAG, No. ES3-3013_J	an08) Jan-09				
RF generator HP 8648C Network Analyzer HP 8753E US3642U01700 US37390585 VS37390585 VS37390585 Name Function Signature Calibrated by: Niels Kuster Quality Manager	DAE4	SN: 654	20-Apr-07 (SPEAG, No. DAE4-654	Apr07) Apr-08				
Network Analyzer HP 8753E US37390585 18-Oct-01 (SPEAG, In house check Oct-07) In house check: Oct-08 Name Function Signature Calibrated by: Approved by: Niels Kuster Quality Manager	Secondary Standards	ID#	Check Date (in house)	Scheduled Check				
Name Function Signature Katja Pokovic Technical Manager Approved by: Niels Kuster Quality Manager	RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check	Oct-07) In house check: Oct-09				
Approved by: Niels Kuster Quality Manager Quality Manager	Network Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check	Oct-07) In house check: Oct-08				
Approved by: Niels Kuster Quality Manager		CONTRACTOR OF STREET	AND THE RESERVE OF THE PROPERTY OF THE PROPERT	Signature				
1/405	Calibrated by:	Katja Pokovic	Technical Manager	Beille.				
land bound of coop	Approved by:	Niels Kuster	Quality Manager	N/AC.				
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Certificate No: EX3-3514 Jan08

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





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

Swiss Calibration Service

Accreditation No.: SCS 108

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:

TSL NORMx,y,z tissue simulating liquid sensitivity in free space

ConF

sensitivity in TSL / NORMx,y,z

DCP Polarization φ diode compression point 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
- b) 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 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.

Certificate No: EX3-3514 Jan08

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January 31, 2008

Probe EX3DV3

SN:3514

Manufactured: Last calibrated:

Recalibrated:

December 15, 2002

February 21, 2007

January 31, 2008

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3514_Jan08

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January 31, 2008

DASY - Parameters of Probe: EX3DV3 SN:3514

Sensitivity in Free Space^A

Diode Compression^B

NormX	0.650 ± 10.1%	$\mu V/(V/m)^2$	DCP X	95 mV
NormY	0.690 ± 10.1%	$\mu V/(V/m)^2$	DCP Y	93 mV
NormZ	0.580 ± 10.1%	$\mu V/(V/m)^2$	DCP Z	96 mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL

2300 MHz

Typical SAR gradient: 10 % per mm

Sensor Cente	r to Phantom Surface Distance	2.0 mm	3.0 mm
SAR _{be} [%]	Without Correction Algorithm	5.9	3.3
SAR _{be} [%]	With Correction Algorithm	0.5	8.0

TSL

2600 MHz

Typical SAR gradient: 11 % per mm

Sensor Cente	r to Phantom Surface Distance	2.0 mm	3.0 mm
SAR _{be} [%]	Without Correction Algorithm	6.3	3.4
SAR _{be} [%]	With Correction Algorithm	0.1	0.3

Sensor Offset

Probe Tip to Sensor Center

1.0 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%.

Certificate No: EX3-3514_Jan08

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

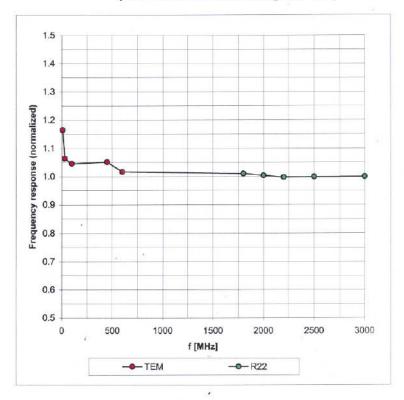
⁸ Numerical linearization parameter: uncertainty not required,



January 31, 2008

Frequency Response of E-Field

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



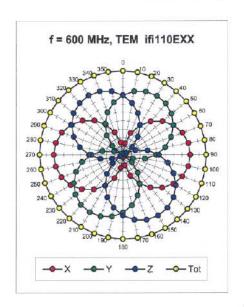
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

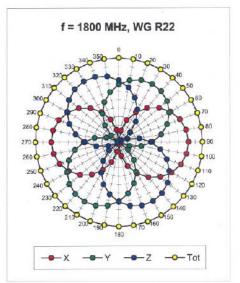
Certificate No: EX3-3514_Jan08

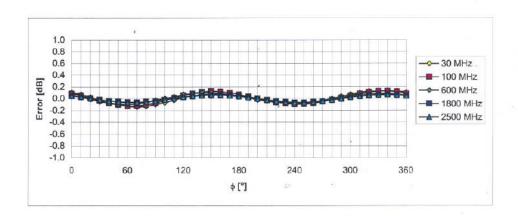
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January 31, 2008

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







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

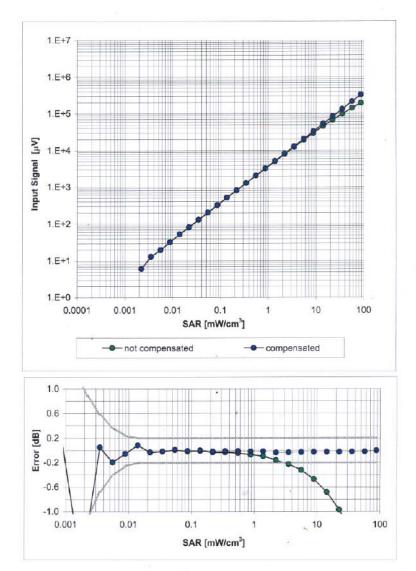
Certificate No: EX3-3514_Jan08

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Dynamic Range f(SAR_{head})

(Waveguide R22, f = 1800 MHz)



