

Total M-rating of WCDMA 1700 MHz Band

Date: 9/7/2012

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Ambient Temperature: 22.5°C

Communication System: WCDMA 1700; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Probe: ER3DV6 - SN2480 Probe: H3DV6 - SN6305; ConvF(1, 1, 1)

E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 62.01 V/m; Power Drift = 0.00 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 54.89 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 33.15 V/m	Grid 2 M4 51.98 V/m	Grid 3 M4 52.56 V/m
Grid 4 M4 33.32 V/m	Grid 5 M4 54.11 V/m	Grid 6 M4 54.89 V/m
Grid 7 M4 32.01 V/m	Grid 8 M4 52.30 V/m	Grid 9 M4 52.95 V/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.1420 A/m; Power Drift = -0.01 dB

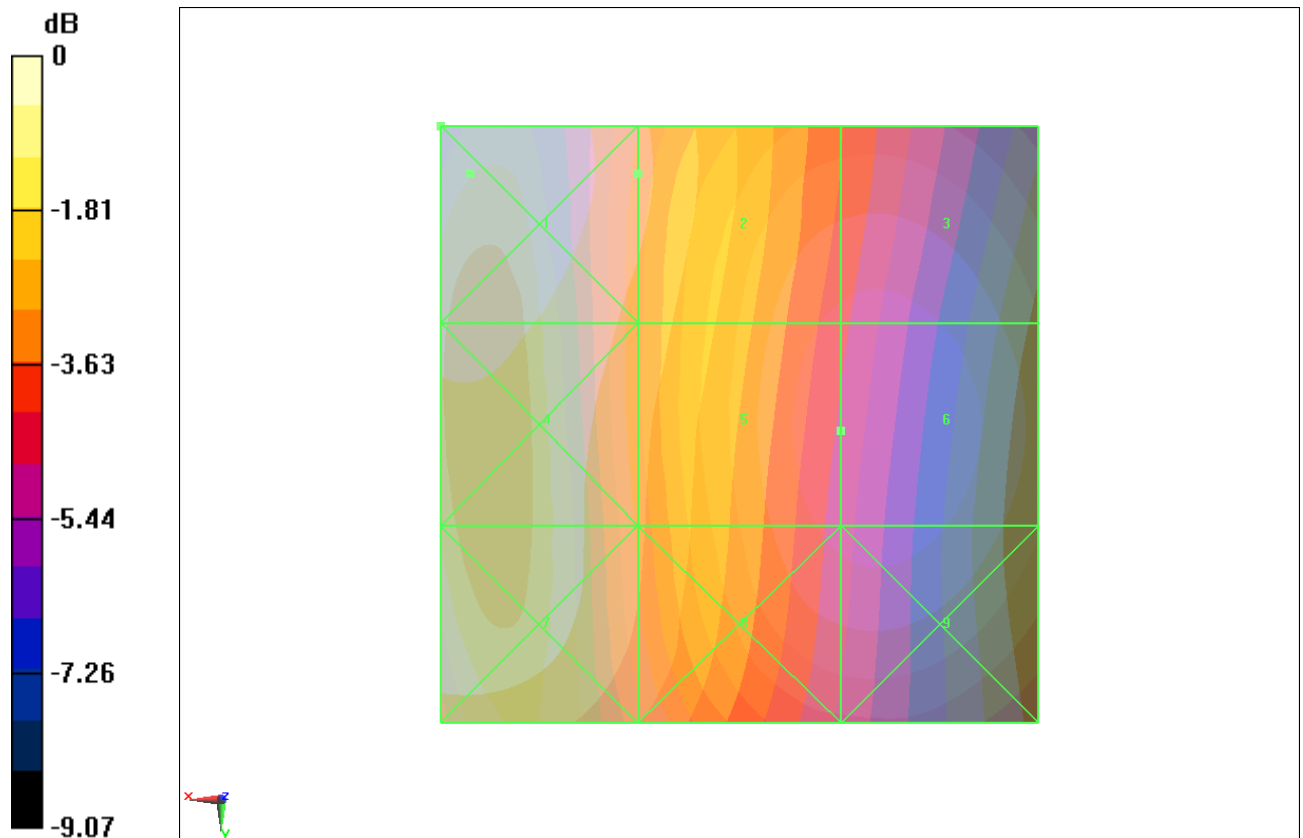
PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.1710 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M3 0.193 A/m	Grid 2 M4 0.171 A/m	Grid 3 M4 0.119 A/m
Grid 4 M4 0.183 A/m	Grid 5 M4 0.164 A/m	Grid 6 M4 0.112 A/m
Grid 7 M4 0.177 A/m	Grid 8 M4 0.158 A/m	Grid 9 M4 0.106 A/m



0 dB = 54.89 V/m = 34.79 dB V/m

RF RESULTS AND M-RATING	E-Field M Rating	M4 (AWF 0 dB)
	H-Field M Rating	M4 (AWF 0 dB)
	Total M Rating	M4

Fig B.34 Total M-rating of WCDMA 1700

Total M-rating of WCDMA 1900 MHz Band

Date: 9/7/2012

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Ambient Temperature: 22.5°C

Communication System: WCDMA 1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Probe: ER3DV6 - SN2480 Probe: H3DV6 - SN6305; ConvF(1, 1, 1)

E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 35.37 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 31.20 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 25.24 V/m	Grid 2 M4 28.97 V/m	Grid 3 M4 29.90 V/m
Grid 4 M4 19.03 V/m	Grid 5 M4 31.03 V/m	Grid 6 M4 32.16 V/m
Grid 7 M4 16.83 V/m	Grid 8 M4 30.32 V/m	Grid 9 M4 31.20 V/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.1010 A/m; Power Drift = 0.01 dB

