

Hearing Aid Compatibility(HAC)

TEST REPORT

<For RF-Emission measurement>

| | |
|----------------------|---|
| Applicant Name | DELL Inc. |
| Address of Applicant | One Dell Way Round Rock Texas 78682 United States |
| EUT Name | Smart Phone |
| Model Number | V03B002 |
| Date of receive | 2010.07.26 |
| Date of Test(s) | 2009.09.23 |
| Date of Issue | 2009.10.18 |

Standards:

ANSI C63.19-2007

FCC RULE PART(S): 47 CFR PART 20.19(B)

HAC CATEGORY: M3 (M Category)

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Electronics & Communication Laboratory or testing done by SGS Taiwan Electronics & Communication Laboratory in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Electronics & Communication Laboratory in writing.

Tested by :

Ricky Huang

Asst. Supervisor

Approved by:

Nick Hsu

Supervisor Date: 2010/10/18

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Version

| Version No. | Date | Description |
|-------------|---------------|------------------------------|
| 1.0 | Oct. 04, 2010 | Initial issue of report |
| 1.1 | Oct. 18, 2010 | 1 st modification |

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1. Introduction

The purpose of the Hearing Aid Compatibility extension is to enable measurements of the near electric and magnetic fields generated by wireless communication devices in the region controlled for use by a hearing aid in accordance with ANSI-C63.19-2007

FCC has granted a request for waiver of the HAC rules in section 20.19 for dual band GSM handsets. The waiver has specific conditions, as stated in the order (FCC 05-166) and expires 1 August 2006.

The purpose of this standard is to establish categories for hearing aids and for WD (wireless communications devices) that can indicate to health care practitioners and hearing aid users which hearing aids are compatible with which WD, and to provide tests that can be used to assess the electromagnetic characteristics of hearing aids and WD and assign them to these categories. The various parameters required, in order to demonstrate compatibility and accessibility are measured. The design of the standard is such that when a hearing aid and WD achieve one of the categories specified, as measured by the methodology of this standard, the indicated performance is realized.

In order to provide for the usability of a hearing aid with a WD, several factors must be coordinated:

a) Radio frequency (RF) measurements of the near-field electric and magnetic fields emitted by a WD to categorize these emissions for correlation with the RF immunity of a hearing aid.

Hence, the following are measurements made for the WD:

- a) RF E-Field emissions
- b) RF H-Field emissions

The measurement plane is parallel to, and 1.5cm in front of, the reference plane.

Applications for certification of equipment operation under part 20, that a manufacturer is seeking to certify as hearing aid compatible, as set forth in §20.19 of that part, shall include a statement indication compliance with the test requirements of §20.19 and indicating the appropriate U-rating for the equipment. The manufacturer of the equipment shall be responsible for maintaining the test results.

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2. Testing Laboratory

| | |
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| Company address | 134, Wu Kung Road, Wuku Industrial Zone Taipei, Taiwan, R.O.C. |
| Telephone | +886-2-2299-3279 |
| Fax | +886-2-2298-0488 |
| Website | http://www.tw.sgs.com/ |

3. Details of Applicant

| | |
|-------------------|--|
| Applicant Name | DELL Inc. |
| Applicant Address | One Dell Way Round Rock Texas 78682 United States |
| Contact Person | Matthew Samonek |
| TEL | 815-382-4275 |
| E-mail | matthew_samonek@dell.com |

4. Description of EUT

| | |
|----------------|-------------|
| EUT Name | Smart Phone |
| Model Name | V03B002 |
| Brand Name | DELL |
| Marketing Name | Venue |
| TAC Code | 01221200 |
| FCC ID | E2KV03B002 |

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| | | | |
|-------------------|---|--|--|
| Mode of Operation | GSM/GPRS/EGPRS/WCDMA/HSDPA/ HSUPA/WLAN802.11 b/g /n band | | |
|-------------------|---|--|--|

| Definition | Production unit | | |
|--------------------------|--------------------|----------------------|-----------------------|
| Duty Cycle | GSM | GPRS | WCDMA B4 |
| | 1/8 | 1/2 | 1 |
| TX Frequency Range (MHz) | GSM 850 | GSM1900 | WCDMA B4 |
| | 824.2- 848.8MHz | 1850.2- 1909.8MHz | 1712.4- 1752.6 MHz |
| Channel Number (ARFCN) | GSM 850 | GSM1900 | WCDMA B4 |
| | 128-251 | 512- 810 | 1312-1513 |
| VOIP Function | No | | |
| Battery Type | 3.7 V Lithium-Ion | | |
| Antenna Type | Internal Antenna | | |

5. Test Environment

| | |
|---------------------|---------|
| Ambient Temperature | 22.2° C |
| Relative Humidity | <60 % |

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6. System Specifications of DASY4

6.1 Measurement system Diagram for SPEAG Robotic

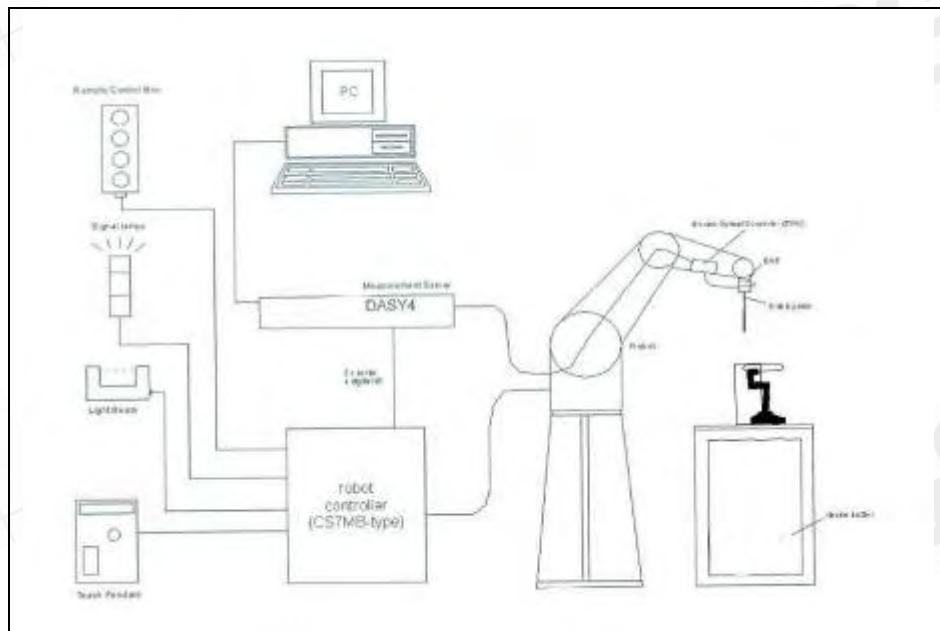


Fig 1. The SPEAG Robotic Diagram

The DASY4 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- E and H Field probe.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 2000 or Windows XP.

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- DASY4 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The Test Arch phantom.
- The device holder for handheld mobile phones.
- Validation dipole kits allowing to validate the proper functioning of the system.

