| SlackB | erry | Document Annex B to Hearing Aid Co Report for the BlackBerry® (STR100-2) | | | Page 1(14) |
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| Author Data Daoud Attayi | Dates of Test | 17, 2015 | Report No RTS-6063-1503-09 | FCC ID | RHC160LW |

Annex B: Probe and dipole description and calibration certificates

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

| SlackB | erry | | Aid Compatibility RF Emissions Berry® Smartphone model RHC | | Page 2(14) |
|--------------------------|---------------------------|----------|---|---------------|------------|
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DASY Dosimetric Assessment System by Schmid & Partner Engineering AG

| DASY Schmid & Partner Engineering AG News Sales Contact | | A REAL PROVIDENCE OF A REAL PR |
|--|---------------|--|
| Applications | ER3DV6 ISOTRO | PIC E-FIELD PROBE FOR GENERAL NEAR-FIELD |
| Support & Downloads Products DASY4 Packages | - | <u>t Flyer</u> (PDF, 192kB) |
| EASY4 Probes ET3DV6 - Isotropic Dos-Probe ES3DV3 - Isotropic Dos-Probe | Construction | One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether) |
| EX3DV4 - Isotropic Dos-Probe ET1DV3 - D-Probe | Calibration | In air from 100 MHz to 3.0 GHz (absolute accuracy ±6.0%, k=2) |
| EUV3 - Universal Vector E-Probe H3DV6 - Isotropic H-Probe | Frequency | 100 MHz to > 6 GHz; Linearity: \pm 0.2 dB (100 MHz to 3 GHz) |
| HUV4 - Universal Vector H-Probe T1V3 - Temp-Probe DP1 - Dummy-Probe | Directivity | ± 0.2 dB in air (rotation around probe axis) ± 0.4 dB in air (rotation normal to probe axis) |
| Data Acquisition System | Dynamic Range | 2 V/m to > 1000 V/m; Linearity: \pm 0.2 dB |
| Software Phantoms Robots | Dimensions | Overall length: 330 mm (Tip: 16 mm) Tip diameter: 8 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.5 mm |
| Validation Kits & Calibration Dipoles Hearing Aid Compatibility (HAC) Ext Tissue Simulating Liquids SPEAG Home | Application | General near-field measurements up to 6 GHz Field component measurements Fast automatic scanning in phantoms |

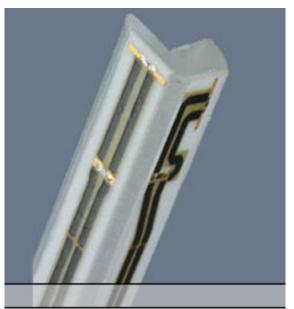
http://www.dasy4.com/er3.htm

| SlackB | erry | - | npatibility RF Emissions Test Smartphone model RHC161LV | | Page 3(14) |
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All measurements were performed to the nearest element point as per the C63.19 standard. Offset distances were entered in the DASY5 software so that the measurement was to the nearest element.

Figures 1, 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.



E-Field Probe (ER3DV6)

| SlackBerry | | Annex B to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RHC161LW (STR100-2) | | Page 4(14) | |
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| Author Data | Dates of Test | | Report No | FCC ID |) |
| Daoud Attayi | Feb. 02- | ·17, 2015 | RTS-6063-1503-09 | L6A | RHC160LW |

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:

| | $\mathrm{E-field probes}$: | $E_i = \sqrt{\frac{V_i}{Norm_i \cdot C}}$ | ConvF |
|------|---|---|---|
| | $\mathbf{H}-\mathbf{fieldprobes}$: | $H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}}{2}$ | $\frac{f + a_{i2}f^2}{f}$ |
| with | = compensated signal of c = sensor sensitivity of cha $\mu V/(V/m)^2$ for E-field = sensitivity enhancement = sensor sensitivity factor = carrier frequency [GHz] = electric field strength of = magnetic field strength | nnel i l Probes t in solution s for H-field probes f channel i in V/m | $\begin{array}{l} (i=x,y,z) \\ (i=x,y,z) \end{array}$ |

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%.