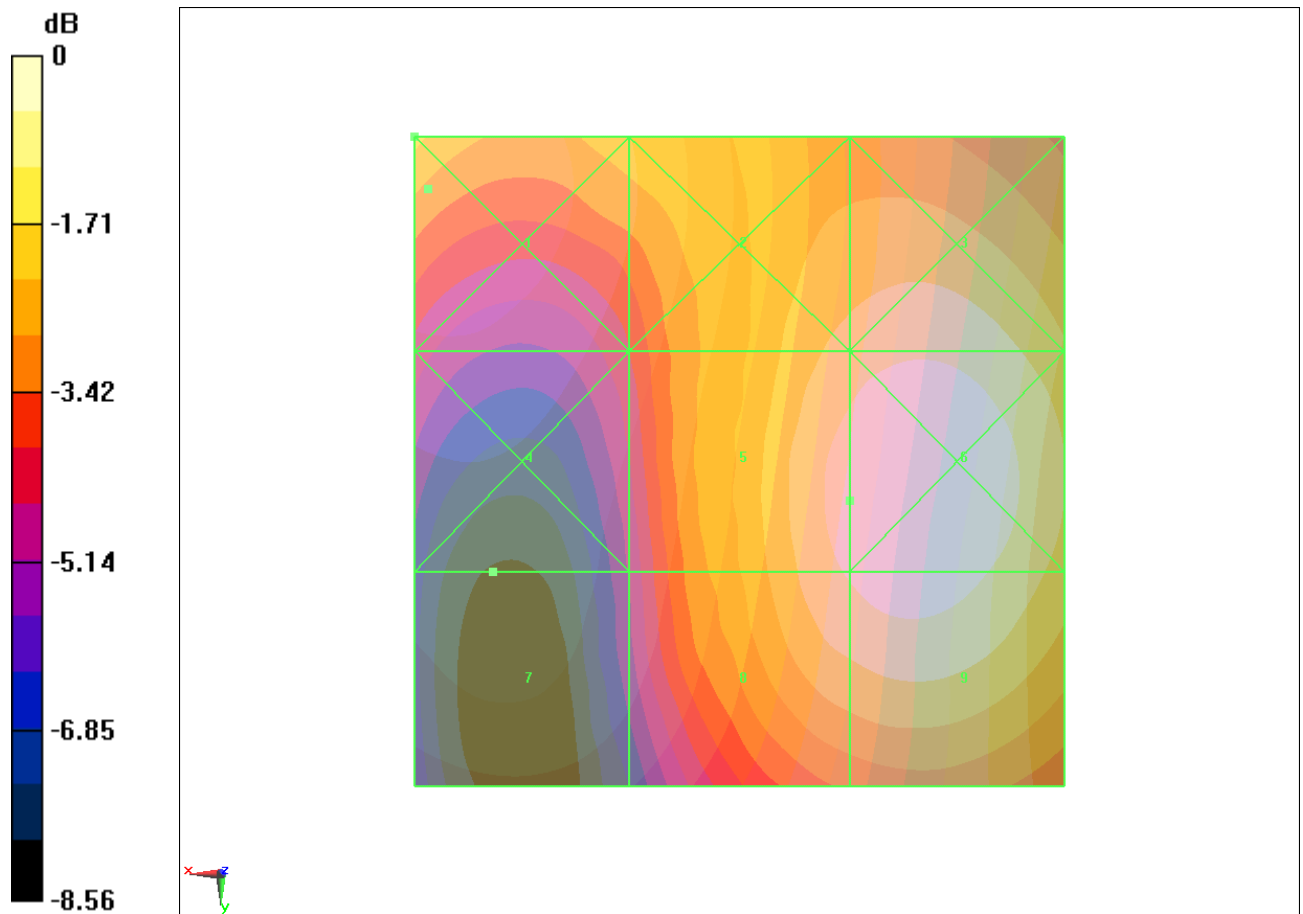
PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.1111 A/m

Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 M4 0.129 A/m	Grid 2 M4 0.116 A/m	Grid 3 M4 0.083 A/m
Grid 4 M4 0.121 A/m	Grid 5 M4 0.111 A/m	Grid 6 M4 0.081 A/m
Grid 7 M4 0.111 A/m	Grid 8 M4 0.105 A/m	Grid 9 M4 0.076 A/m



0 dB = 32.16 V/m = 30.15 dB V/m

RF RESULTS AND M-RATING	E-Field M Rating	M4 (AWF 0 dB)
	H-Field M Rating	M4 (AWF 0 dB)
	Total M Rating	M4

Fig B.35 Total M-rating of WCDMA 1900

ANNEX C SYSTEM VALIDATION RESULT

E SCAN of Dipole 835 MHz

Date: 9/7/2012

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Probe: ER3DV6 - SN2480;ConvF(1, 1, 1)