6.2 E and H Field Probe

| | | |
|---------------|--|--|
| Construction | One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges PEEK enclosure material |  ER3DV6 E-Field Probe |
| Calibration | In air from 100 MHz to 3.0 GHz (absolute accuracy $\pm 6.0\%$, $k=2$) | |
| Frequency | 100 MHz to > 6 GHz (extended to 20 MHz for MRI), Linearity: ± 0.2 dB (100 MHz to 3 GHz) | |
| Directivity | ± 0.2 dB in air (rotation around probe axis) ± 0.4 dB in air (rotation normal to probe axis) | |
| Dynamic Range | 2 V/m to > 1000 V/m; Linearity: ± 0.2 dB | |
| 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 | |
| Application | General near-field measurements up to 6 GHz Field component measurements Fast automatic scanning in phantoms | |
| Construction | Three concentric loop sensors with 3.8 mm loop diameters Resistively loaded detector diodes for linear response Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycoether) |  H3DV6 H-Field Probe |
| Frequency | 200 MHz to 3 GHz (absolute accuracy $\pm 6.0\%$, $k=2$); Output linearized | |

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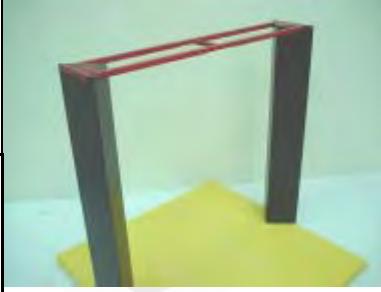
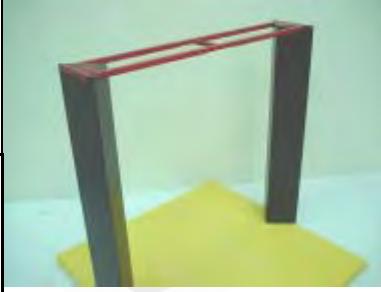
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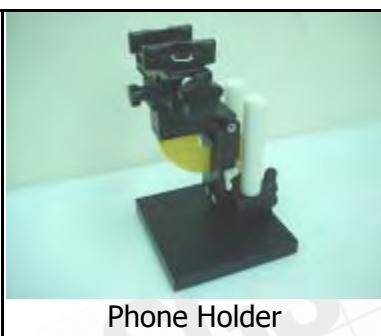
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| | |
|----------------------|---|
| Directivity | ± 0.2 dB (spherical isotropy error) |
| Dynamic Range | 10 mA/m to 2 A/m at 1 GHz |
| E-Field Interference | < 10% at 3 GHz (for plane wave) |
| Dimensions | Overall length: 330 mm (Tip: 40 mm) Tip diameter: 6 mm (Body: 12 mm) Distance from probe tip to dipole centers: 3 mm |
| Application | General magnetic near-field measurements up to 3 GHz (in air or liquids) Field component measurements Surface current measurements Low interaction with the measured field |

6.3 Test Arch

| | | |
|-------------|--|--|
| Description | Enables easy and well defined positioning of the phone and validation dipoles as well as simple teaching of the robot. |  |
| Dimensions | length: 370 mm width: 370 mm height: 370 mm |  |

6.4 Phone Holder

| | | |
|-------------|--|---|
| Description | Supports accurate and reliable positioning of any phone Effect on near field $<+/- 0.5$ dB |  |
|-------------|--|---|

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7. Measurement Procedure

The following illustrate a typical RF emissions test scan over a wireless communications device:

1. Proper operation of the field probe, probe measurement system, other instrumentation, and the positioning system was confirmed.
2. WD is positioned in its intended test position, acoustic output point of the device perpendicular to the field probe.
3. the WD operation for maximum rated RF output power was configured and confirmed with the base station simulator, at the test channel and other normal operating parameters as intended for the test. The battery was ensured to be fully charged before each test.
4. the center sub-grid was centered over the center of the acoustic output (also audio band magnetic output, if applicable). The WD audio output was positioned tangent (as physically possible) to the measurement plane.
5. A surface calibration was performed before each setup change to ensure repeatable spacing and proper maintenance of the measurement plane using the HAC Phantom.
6. The measurement system measured the field strength at the reference location.
7. Measurements at 2mm increments in the 5×5 cm region were performed and recorded. A 360° rotation about the azimuth axis at the maximum interpolated position was measured. For the worst-case condition, the peak reading from this rotation was used in re-evaluating the HAC category.
8. The system performed a drift evaluation by measuring the field at the reference location.
9. Steps 1-8 were done for both the E and H-Field measurements.

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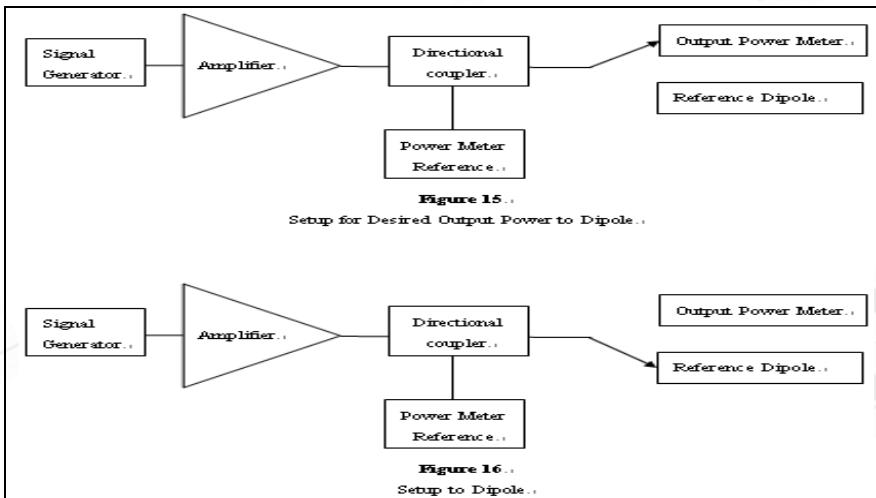
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8. System Verification

A dipole antenna meeting the requirements given in C63.19 was placed in the position normally occupied by the WD.

The length of the dipole was scanned with both E-field and H-field probes and the maximum values for each were recorded.



For E-Field Scan

| Mode | Frequency (MHz) | Input Power(dBm) | Measured Value(V/m) | Target Value(V/m) | Measured Date |
|------|-----------------|------------------|---------------------|-------------------|---------------|
| CW | 835 | 20 | 173.3 | 175 | 2010/09/23 |
| Mode | Frequency (MHz) | Input Power(dBm) | Measured Value(V/m) | Target Value(V/m) | Measured Date |
| CW | 1880 | 20 | 137.4 | 138.4 | 2010/09/23 |

For H-Field Scan

| Mode | Frequency | Input Power | Measured Value(A/m) | Target Value(A/m) | Measured Date |
|------|-----------|-------------|---------------------|-------------------|---------------|
| CW | 835 | 20 | 0.453 | 0.459 | 2010/09/23 |
| Mode | Frequency | Input Power | Measured Value(A/m) | Target Value(A/m) | Measured Date |
| CW | 1880 | 20 | 0.454 | 0.469 | 2010/09/23 |

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9. Probe Modulation Factor

The measurement setup for determination of the PMF is given in DASY4 manual section 28.2. The following points describe the installation, the measurement procedure and the evaluation.

