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Andrew Becker	Mar. 22-23, June 19-22, 2011 RTS-2604-1107-11 L6ARDS40CW				

Annex B: Probe and dipole description and calibration certificates

B.1 Probe, measurement chain description, specification and calibration certificate

Testing Services™

Document

Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDS41CW

Report No

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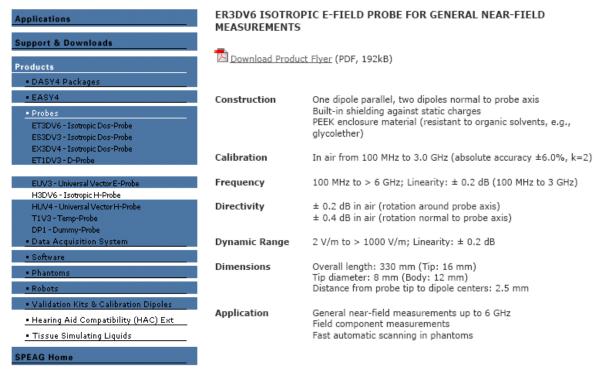
RTS-2604-1107-11

L6ARDS40CW

FCC ID

DASY Dosimetric Assessment System by Schmid & Partner Engineering AG





http://www.dasy4.com/er3.htm

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Andrew Becker

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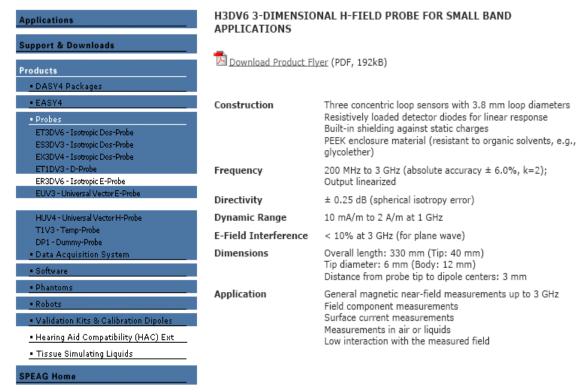
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FCC ID

DASY Dosimetric Assessment System by Schmid & Partner Engineering AG





http://www.dasy4.com/h3d.htm

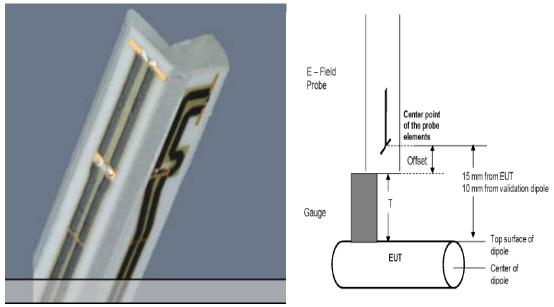
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Andrew Becker	Mar. 22-23, June 19-22, 2011 RTS-2604-1107-11 L6ARDS400				

All measurements were performed to the nearest element point as per the C63.19 standard. Offset distances were entered in the DASY4 software so that the measurement was to the nearest element.

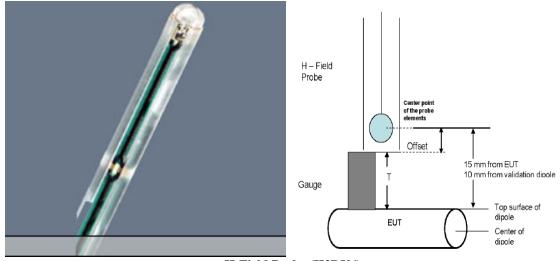
Figures 1 and 2, provided by the manufacturer, illustrate detail of the probe tip and its dimensions.

ER3DV6 E-Field probe: The distances from the probe tip to the closest points on the dipole sensors are 1.45mm for X and Y and 1.25mm for Z. From the probe tip to the center of the sensors is 2.5mm.

H3DV6 H-Field probe: The distance from the probe tip to the closest point of the X, Y and Z loop sensors is 1.1mm. From the probe tip to the center of the sensor is 3.00mm.