E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 163.2 V/m

Probe Modulation Factor = 1

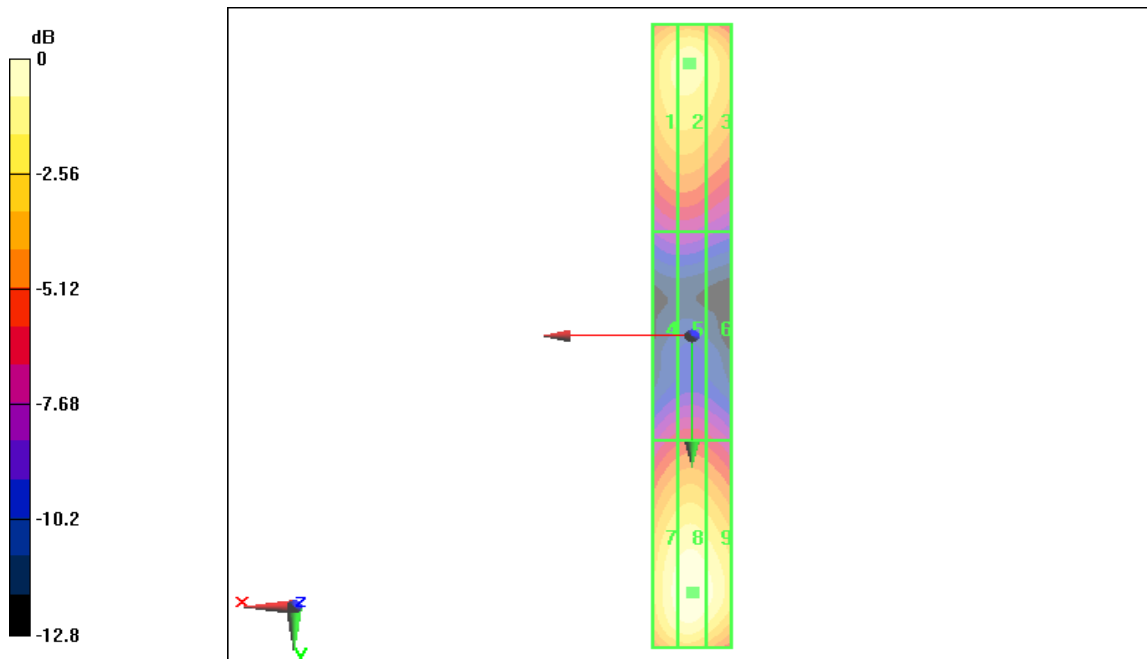
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 106.4 V/m; Power Drift = 0.055 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
158.1 M4	163.2 M4	149.0 M4
Grid 4	Grid 5	Grid 6
87.9 M4	90.6 M4	88.1 M4
Grid 7	Grid 8	Grid 9
153.3 M4	161.8 M4	159.5 M4



0 dB = 163.2V/m

H SCAN of Dipole 835 MHz

Date: 9/7/2012

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6305;

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.465 A/m

Probe Modulation Factor = 1

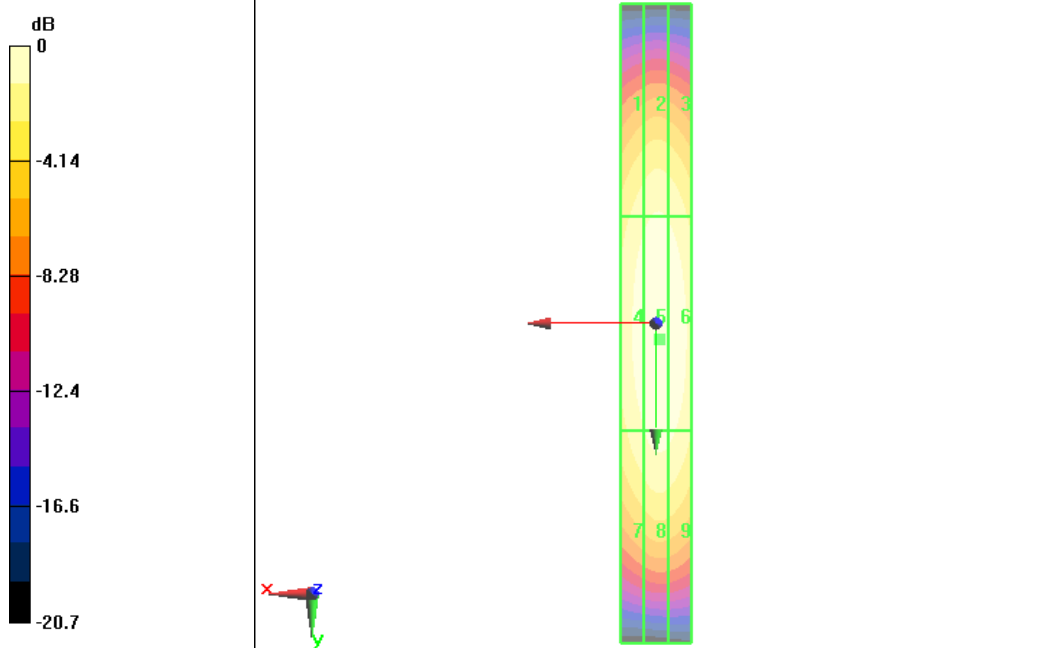
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.496 A/m; Power Drift = 0.063 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.385 M4	Grid 2 0.404 M4	Grid 3 0.396 M4
Grid 4 0.434M4	Grid 5 0.465 M4	Grid 6 0.442 M4
Grid 7 0.376 M4	Grid 8 0.405 M4	Grid 9 0.395 M4



0 dB = 0.465A/m

E SCAN of Dipole 1880 MHz

Date: 9/7/2012

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Probe: ER3DV6 - SN2480;ConvF(1, 1, 1)

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 143.8 V/m

Probe Modulation Factor = 1

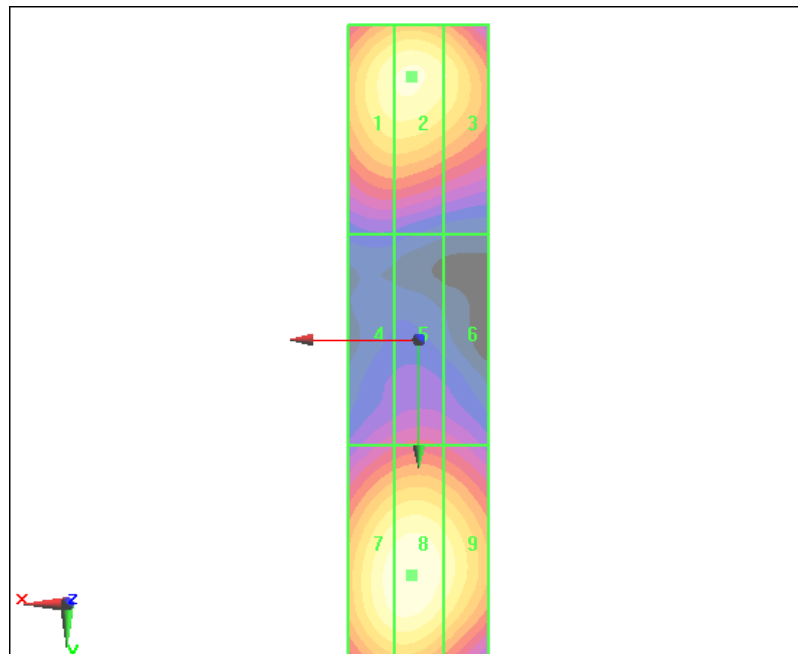
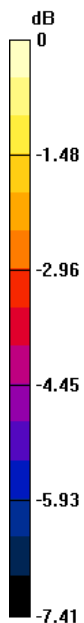
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 161.4 V/m; Power Drift = -0.03 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1 134.7 M2	Grid 2 140.0 M2	Grid 3 136.9 M2
Grid 4 90.5 M3	Grid 5 93.6 M3	Grid 6 90.6 M3
Grid 7 134.6 M2	Grid 8 143.8 M2	Grid 9 142.2 M2