1. Install the field probe in the DASY4 window setup.
2. Mount a validation dipole for the appropriate frequency band under the Test Arch. Move the probe manually to a point of high field strength for the specific field type. The probe may be very close to the dipole and might even touch it. During the fine adjustment of the probe with a signal applied to the dipole, read the x, y and z channel amplitudes in a multimeter job. They should all show a similar amplitude.
3. For comparing the peak amplitudes of modulated and CW signal, the same spectrum analyzer settings are required. The signal path (and setup geometry) between spectrum analyzer and probe must not be changed during the evaluation of the PMF! Only signal type and amplitudes as well as DASY4 settings may be varied.

Spectrum analyzer settings:

- Center Frequency: nominal center frequency of channel
- Span: zero
- Resolution bandwidth \geq emission bandwidth
- Video bandwidth = 20dB
- Detection: RMS detection
- Trigger: Video or IF trigger, adjusted to give a stable display of the transmission
- Sweep rate: Set to show a complete transmission cycle
- Line max hold may be used temporarily to ease the peak reading.

4. Define a DASY4 document and set the procedure properties (frequency as above, modulation frequency and crest factor for the modulated signal) according to the measured signal. Define a multimeter job (continuous mode) for the field reading. The probe shall not move. A predefined document is available.
5. Define a DASY4 document with a procedure for the evaluation of the CW signal (frequency, modulation frequency = 0, crest factor = 1) with a multimeter job.

The HAC measurement procedure is as follows:

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6. Prepare the evaluation sheet for the installed field probe, frequency and modulation type.
7. Modulated signal measurement: Connect the modulated signal using the appropriate frequency via the cable to the setup. Do not move the setup between the following measurements.
8. Run the multimeter job in the procedure with the corresponding modulation setting in continuous mode.
9. Adjust the signal amplitude to achieve the the desired field level display in the multimeter. (A number of levels over the full dynamic range of the probe in the desired range shall be set, including the values read during the WD scans.)
10. Read the total field for the modulated signal.
11. Read the peak envelope signal on the spectrum analyzer.
12. Repeat these readings for other amplitude settings.
13. Switch the signal source off and verify that the ambient and instrumentation noise level is at least 10dB lower (a factor of 3 in field).
14. CW measurement: Change the signal to CW at the same center frequency, without touching or moving dipole or probe in the setup.
15. Adjust the CW signal amplitude to a similar range of peak levels on the spectrum analyzer.
16. Run the multimeter in the CW procedure in continuous mode.
17. Read the multimeter total field display.
18. Read the signal on the spectrum analyzer.
19. Repeat these readings for other amplitude settings.
20. Select the correct type of predefined Excel calculation sheet and insert the readings into the appropriate measurement columns. Conversion from linear DASY readings to logarithmic will be automatically made. The diagrams contain fitting curves for the logarithmic quantities. CW and E-field values will be fitted by linear trend lines, H-field values by quadratic.

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10. Test Standards and Limits

The measurements were performed to ensure compliance to the ANSI C63.19-2007 standard,

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

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11. Instruments List

| Manufacturer | Device | Type | Serial number | Date of last calibration |
|---------------------------------|--|----------------------|---------------|-----------------------------|
| Schmid & Partner Engineering AG | E-Field and H-Field Probe | ER3DV6 H3DV6 | 2306 6142 | Apr.26.2010 Apr.26.2010 |
| Schmid & Partner Engineering AG | 835&1880 MHz System Validation Dipole In Air | CD835V3 CD1880V3 | 1052 1044 | Apr.26.2010 Apr.26.2010 |
| Schmid & Partner Engineering AG | Data acquisition Electronics | DAE4 | 547 | Aug.18.2010 |
| Schmid & Partner Engineering AG | Software | DASY 4 V4.7 Build 80 | N/A | Calibration isn't necessary |
| Agilent | Dielectric Probe Kit | 85070D | US01440168 | Calibration isn't necessary |
| Agilent | Dual-directional coupler | 778D | 50313 | Aug.25.2010 |
| Agilent | RF Signal Generator | 8648D | 3847M00432 | Jun.06.2010 |
| Agilent | Power Sensor | U2001B | MY48100169 | Apr.30.2010 |
| R&S | Radio Communication Test | CMU200 | 113505 | Mar.25.2010 |
| Schmid & Partner Engineering AG | Test Arch SD HAC | P01 | 1047 | N/A |

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12. Summary of Results

E-Field

| E-Field Emission | Channel | Modulation Factor | Conducted Power at BS (dBm) | Measured Drift(%) | Time Avg. Field (V/m) | RESULT | Excl Blocks per 4.3.1.2.2 |
|------------------|---------|-------------------|-----------------------------|-------------------|-----------------------|--------|---------------------------|
| GSM850 | 128 | 2.83 | 32.8 | 0.076 | 133 | M4 | 236 |
| | 190 | 2.83 | 32.7 | -0.040 | 136.5 | M4 | 236 |
| | 251 | 2.83 | 32.6 | 0.035 | 146.8 | M4 | 236 |
| E-Field Emission | Channel | Modulation Factor | Conducted Power at BS (dBm) | Measured Drift(%) | Time Avg. Field (V/m) | RESULT | Excl Blocks per 4.3.1.2.2 |
| GSM1900 | 512 | 2.99 | 30 | 0.088 | 73.5 | M3 | 789 |
| | 661 | 2.99 | 30 | 0.106 | 80.8 | M3 | 789 |
| | 810 | 2.99 | 30 | 0.057 | 72.2 | M3 | 789 |
| E-Field Emission | Channel | Modulation Factor | Conducted Power at BS (dBm) | Measured Drift(%) | Time Avg. Field (V/m) | RESULT | Excl Blocks per 4.3.1.2.2 |
| WCDMA B4 | 1312 | 1 | 22.71 | -0.014 | 31 | M4 | 789 |
| | 1412 | 1 | 22.88 | -0.059 | 41 | M4 | 789 |
| | 1513 | 1 | 22.93 | 0.090 | 41.8 | M4 | 789 |

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H-Filed

| H-Field Emission | Channel | Modulation Factor | Conducted Power at BS (dBm) | Measured Drift(%) | Time Avg. Field (A/m) | RESULT | Excl Blocks per 4.3.1.2.2 |
|------------------|---------|-------------------|-----------------------------|-------------------|-----------------------|--------|---------------------------|
| GSM850 | 128 | 2.98 | 32.8 | 0.074 | 0.207 | M4 | 147 |
| | 190 | 2.98 | 32.7 | 0.042 | 0.219 | M4 | 147 |
| | 251 | 2.98 | 32.6 | 0.051 | 0.237 | M4 | 147 |
| H-Field Emission | Channel | Modulation Factor | Conducted Power at BS (dBm) | Measured Drift(%) | Time Avg. Field (A/m) | RESULT | Excl Blocks per 4.3.1.2.2 |
| GSM1900 | 512 | 2.84 | 30 | -0.013 | 0.213 | M3 | 689 |
| | 661 | 2.84 | 30 | 0.048 | 0.229 | M3 | 689 |
| | 810 | 2.84 | 30 | -0.012 | 0.196 | M3 | 689 |
| H-Field Emission | Channel | Modulation Factor | Conducted Power at BS (dBm) | Measured Drift(%) | Time Avg. Field (A/m) | RESULT | Excl Blocks per 4.3.1.2.2 |
| WCDMA B4 | 1312 | 1 | 22.71 | -0.082 | 0.077 | M4 | 789 |
| | 1412 | 1 | 22.88 | -0.017 | 0.103 | M4 | 478 |
| | 1513 | 1 | 22.93 | 0.000 | 0.104 | M4 | 478 |