| ta | Dates of Test | | Report No | | FCC ID |
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| d Attayi | Feb. 02-1 | 17, 2015 | RTS-6063 | -1503-09 | L6ARHC160L |
| | | | | TST-SALL-00 | 0006 |
| Sch | ibration Labor mid & Partner ngineering AG hausstrasse 43, 8004 | | | Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service | |
| The S | wiss Accreditation S | reditation Service (SAS) ervice is one of the signatories the recognition of calibration | s to the EA | creditation No.: SCS 0108 | |
| Clien | Blackberry | Waterloo | Certificate No: | ER3-2286_Jan15 | |
| CA | LIBRATIO | N CERTIFICATE | 91. 72. | | |
| Obje | ct | ER3DV6 - SN:22 | 86 | | |
| Calib | pration procedure(s) | QA CAL-02.v8, G Calibration proce evaluations in air | dure for E-field probes optimized | for close near field | |
| Calik | oration date: | January 19, 2015 | | | |
| | | | onal standards, which realize the physical unit robability are given on the following pages and | | |
| The All c | measurements and the | e uncertainties with confidence p | | I are part of the certificate. | |
| The Atl c Calit | measurements and the atibrations have been o bration Equipment user | s uncertainties with confidence p conducted in the closed laborator | robability are given on the following pages and | I are part of the certificate. | |
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| The S | wiss Accreditation | Accreditation Service (SAS) n Service is one of the signatories to the EA for the recognition of calibration certificates | Accreditation No.: SCS | 0108 |
| NOR DCP CF A, B, | ssary: Mx,y,z C, D rization φ | sensitivity in free space diode compression point crest factor (1/duty_cycle) of the R modulation dependent linearization φ rotation around probe axis | | |
| | rization 9 nector Angle | i.e., 9 = 0 is normal to probe axis | the plane normal to probe axis (at measurement to align probe sensor X to the robot coordinate sy | |
| a ž Met | a) IEEE Std 13 antennas, fm b) CTIA Test P hods Applie NORMx,y,z: | om 9 kHz to 40 GHz [*] , December 2005 lan for Hearing Aid Compatibility, April d and Interpretation of Parame Assessed for E-field polarization 9 = (| on of electromagnetic field sensors and probes, e: 2010. | |
| | | > 1800 MHz: R22 waveguide). z = NORMx.y.z * frequency response | (see Frequency Response Chart) | |
| | DCPx,y.z: D | | eters assessed based on the data of power sweep | with CW |
| | | s the Peak to Average Ratio that is not | calibrated but determined based on the signal | |
| | the data of p | ower sweep for specific modulation si | are numerical linearization parameters assessed to gnal. The parameters do not depend on frequency assed in RMS voltage across the diode. | based on y nor |
| | Spherical is waveguide s | | a locally homogeneous field realized using an ope | en |
| | | et: The sensor offset corresponds to the kis). No tolerance required. | ne offset of virtual measurement center from the p | robe tip |
| | Connector A uncertainty | | information gained by determining the NORMx (r | no |
| | | | | |
| | | | | |
| | | | | |

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| SlackB | erry | | d Compatibility RF Emissions rry® Smartphone model RHC1 | | Page 7(14) |
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January 19, 2015

Probe ER3DV6

SN:2286

Manufactured: Calibrated: September 18, 2002 January 19, 2015

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

Certificate No: ER3-2286_Jan15

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| SlackB | erry | | Aid Compatibility RF Emissions 1 Berry® Smartphone model RHC16 | | Page 8(14) |
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| Daoud Attayi | Feb. 02- | 17, 2015 | RTS-6063-1503-09 | L6A | RHC160LW |

January 19, 2015

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

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|------------------------|----------|----------|----------|-----------|
| Norm $(\mu V/(V/m)^2)$ | 2.23 | 1.47 | 1.51 | ± 10.1 % |
| DCP (mV) ^B | 98.9 | 100.3 | 99.7 | |

Modulation Calibration Parameters

| UID | Communication System Name | | A | B dBõV | C | D dB | VR mV | Unc ^L (k=2) |
|-----|---------------------------|---|-----|-----------|-----|---------|----------|---------------------------|
| 0 | CW | X | 0.0 | 0.0 | 1.0 | 0.00 | 182.8 | ±3.8 % |
| | | Y | 0.0 | 0.0 | 1.0 | | 197.2 | |
| | | Z | 0.0 | 0.0 | 1.0 | - | 175.9 | |

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%.

⁶ Numerical linearization parameter: uncertainty not required.
⁶ Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

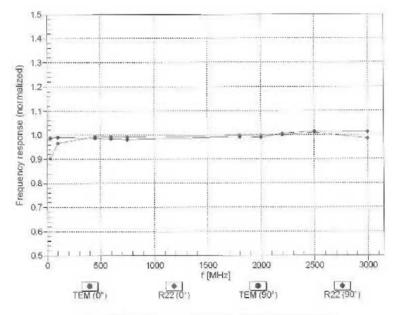
Certificate No: ER3-2286 Jan15

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January 19, 2015

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



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

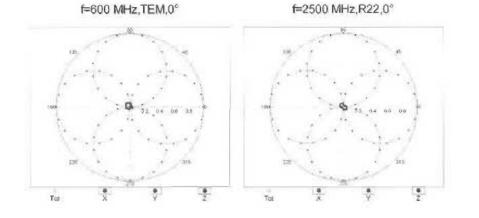
Certificate No: ER3-2286_Jan15

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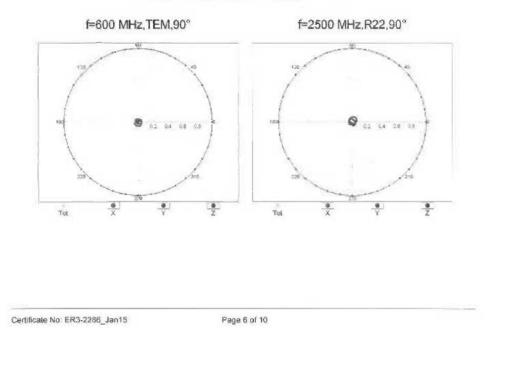
| SlackBerry | | (STR100-2) | | | Page 10(14) |
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| Author Data | Dates of Test | | Report No | FCC ID | |
| Daoud Attayi Feb. 02- | | ·17, 2015 | RTS-6063-1503-09 L6AF | | RHC160LW |