0 dB = 143.8V/m

H SCAN of Dipole 1880 MHz

Date: 9/7/2012

Electronics: DAE4 Sn777

Medium: Air

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6305;

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.462 A/m

Probe Modulation Factor = 1

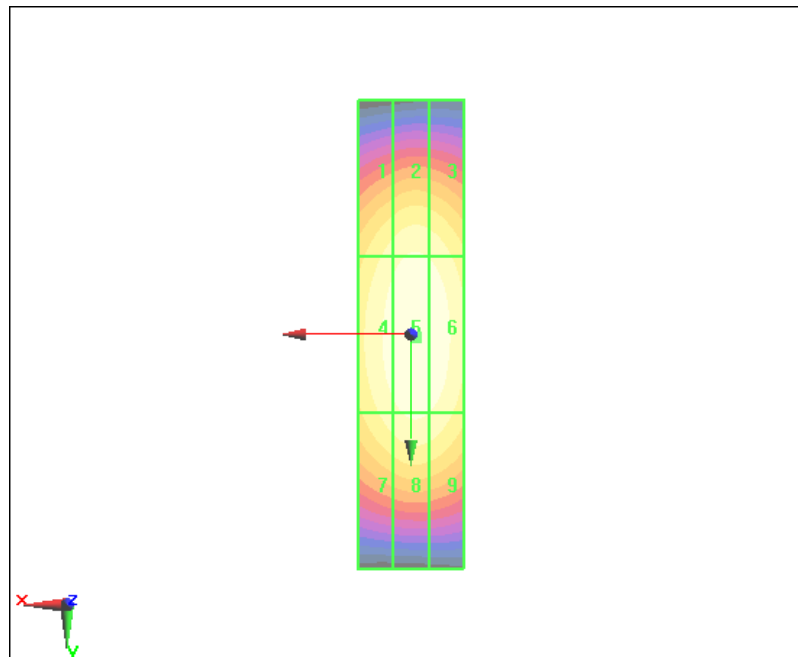
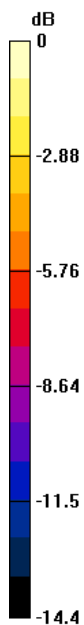
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.490 A/m; Power Drift = 0.046 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.392 M2	0.423 M2	0.398 M2
Grid 4	Grid 5	Grid 6
0.439 M2	0.462 M2	0.453 M2
Grid 7	Grid 8	Grid 9
0.403 M2	0.429 M2	0.413 M2



0 dB = 0.462A/m

ANNEX D PROBE CALIBRATION CERTIFICATE

E_Probe ER3DV6

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



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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

Accreditation No.: SCS 108

Client **Auden**

Certificate No: **ER3-2480_Jan12**

CALIBRATION CERTIFICATE

Object **ER3DV6 - SN:2480**

Calibration procedure(s) **QA CAL-02.v6, QA CAL-25.v4
Calibration procedure for E-field probes optimized for close near field
evaluations in air**

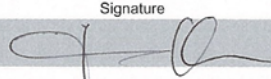
Calibration date: **January 4, 2012**

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 ER3DV6	SN: 2328	11-Oct-11 (No. ER3-2328_Oct11)	Oct-12
DAE4	SN: 789	6-Apr-11 (No. DAE4-789_Apr11)	Apr-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

Calibrated by:	Name Jeton Kastrati	Function Laboratory Technician	Signature 
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature 

Issued: January 4, 2012

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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**

Glossary:

NORM _{x,y,z}	sensitivity in free space
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ 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
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:

- IEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005.

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ for XY sensors and $\vartheta = 90$ for Z sensor ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide).
- NORM(f)_{x,y,z}** = NORM_{x,y,z} * frequency_response (see Frequency Response Chart).
- DCP_{x,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
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; VR_{x,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.
- Spherical isotropy (3D deviation from isotropy)**: in a locally homogeneous field realized using an open waveguide setup.
- 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 NORM_x (no uncertainty required).

ER3DV6 – SN:2480

January 4, 2012

Probe ER3DV6

SN:2480

Manufactured: March 31, 2009
Calibrated: January 4, 2012

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

ER3DV6– SN:2480

January 4, 2012

DASY/EASY - Parameters of Probe: ER3DV6 - SN:2480

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$)	2.05	1.48	1.83	$\pm 10.1 \%$
DCP (mV) ^B	97.8	98.5	101.0	

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	104.3	$\pm 2.2 \%$
			Y	0.00	0.00	1.00	106.0	
			Z	0.00	0.00	1.00	111.3	

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%.