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13. Measurement Data

Date: 2010/9/23

HAC_E GSM 850_CH128

DUT:V03B002 :

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$

Maximum value of peak Total field = 133.0 V/m

Probe Modulation Factor = 2.83

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 59.6 V/m; Power Drift = 0.076 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

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Peak E-field in V/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 117.0 M4 | 131.2 M4 | 129.0 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 117.6 M4 | 133.0 M4 | 130.3 M4 |

| Grid 7 | Grid 8 | Grid 9 |
|-----------------|-----------------|-----------------|
| 114.0 M4 | 129.6 M4 | 127.4 M4 |

| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

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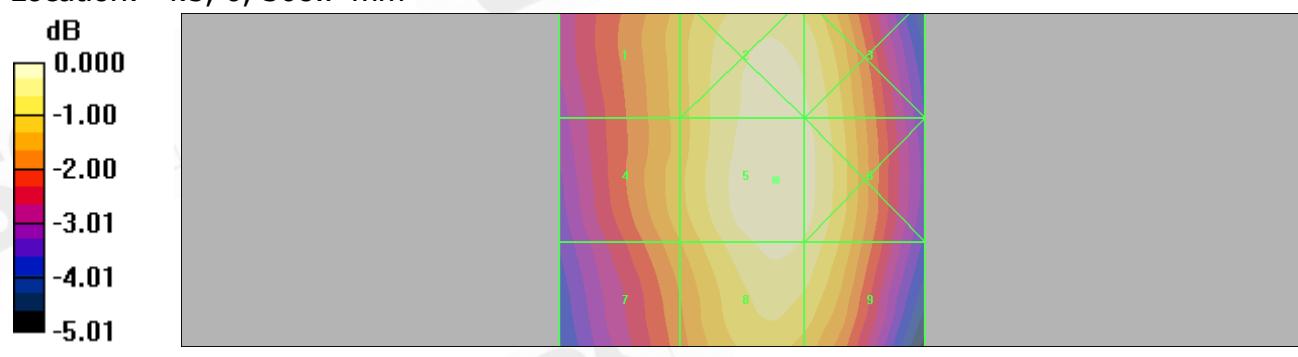
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Cursor:

Total = 133.0 V/m

E Category: M4

Location: -4.5, 0, 368.7 mm



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Date: 2010/9/23

HAC_E GSM 850_CH190

DUT:V03B002 :

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 136.5 V/m

Probe Modulation Factor = 2.83

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 61.3 V/m; Power Drift = -0.040 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 117.9 M4 | 134.6 M4 | 133.0 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 119.0 M4 | 136.5 M4 | 134.9 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 115.4 M4 | 133.4 M4 | 131.7 M4 |

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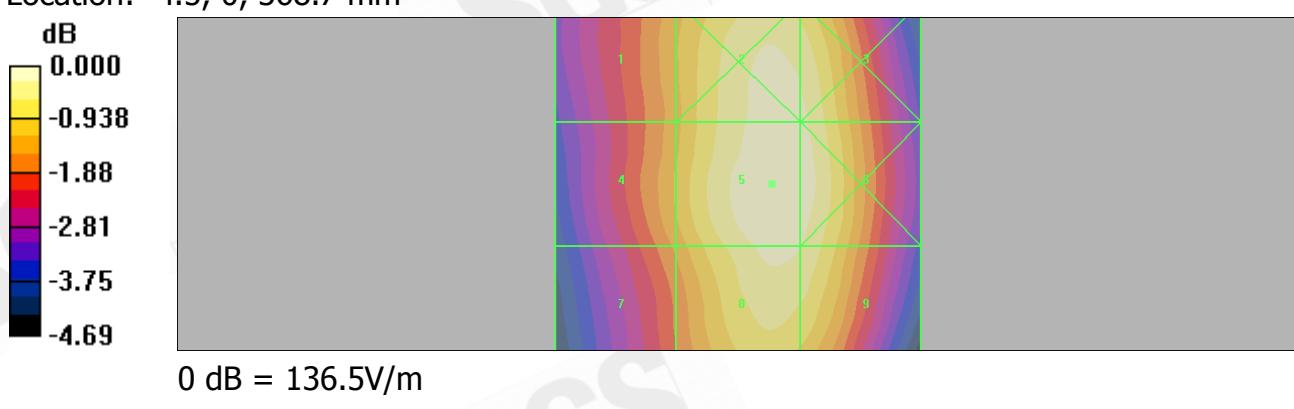
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 136.5 V/m

E Category: M4

Location: -4.5, 0, 368.7 mm



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Date: 2010/9/23

HAC_E GSM 850_CH251

DUT:V03B002 :

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 146.8 V/m

Probe Modulation Factor = 2.83

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 66.0 V/m; Power Drift = 0.035 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 128.1 M4 | 144.8 M4 | 143.5 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 128.6 M4 | 146.8 M4 | 145.5 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 124.9 M4 | 144.2 M4 | 142.3 M4 |

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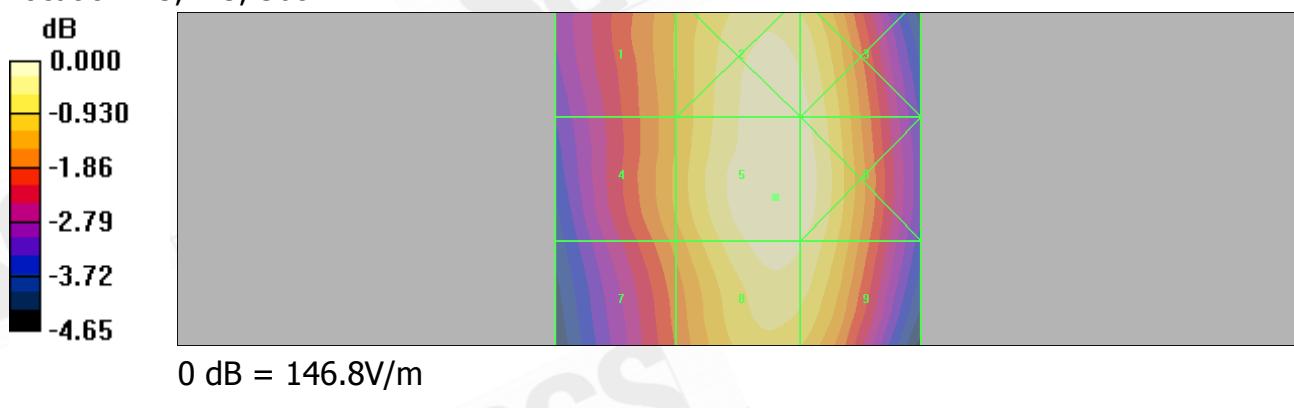
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 146.8 V/m