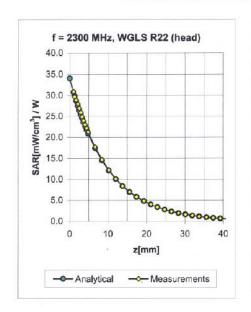
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

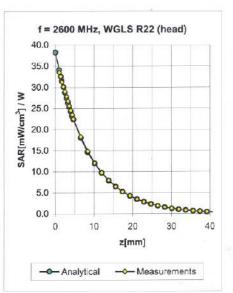
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Conversion Factor Assessment





f [MHz]	Validity [MHz] ^C	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF	Uncertainty
2300	± 50 / ± 100	Head	$39.4 \pm 5\%$	1.71 ± 5%	0.76	0.52	7.73	± 11.8% (k=2)
2600	± 50 / ± 100	Head	39.0 ± 5%	1.96 ± 5%	0.62	0.60	7.31	± 11.8% (k=2)
3500	± 50 / ± 100	Head	37.9 ± 5%	2.91 ± 5%	0.36	1.03	7.09	± 13.1% (k=2)
2300	± 50 / ± 100	Body	$52.8 \pm 5\%$	1.85 ± 5%	0.63	0.64	7.59	± 11.8% (k=2)
2600	± 50 / ± 100	Body	52.5 ± 5%	2.16 ± 5%	0.52	, 0.76	6.91	± 11.8% (k=2)
3500	± 50 / ± 100	Body	51.3 ± 5%	$3.31 \pm 5\%$	0.40	1.33	6.32	± 13.1% (k=2)
5200	± 50 / ± 100	Body	49.0 ± 5%	5.30 ± 5%	0.35	1.70	4.34	± 13.1% (k=2)
5300	± 50 / ± 100	Body	48.9 ± 5%	5.42 ± 5%	0.38	1.70	4.06	± 13.1% (k=2)
5500	± 50 / ± 100	Body	48.6 ± 5%	$5.65 \pm 5\%$	0.43	1.70	3.98	± 13.1% (k=2)
5600	± 50 / ± 100	Body	48.5 ± 5%	5.77 ± 5%	0.35	1.70	4.19	± 13.1% (k=2)
5800	± 50 / ± 100	Body	48.2 ± 5%	6.00 ± 5%	0.30	1.70	4.20	± 13.1% (k=2)

^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.

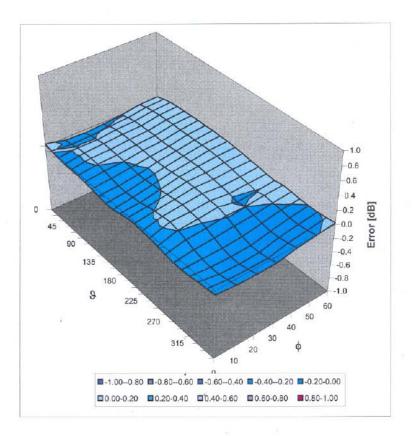
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January 31, 2008

Deviation from Isotropy in HSL

Error (φ, θ), f = 900 MHz



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

Certificate No: EX3-3514_Jan08

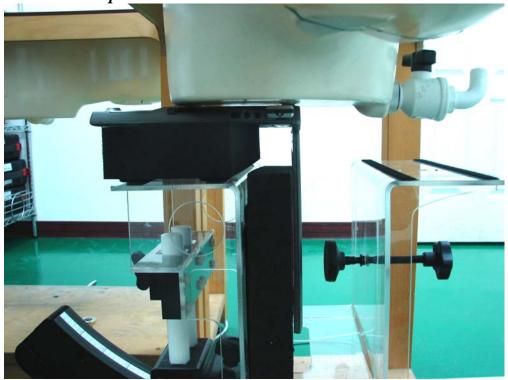
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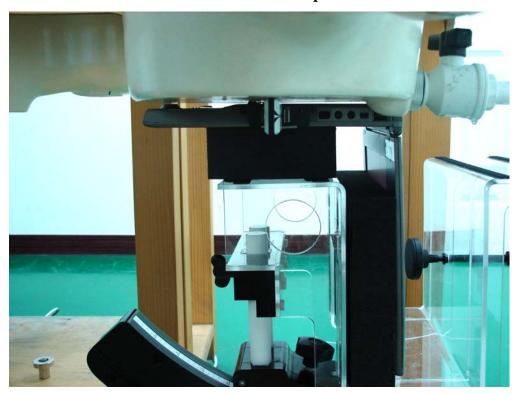
Appendix D - Product Photo



Appendix E - Test Setup Photo



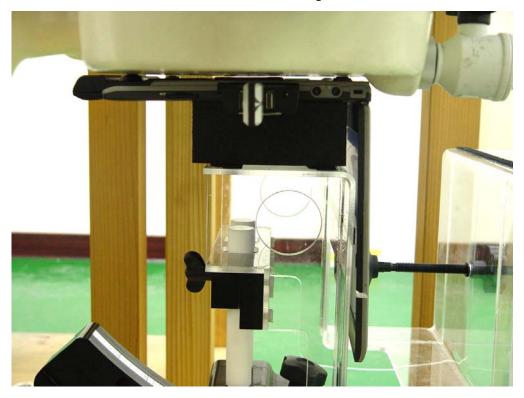
DELL D400 Notebook Bottom with 0cm Gap with Horizontal USB Port



DELL D400 Notebook Bottom with 0cm Gap with Vertical USB Port



DELL D430 Notebook Bottom with 0cm Gap with Horizontal USB Port



DELL D430 Notebook Bottom with 0cm Gap with Vertical USB Port



DELL M2300 Notebook Bottom with 0cm Gap with Horizontal USB Port



DELL M2300 Notebook Bottom with 0cm Gap with Vertical USB Port