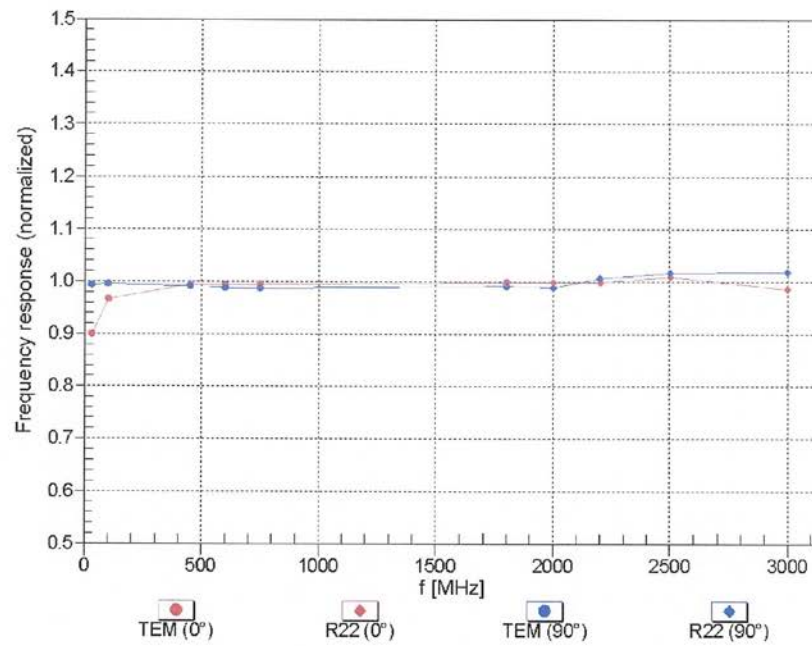
^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

ER3DV6- SN:2480

January 4, 2012

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

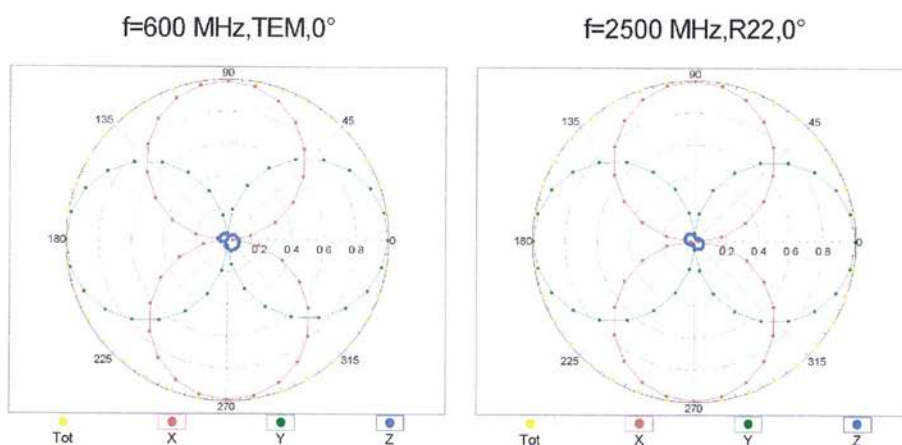


Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

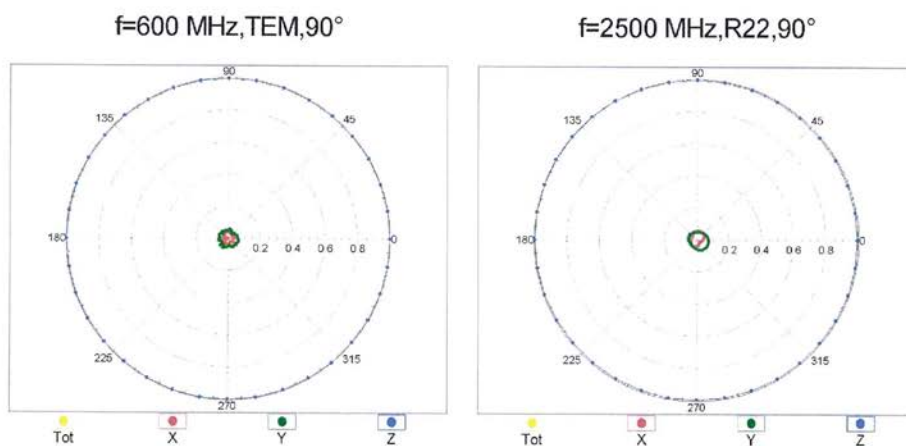
ER3DV6- SN:2480

January 4, 2012

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



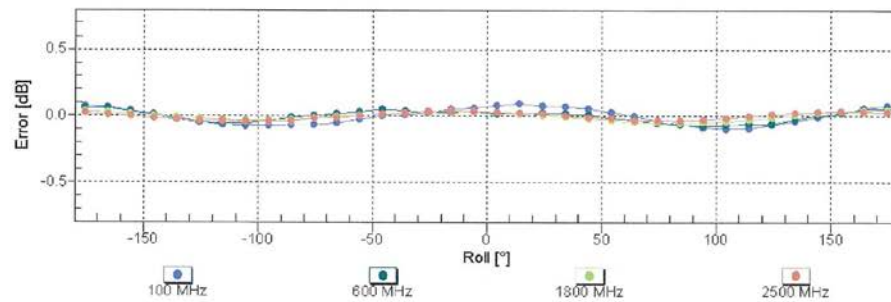
Receiving Pattern (ϕ), $\vartheta = 90^\circ$



ER3DV6- SN:2480

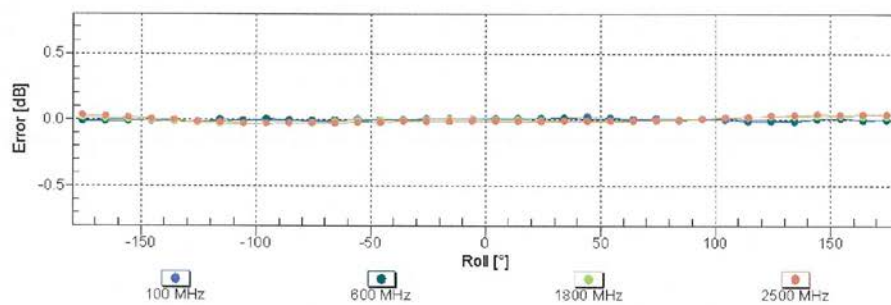
January 4, 2012

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



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Receiving Pattern (ϕ), $\vartheta = 90^\circ$