E Category: M4

Location: -5, 2.5, 368.7 mm



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Date: 2010/9/23

HAC_E GSM 1900_CH512

DUT:V03B002 :

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 73.5 V/m

Probe Modulation Factor = 2.99

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 18.7 V/m; Power Drift = 0.088 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

| Grid 1 | Grid 2 | Grid 3 |
|----------------|----------------|----------------|
| 53.4 M3 | 73.5 M3 | 73.2 M3 |
| Grid 4 | Grid 5 | Grid 6 |
| 44.5 M4 | 62.1 M3 | 62.3 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 78.2 M3 | 67.8 M3 | 58.8 M3 |

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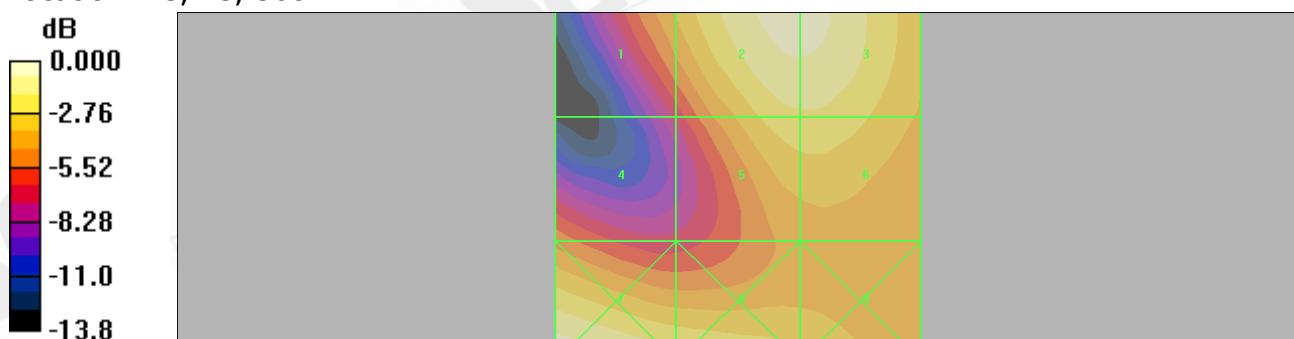
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 78.2 V/m

E Category: M3

Location: 25, 25, 368.7 mm



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Date: 2010/9/23

HAC_E GSM 1900_CH661

DUT:V03B002 :

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$

Maximum value of peak Total field = 80.8 V/m

Probe Modulation Factor = 2.99

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 20.1 V/m; Power Drift = 0.106 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

| Grid 1 | Grid 2 | Grid 3 |
|----------------|----------------|----------------|
| 55.8 M3 | 80.8 M3 | 80.7 M3 |
| Grid 4 | Grid 5 | Grid 6 |
| 51.8 M3 | 67.8 M3 | 68.3 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 86.6 M2 | 78.0 M3 | 69.6 M3 |

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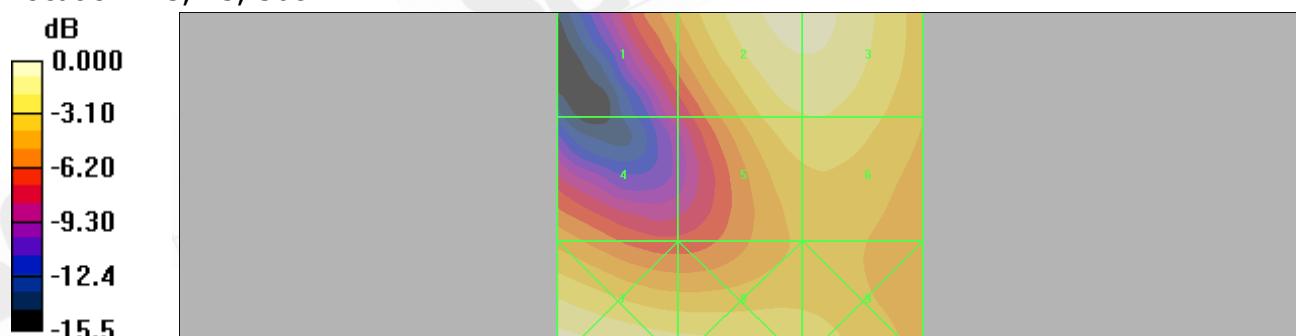
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 86.6 V/m

E Category: M2

Location: 25, 25, 368.7 mm



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Date: 2010/9/23

HAC_E GSM 1900_CH810

DUT:V03B002 :

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 72.2 V/m

Probe Modulation Factor = 2.99

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 19.7 V/m; Power Drift = 0.057 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

| Grid 1 | Grid 2 | Grid 3 |
|----------------|----------------|----------------|
| 46.9 M4 | 72.2 M3 | 72.2 M3 |
| Grid 4 | Grid 5 | Grid 6 |
| 47.4 M3 | 63.1 M3 | 63.8 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 75.8 M3 | 70.9 M3 | 65.8 M3 |

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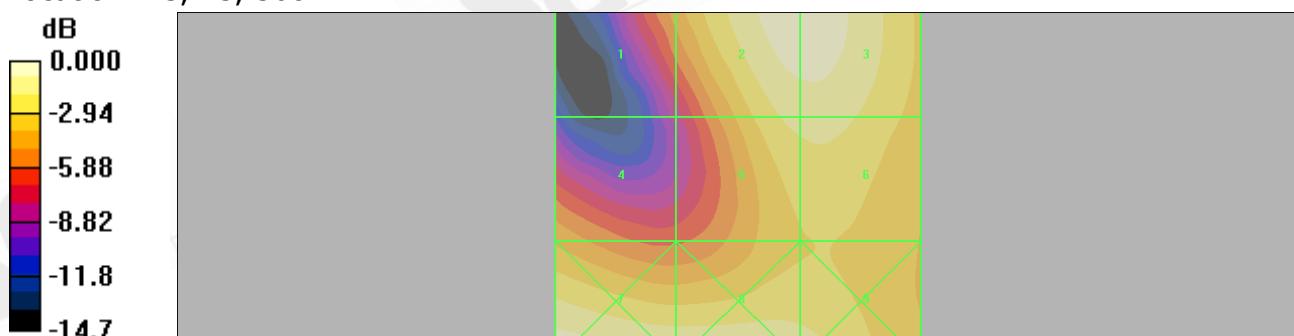
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 75.8 V/m

E Category: M3

Location: 25, 25, 368.7 mm



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Date: 2010/9/23

HAC_E WCDMA B4_CH1312

DUT:V03B002 ;

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 31.0 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 20.5 V/m; Power Drift = -0.014 dB

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

Peak E-field in V/m

| Grid 1 | Grid 2 | Grid 3 |
|----------------|----------------|----------------|
| 24.1 M4 | 31.0 M4 | 30.9 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 19.2 M4 | 24.9 M4 | 25.0 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 32.2 M4 | 25.3 M4 | 21.1 M4 |