E-Field Probe (ER3DV6)



H-Field Probe (H3DV6)



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The following information is from the system manufacturer user manual describing the process chain:

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$
(20.1)

with V_i = compensated signal of channel i (i = x, y, z) U_i = input signal of channel i (i = x, y, z) cf = crest factor of exciting field (DASY parameter) dcp_i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

$$\mbox{E} - \mbox{fieldprobes}: \qquad E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}} \label{eq:energy}$$

$${
m H-field probes}$$
 : $H_i = \sqrt{V_i} \cdot rac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$

with V_i = compensated signal of channel i (i = x, y, z) $Norm_i$ = sensor sensitivity of channel i (i = x, y, z)

 $\mu V/(V/m)^2$ for E-field Probes

ConvF = sensitivity enhancement in solution

 a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

 E_i = electric field strength of channel i in V/m H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$
(20.2)

The measurement / integration time per point is > 500 ms, as per the system manufacturer:

The time response of the field probes has been assessed by exposing the probe to a well-controlled field producing signals larger than HAC E- and H-fields of class M4. The signal response time is evaluated as the time required by the system to reach 90% of the expected final value after an on/off switch of the power source with an integration time of 500 ms and a probe response time of <5 ms. In the current implementation, DASY4 waits longer than 100 ms after having reached the grid point before starting a measurement, i.e., the response time uncertainty is negligible.

If the device under test does not emit a CW signal, the integration time applied to measure the electric field at a specific point may introduce additional uncertainties due to the discretization. The tolerances for the different systems had the worst-case of 2.6%.



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FCC ID L6ARDS40CW

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





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Multilateral Agreement for the recognition of calibration certificates

Client

RTS (RIM Testing Services)

Certificate No: ER-2286_Jan11

Accreditation No.: SCS 108

CALIBRATION CERTIFICATE

Object

ER3DV6 - SN:2286

Calibration procedure(s)

QA CAL-02.v6, QA CAL-25.v3

Calibration procedure for E-field probes optimized for close near field

evaluations in air

Calibration date:

January 14, 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	1D	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	01-Apr-10 (No. 217-01136)	Apr-11
Power sensor E4412A	MY41495277	01-Apr-10 (No. 217-01136)	Apr-11
Power sensor E4412A	MY41498087	01-Apr-10 (No. 217-01136)	Apr-11
Reference 3 dB Attenuator	SN: S5054 (3c)	30-Mar-10 (No. 217-01159)	Mar-11
Reference 20 dB Attenuator	SN: S5086 (20b)	30-Mar-10 (No. 217-01161)	Mar-11
Reference 30 dB Attenuator	SN: S5129 (30b)	30-Mar-10 (No. 217-01160)	Mar-11
Reference Probe ER3DV6	SN: 2328	4-Oct-10 (No. ER3-2328_Oct10)	Oct-11
DAE4	SN: 789	31-Aug-10 (No. DAE4-789_Aug10)	Aug-11
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-10)	In house check: Oct-11

Calibrated by:

Name

Function Laboratory Technician

MA

Approved by

Katja Pokovic

Technical Manage

Issued: January 15, 2011

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





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Accreditation No.: SCS 108

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Glossary:

NORMx,y,z

sensitivity in free space

DCP

diode compression point

CF

crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

A, B, C

Polarization o

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

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:

a) 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:

- *NORMx,y,z*: Assessed for E-field polarization $\vartheta = 0$ for XY sensors and $\vartheta = 90$ for Z sensor (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
- NORM(f)x,y,z = NORMx,y,z * 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.
- 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
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate	No:	ER-2286	Jan11



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FCC ID

L6ARDS40CW

ER3DV6 - SN:2286

January 14, 2011

Probe ER3DV6

SN:2286

Manufactured: Calibrated:

September 18, 2002 January 14, 2011

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: ER-2286_Jan11

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L6ARDS40CW

FCC ID

ER3DV6- SN:2286

January 14, 2011

DASY/EASY - Parameters of Probe: ER3DV6 - SN:2286

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²)	2.23	1.48	1.51	± 10.1 %
DCP (mV) ^B	97.6	98.4	97.6	

Modulation Calibration Parameters

UID	Communication System Name	PAR		A dB	B dB	C dB	VR mV	Unc ^E (k=2)
10000	CW	0.00	Х	0.00	0.00	1.00	179.3	±3.0 %
			Υ	0.00	0.00	1.00	145.0	
			Z	0.00	0.00	1.00	180.1	

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%.

field value.

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



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L6ARDS40CW

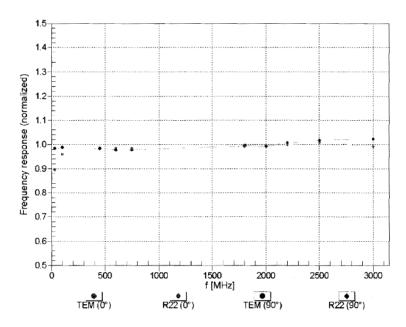
FCC ID

ER3DV6-SN:2286

January 14, 2011

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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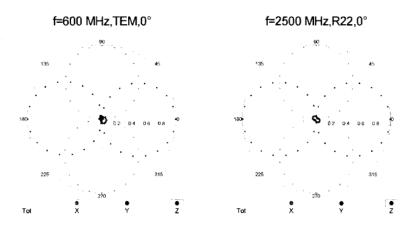
L6ARDS40CW