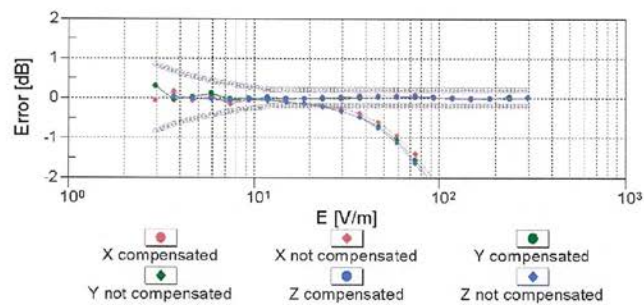
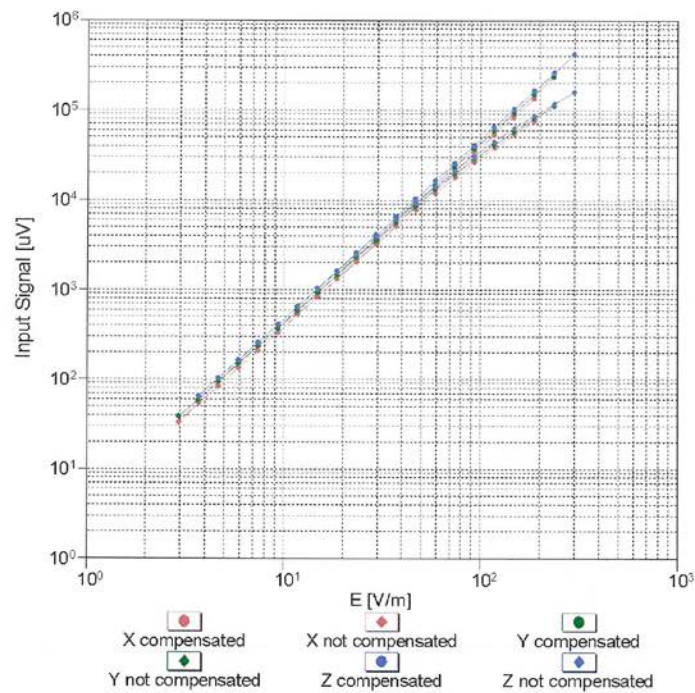


Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

ER3DV6- SN:2480

January 4, 2012

Dynamic Range f(E-field) (TEM cell , f = 900 MHz)



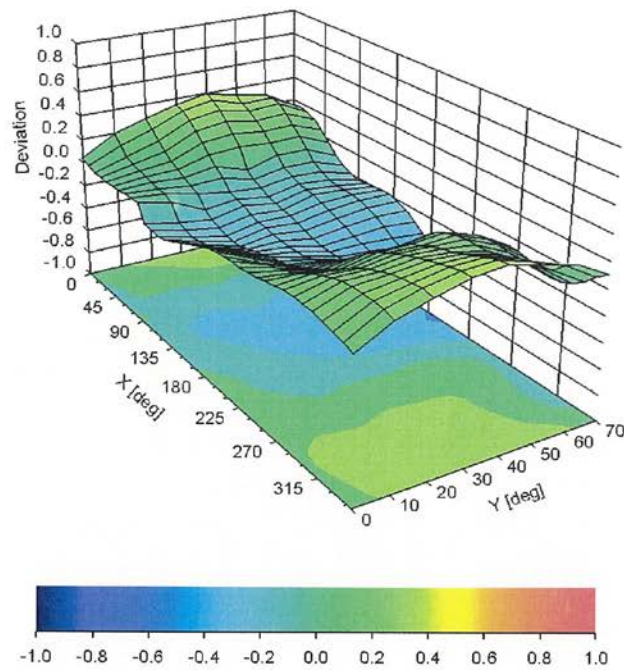
Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

ER3DV6- SN:2480

January 4, 2012

Deviation from Isotropy in Air

Error (ϕ , θ), $f = 900$ MHz



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)

ER3DV6- SN:2480

January 4, 2012

DASY/EASY - Parameters of Probe: ER3DV6 - SN:2480

Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (°)	24.3
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	8 mm
Probe Tip to Sensor X Calibration Point	2.5 mm
Probe Tip to Sensor Y Calibration Point	2.5 mm
Probe Tip to Sensor Z Calibration Point	2.5 mm

H_Probe H3DV6

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**

Client **Auden**

Certificate No: **H3-6305_Jan12**

CALIBRATION CERTIFICATE

Object **H3DV6 - SN:6305**

Calibration procedure(s) **QA CAL-03.v6, QA CAL-25.v4**
Calibration procedure for H-field probes optimized for close near field evaluations in air

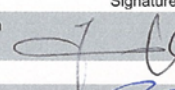
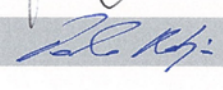
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Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-11 (No. 217-01367)	Apr-12
Reference 30 dB Attenuator	SN: S5129 (30b)	29-Mar-11 (No. 217-01370)	Apr-12
Reference Probe H3DV6	SN: 6182	11-Oct-11 (No. H3-6182_Oct11)	Oct-12
DAE4	SN: 789	6-Apr-11 (No. DAE4-789_Apr11)	Apr-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	
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			
Issued: January 4, 2012			

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



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Accreditation No.: **SCS 108**

Glossary:

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DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C	modulation dependent linearization parameters
Polarization ϕ	ϕ rotation around probe axis
Polarization ϑ	ϑ 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
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

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- IEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005.

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- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ for XY sensors and $\vartheta = 90$ for Z sensor ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide).
- X, Y, Z(f)_a0a1a2**= X, Y, Z_a0a1a2* *frequency_response* (see Frequency Response Chart).
- 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; 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.
- Spherical isotropy (3D deviation from isotropy)**: in a locally homogeneous field realized using an open waveguide setup.
- 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 X_a0a1a2 (no uncertainty required).