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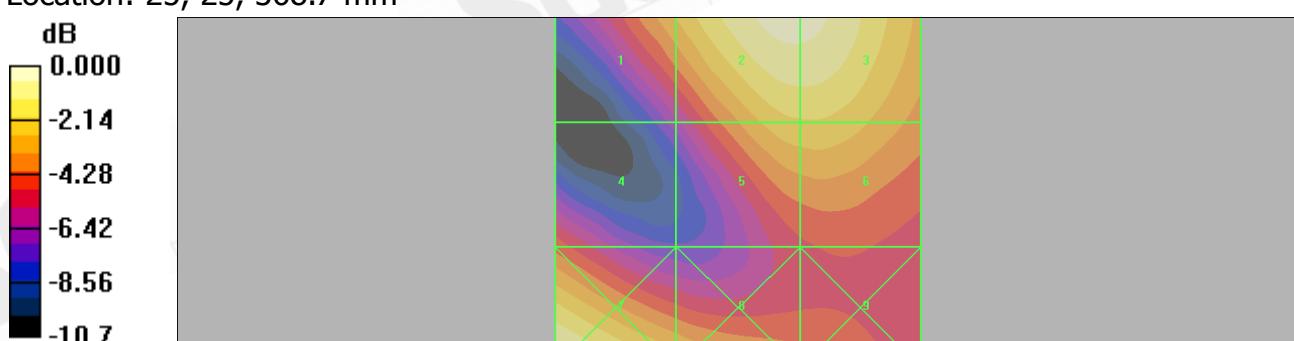
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 32.2 V/m

E Category: M4

Location: 25, 25, 368.7 mm



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Date: 2010/9/23

HAC_E WCDMA B4_CH1412

DUT:V03B002 ;

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$

Maximum value of peak Total field = 41.0 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 27.5 V/m; Power Drift = -0.059 dB

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

Peak E-field in V/m

| Grid 1 | Grid 2 | Grid 3 |
|----------------|----------------|----------------|
| 31.4 M4 | 41.0 M4 | 41.0 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 26.5 M4 | 33.2 M4 | 33.3 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 43.4 M4 | 35.4 M4 | 29.7 M4 |

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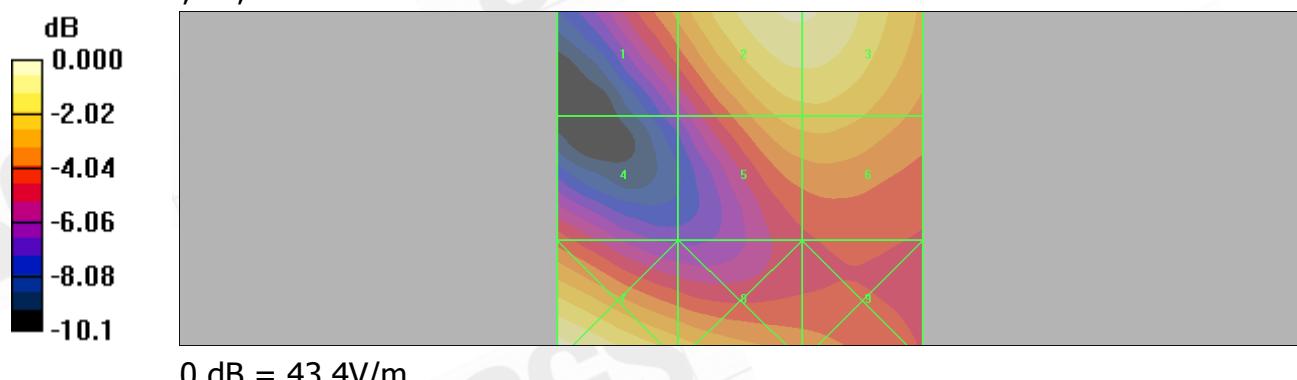
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 43.4 V/m

E Category: M4

Location: 25, 25, 368.7 mm



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Date: 2010/9/23

HAC_E WCDMA B4_CH1513

DUT:V03B002 ;

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$

Maximum value of peak Total field = 41.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 28.6 V/m; Power Drift = 0.090 dB

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

Peak E-field in V/m

| Grid 1 | Grid 2 | Grid 3 |
|----------------|----------------|----------------|
| 32.1 M4 | 41.8 M4 | 41.7 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 26.3 M4 | 34.1 M4 | 34.3 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 42.5 M4 | 35.9 M4 | 30.7 M4 |

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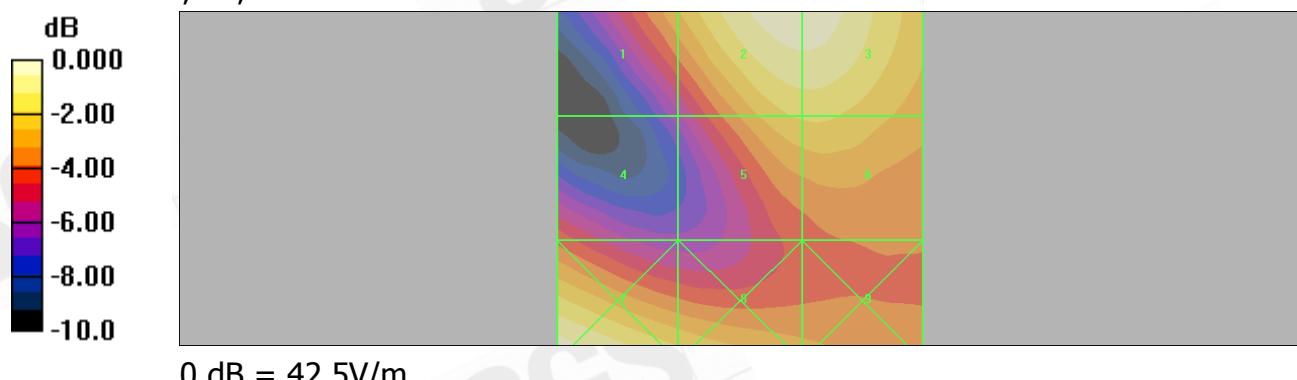
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 42.5 V/m

E Category: M4

Location: 25, 25, 368.7 mm



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Date: 2010/9/23

HAC_H_GSM 850_CH128

DUT:V03B002 ;

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6142; ; Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.207 A/m

Probe Modulation Factor = 2.98

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.051 A/m; Power Drift = 0.074 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 0.285 M4 | 0.207 M4 | 0.125 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.268 M4 | 0.194 M4 | 0.116 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.283 M4 | 0.204 M4 | 0.124 M4 |