FCC ID

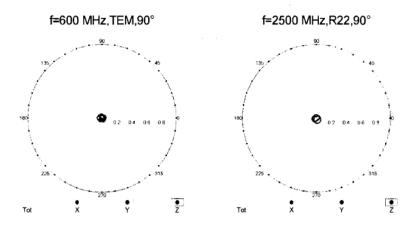
ER3DV6-- SN:2286

January 14, 2011

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



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



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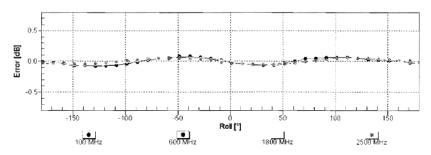
L6ARDS40CW

FCC ID

ER3DV6- \$N:2286

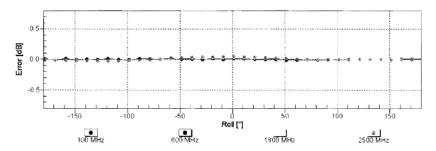
January 14, 2011

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



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

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



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

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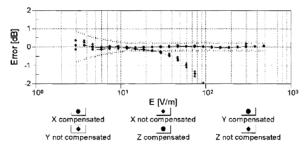
FCC ID

ER3DV6-- SN:2286

January 14, 2011

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

10³
10⁴
10⁴
10⁰
10⁰
10¹
10¹
10¹
10¹
E [V/m]
X compensated
X not compensated
Y compensated
Y compensated
Y compensated



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

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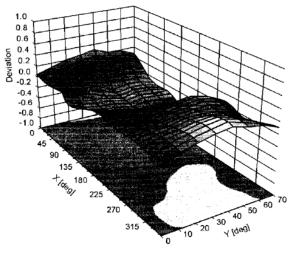
L6ARDS40CW

ER3DV6- SN:2286

January 14, 2011

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

Εποι (φ, σ), τ = 300 mm2



-1.0 -0.8 -0.6 -0.4 -0.2 0.0 0.2 0.4 0.6 0.8 1

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

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Client R

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Certificate No: H3-6105_Nov10

Accreditation No.: SCS 108

CALIBRATION CERTIFICATE

Object **H3DV6 - SN:6105**

Calibration procedure(s) QA CAL-03.v5, QA CAL-25.v2

Calibration procedure for H-field probes optimized for close near field

evaluations in air

Calibration date: November 18, 2010

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 E44198	GB41293874	10-Apr-10 (No. 217-01136)	Apr-11
Power sensor E4412A	MY41495277	10-Apr-10 (No. 217-01136)	Apr-11
Power sensor E4412A	MY41498087	10-Apr-10 (No. 217-01136)	Apr-11
Reference 3 dB Attenuator	SN: S5054 (3c)	30-Mar-10 (No. 217-01159)	Mar-11
Reference 20 dB Allenuator	SN: \$5086 (20b)	3D-Mar-10 (No. 217-01161)	Mar-11
Reference 30 dB Altenuator	SN: S5129 (30b)	30-Mar-10 (No. 217-01160)	Mar-11
Reference Probe H30V6	SN: 6182	4-Oct-10 (No. H3-6182_Oct10)	Oct-11
DAE4	SN: 789	31-Aug-10 (No. DAE4-789_Aug10)	Aug-11
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 86480	US3642U01700	4-Aug-99 (in house check Oct-09)	In house check: Oct-11
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-10)	In house check, Oct-11

Issued: November 19, 2010

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Swiss Calibration Service

Accreditation No.: SCS 108

Accredited by the Swiss Accreditation Service (SAS)

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Glossary:

NORMx.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 o o rotation around probe axis

Polarization 3 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

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:

 a) 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:

- NORMx.y.z: Assessed for E-field polarization 9 = 0 for XY sensors and 9 = 90 for Z sensor (f ≤ 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.
- 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).

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H3DV6 - SN:6105 November 16, 2010

Probe H3DV6

SN:6105

Manufactured: Calibrated:

January 5, 2002 November 18, 2010

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



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L6ARDS40CW

H3DV6- \$N:6105

November 18, 2010

DASY/EASY - Parameters of Probe: H3DV6 - SN:6105

Basic Calibration Parameters

		Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (A/m / $\sqrt{(mV)}$)	a0	2.94E-003	2.71E-003	3.01E-003	± 5.1 %
Norm (A/m / $\sqrt{(mV)}$)	a1	2.83E-005	2.25E-005	-8.45E-005	± 5.1 %
Norm (A/m / $\sqrt{(mV)}$)	a2	·1.08E-005	2.19E-006	5.51E-006	± 5.1 %
DCP (mV) ^B		90.4	91.6	92.6	

Modulation Calibration Parameters

ÜID	Communication System Name	PAR	Γ.	A de	B dB	¢B	VR mV	Unc ^E (k=2)
10000	CW	0.00	X	0.00	0.00	1.00	211.2	±2.96 %
			Y	0.00	0.00	1.00	233.0	
			z	0.00	0.00	1.00	239.4	

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%.