H3DV6 – SN:6305

January 4, 2012

Probe H3DV6

SN:6305

Manufactured: December 16, 2008
Calibrated: January 4, 2012

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

H3DV6- SN:6305

January 4, 2012

DASY/EASY - Parameters of Probe: H3DV6 - SN:6305

Basic Calibration Parameters

		Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (A/m / $\sqrt{(\text{mV})}$)	a0	2.54E-003	2.59E-003	3.01E-003	$\pm 5.1 \%$
Norm (A/m / $\sqrt{(\text{mV})}$)	a1	-6.54E-005	-8.91E-005	-4.24E-005	$\pm 5.1 \%$
Norm (A/m / $\sqrt{(\text{mV})}$)	a2	4.10E-005	9.68E-006	1.91E-005	$\pm 5.1 \%$
DCP (mV) ^B		96.2	93.5	92.3	

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	101.6	$\pm 3.0 \%$
			Y	0.00	0.00	1.00	100.4	
			Z	0.00	0.00	1.00	94.6	

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%.

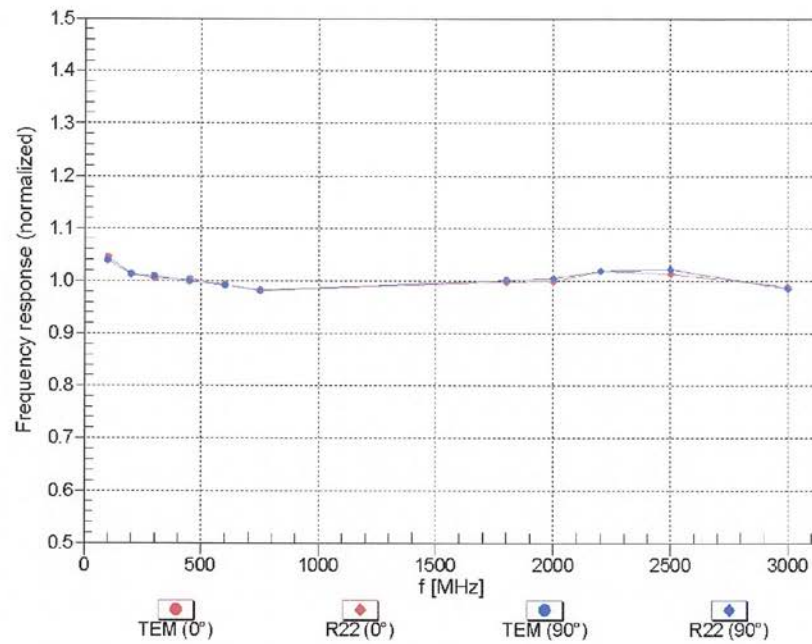
^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

H3DV6- SN:6305

January 4, 2012

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



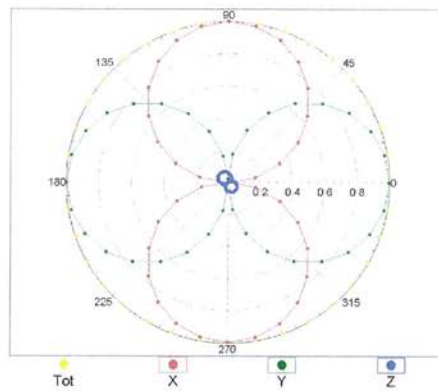
Uncertainty of Frequency Response of H-field: $\pm 6.3\%$ (k=2)