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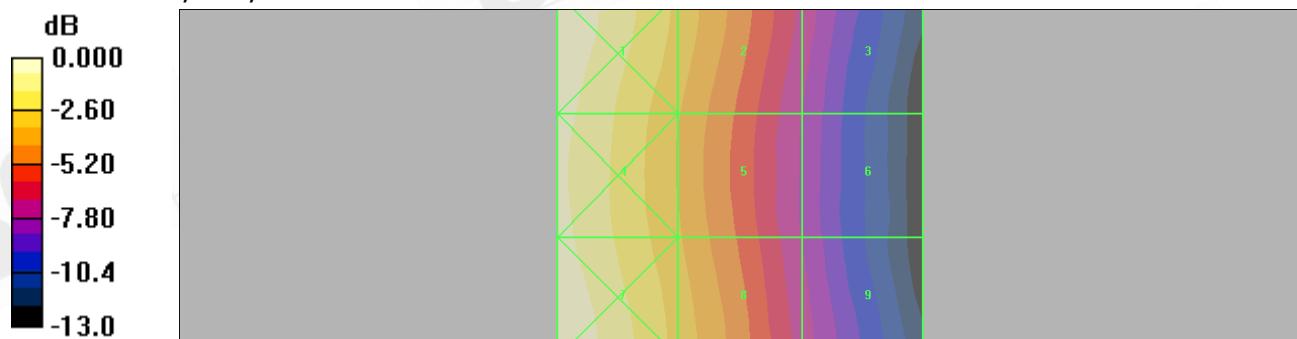
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.285 A/m

H Category: M4

Location: 25, -25, 368.7 mm



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Date: 2010/9/23

HAC_H_GSM 850_CH190

DUT:V03B002 ;

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6142; ; Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.219 A/m

Probe Modulation Factor = 2.98

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.052 A/m; Power Drift = 0.042 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 0.300 M4 | 0.219 M4 | 0.134 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.278 M4 | 0.202 M4 | 0.121 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.289 M4 | 0.209 M4 | 0.123 M4 |

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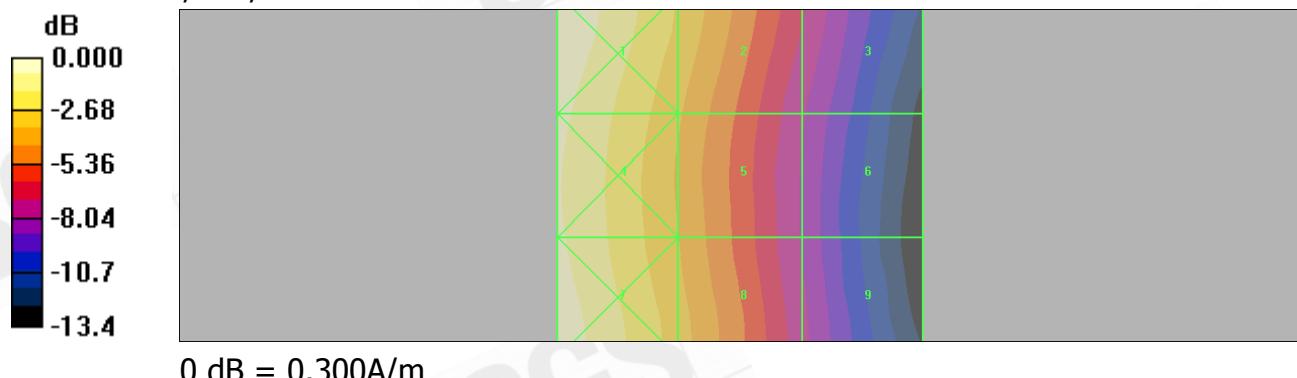
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.300 A/m

H Category: M4

Location: 25, -25, 368.7 mm



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Date: 2010/9/23

HAC_H_GSM 850_CH251

DUT:V03B002 ;

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6142; ; Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.237 A/m

Probe Modulation Factor = 2.98

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.056 A/m; Power Drift = 0.051 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 0.326 M4 | 0.237 M4 | 0.144 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.303 M4 | 0.219 M4 | 0.130 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.313 M4 | 0.225 M4 | 0.131 M4 |

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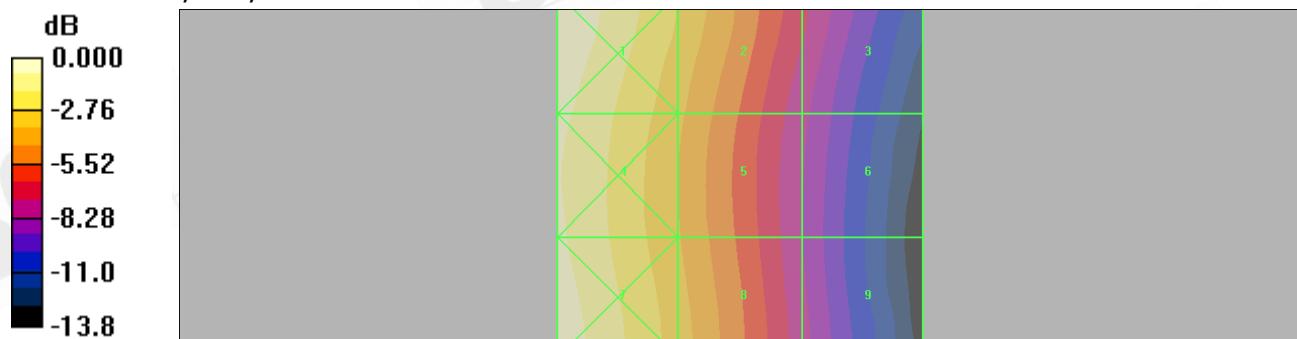
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.326 A/m

H Category: M4

Location: 25, -25, 368.7 mm



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Date: 2010/9/23

HAC_H_GSM 1900_CH512

DUT:V03B002 ;

Communication System: GSM1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6142; ; Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.213 A/m

Probe Modulation Factor = 2.84

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.079 A/m; Power Drift = -0.013 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

| Grid 1 0.184 M3 | Grid 2 0.189 M3 | Grid 3 0.180 M3 |
|---------------------------|---------------------------|---------------------------|
| Grid 4 0.194 M3 | Grid 5 0.213 M3 | Grid 6 0.212 M3 |
| Grid 7 0.209 M3 | Grid 8 0.217 M3 | Grid 9 0.215 M3 |

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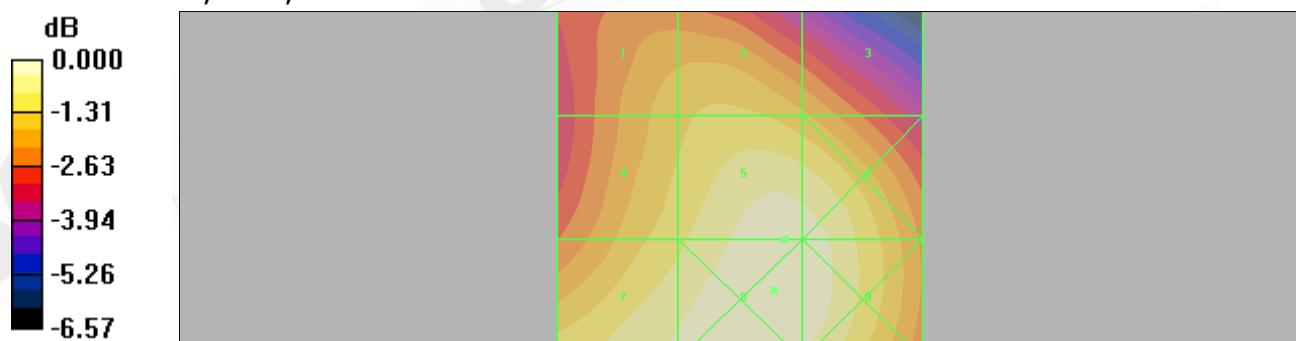
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.217 A/m