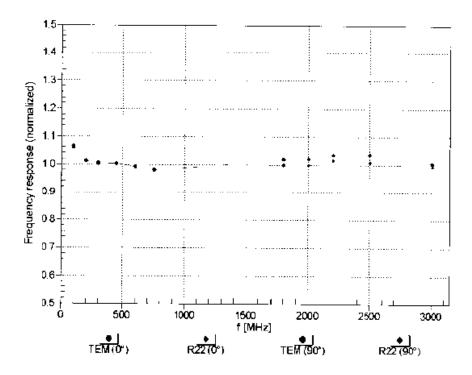
⁸ Numerical linearization parameter, uncertainty not required

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

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Andrew Becker	Mar. 22-23, June 19-22, 2011	RTS-2604-1107-11	L6ARDS	S40CW

H3DV6- SN:6105 November 18, 2010

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



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

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H3DV6- SN:6105 November 18, 2010

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

f=600 MHz,TEM,0°

20

40

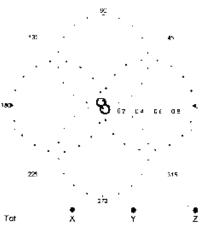
40

22

40

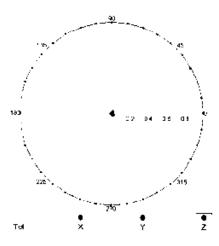
415

f=2500 MHz,R22,0°

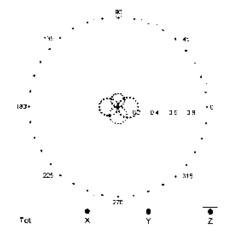


Receiving Pattern (\$\phi\$), 9 = 90°

f=600 MHz,TEM,90°



f=2500 MHz,R22,90°

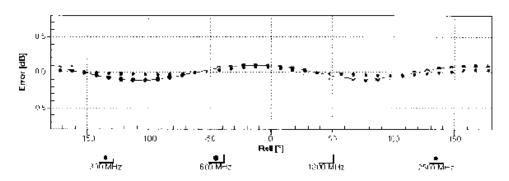


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Author Data	Dates of Test	Report No	FCC ID	
Andrew Becker	Mar. 22-23, June 19-22, 2011	RTS-2604-1107-11	L6ARDS	S40CW

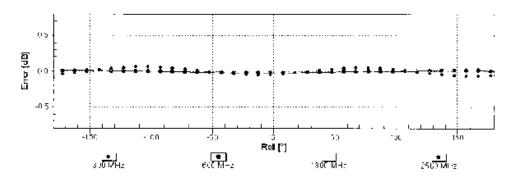
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Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



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

Receiving Pattern (ϕ), ϑ = 90°

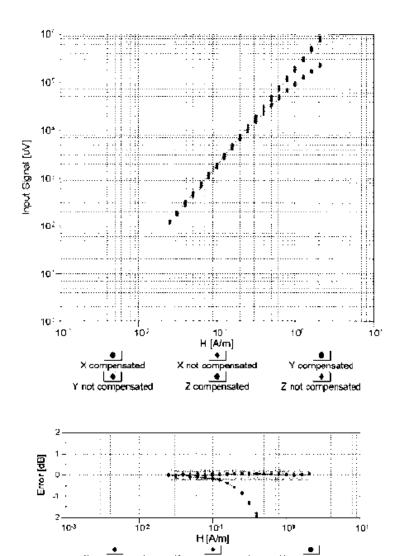


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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



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



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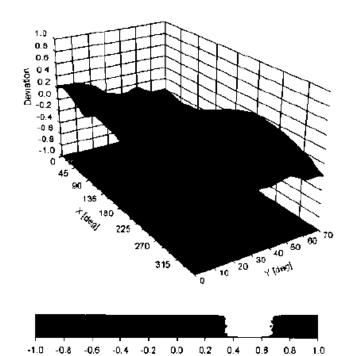
RTS-2604-1107-11

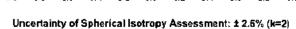
L6ARDS40CW

FCC ID

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





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DASY/EASY - Parameters of Probe: H3DV6 - SN:6105

Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (*)	-62.8
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