H3DV6- SN:6305

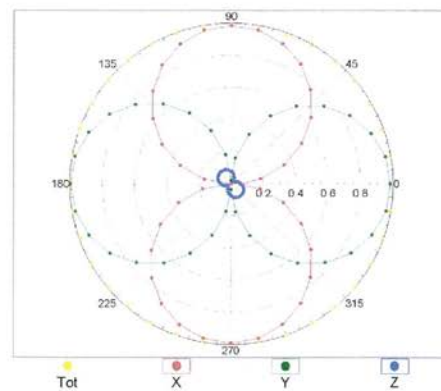
January 4, 2012

Receiving Pattern (ϕ), $\theta = 0^\circ$

f=600 MHz,TEM,0°

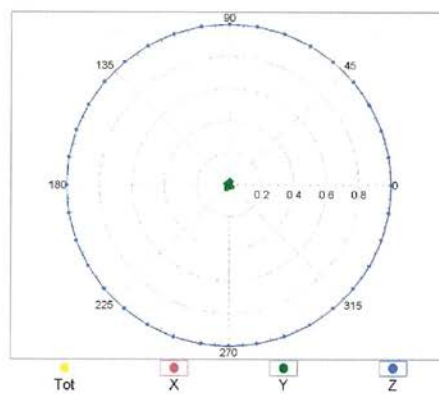


f=2500 MHz,R22,0°

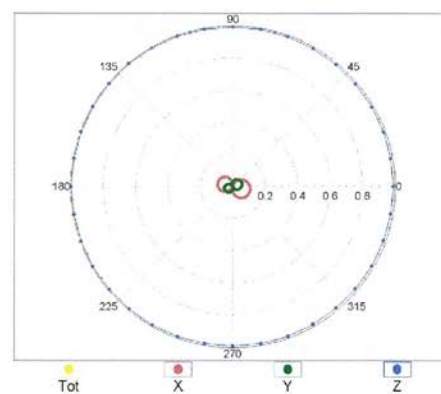


Receiving Pattern (ϕ), $\theta = 90^\circ$

f=600 MHz,TEM,90°



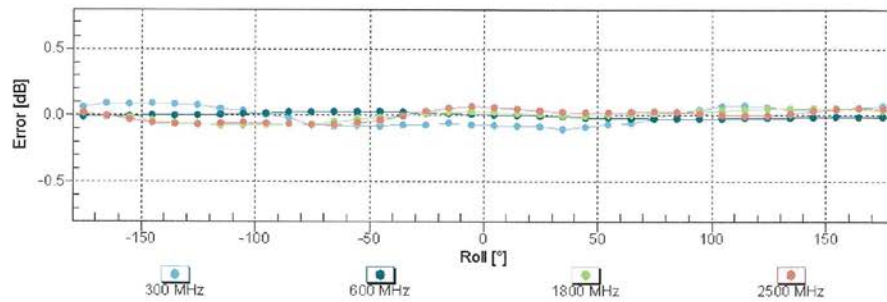
f=2500 MHz,R22,90°



H3DV6- SN:6305

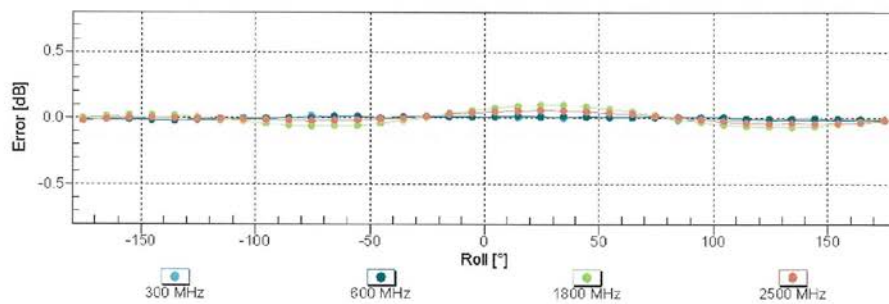
January 4, 2012

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



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Receiving Pattern (ϕ), $\vartheta = 90^\circ$

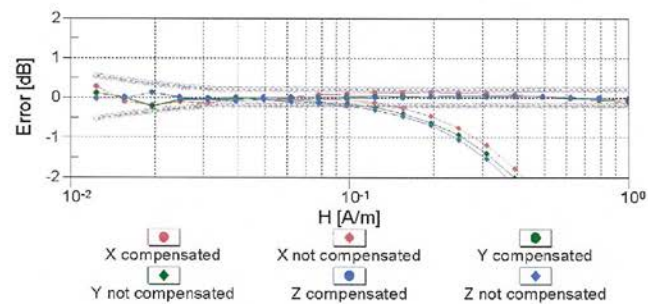
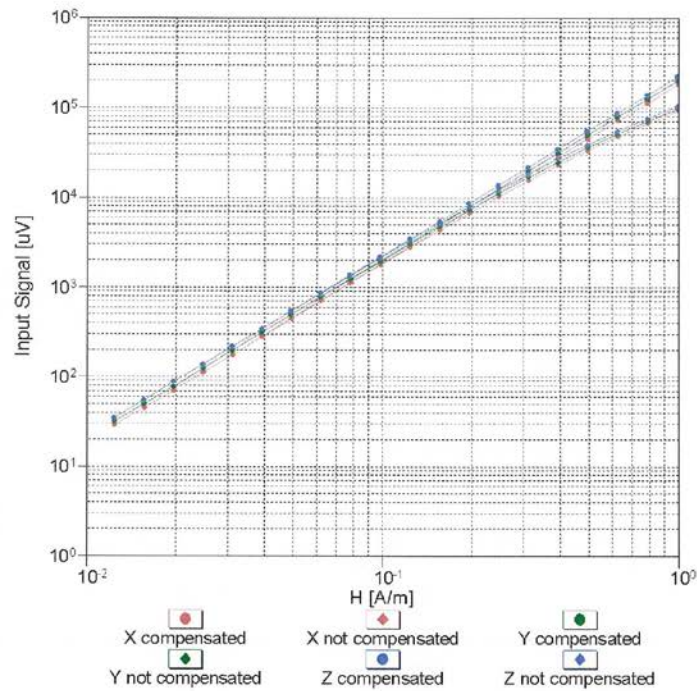


Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

H3DV6- SN:6305

January 4, 2012

Dynamic Range f(H-field) (TEM cell, f = 900 MHz)



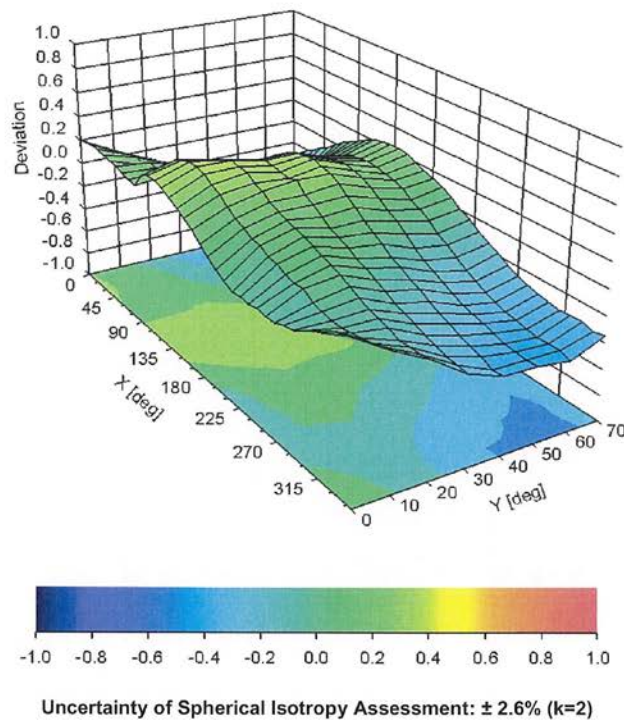
Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

H3DV6- SN:6305

January 4, 2012

Deviation from Isotropy in Air

Error (ϕ , θ), $f = 900$ MHz



H3DV6- SN:6305

January 4, 2012

DASY/EASY - Parameters of Probe: H3DV6 - SN:6305

Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (°)	-145.4
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	20 mm
Tip Diameter	6 mm
Probe Tip to Sensor X Calibration Point	3 mm
Probe Tip to Sensor Y Calibration Point	3 mm
Probe Tip to Sensor Z Calibration Point	3 mm