January 19, 2015

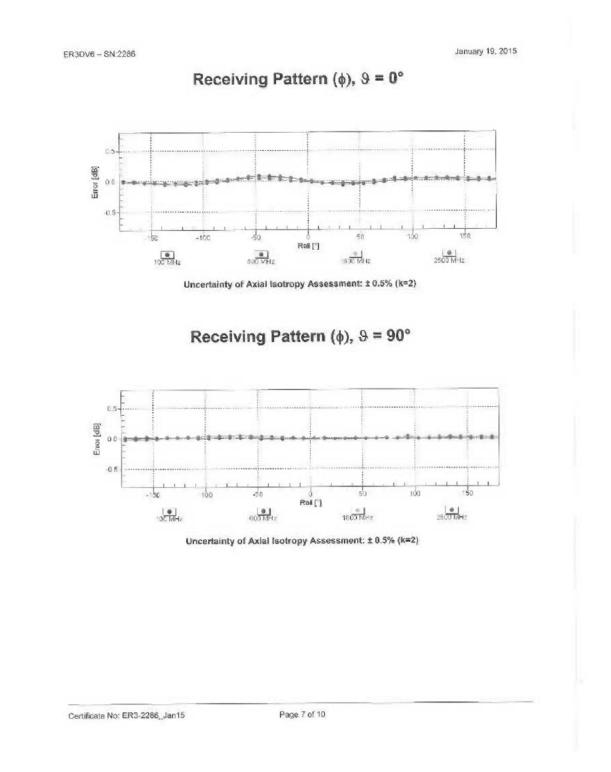
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



Receiving Pattern (\$), & = 90°



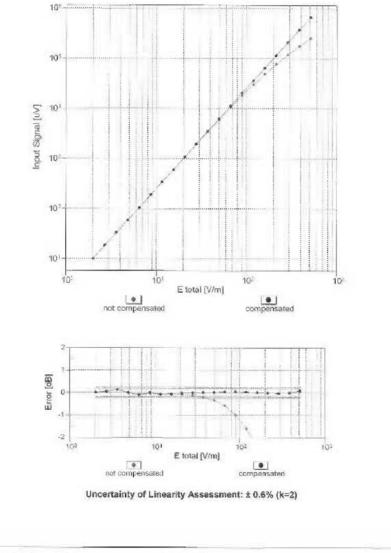
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Dynamic Range f(E-field) (TEM cell, f = 900 MHz)

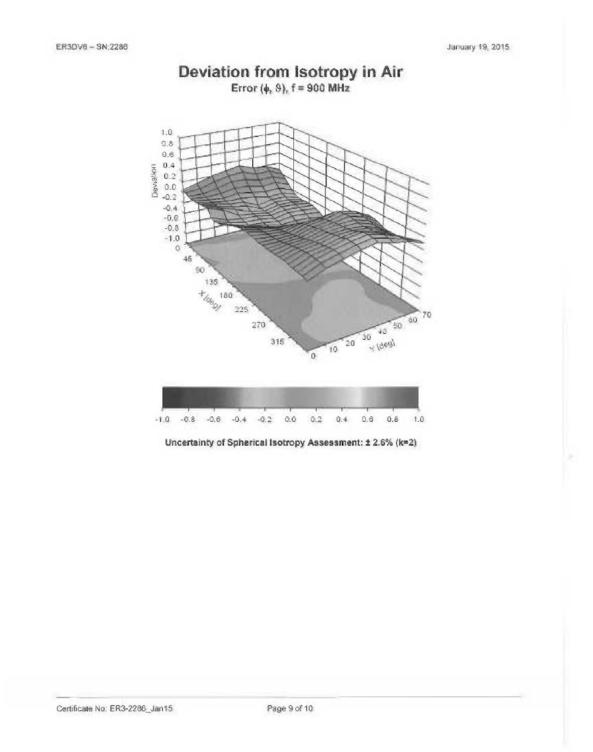


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| Author Data Dates of Test | | | Report No | FCC ID | |
| Daoud Attayi | Feb. 02 | ·17, 2015 | RTS-6063-1503-09 | L6A | RHC160LW |

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

Other Probe Parameters

| Sensor Arrangement | Rectangular |
|---|-------------|
| Connector Angle (°) | -6.5 |
| 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 |
| | |

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