H Category: M3

Location: -4.5, 15.5, 368.7 mm



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Date: 2010/9/23

HAC_H_GSM 1900_CH661

DUT:V03B002 ;

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6142; ; Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.229 A/m

Probe Modulation Factor = 2.84

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.083 A/m; Power Drift = 0.048 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

| Grid 1 0.201 M3 | Grid 2 0.207 M3 | Grid 3 0.196 M3 |
|---------------------------|---------------------------|---------------------------|
| Grid 4 0.204 M3 | Grid 5 0.229 M3 | Grid 6 0.228 M3 |
| Grid 7 0.217 M3 | Grid 8 0.230 M3 | Grid 9 0.229 M3 |

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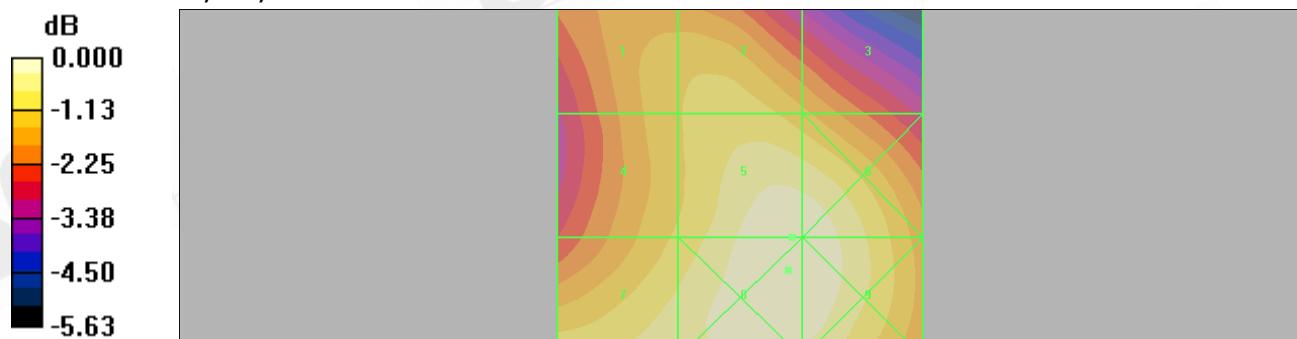
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.230 A/m

H Category: M3

Location: -6.5, 13, 368.7 mm



0 dB = 0.230A/m

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Date: 2010/9/23

HAC_H_GSM 1900_CH810

DUT:V03B002 ;

Communication System: GSM1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6142; ; Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.196 A/m

Probe Modulation Factor = 2.84

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.070 A/m; Power Drift = -0.012 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 0.172 M3 | 0.176 M3 | 0.166 M3 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.171 M3 | 0.196 M3 | 0.195 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.188 M3 | 0.198 M3 | 0.197 M3 |

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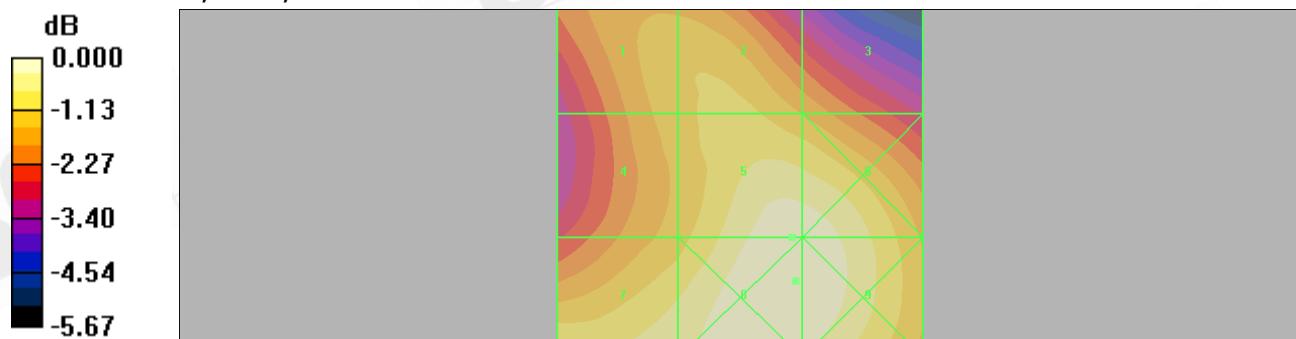
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.198 A/m

H Category: M3

Location: -7.5, 14.5, 368.7 mm



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Date: 2010/9/23

HAC_H_WCDMA B4_CH1312

DUT:V03B002 ;

Communication System: WCDMA BAND4; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6142; ; Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$

Maximum value of peak Total field = 0.077 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.081 A/m; Power Drift = -0.082 dB

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

Peak H-field in A/m

| Grid 1 0.077 M4 | Grid 2 0.074 M4 | Grid 3 0.067 M4 |
|---------------------------|---------------------------|---------------------------|
| Grid 4 0.076 M4 | Grid 5 0.077 M4 | Grid 6 0.076 M4 |
| Grid 7 0.086 M4 | Grid 8 0.084 M4 | Grid 9 0.076 M4 |

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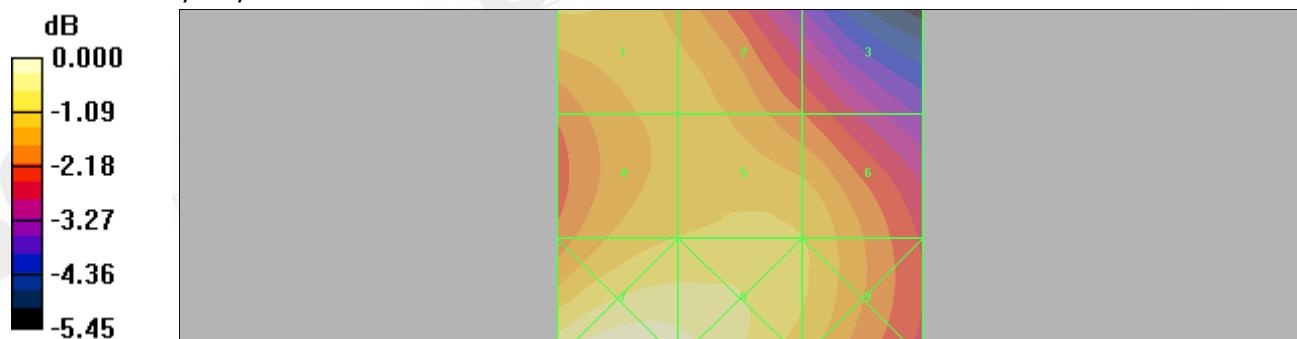
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.086 A/m

H Category: M4

Location: 16, 25, 368.7 mm



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Date: 2010/9/23

HAC_H_WCDMA B4_CH1412

DUT:V03B002 ;

Communication System: WCDMA BAND4; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6142; ; Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$

Maximum value of peak Total field = 0.103 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.103 A/m; Power Drift = -0.017 dB

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

Peak H-field in A/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 0.103 M4 | 0.096 M4 | 0.086 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.097 M4 | 0.098 M4 | 0.096 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.105 M4 | 0.104 M4 | 0.096 M4 |

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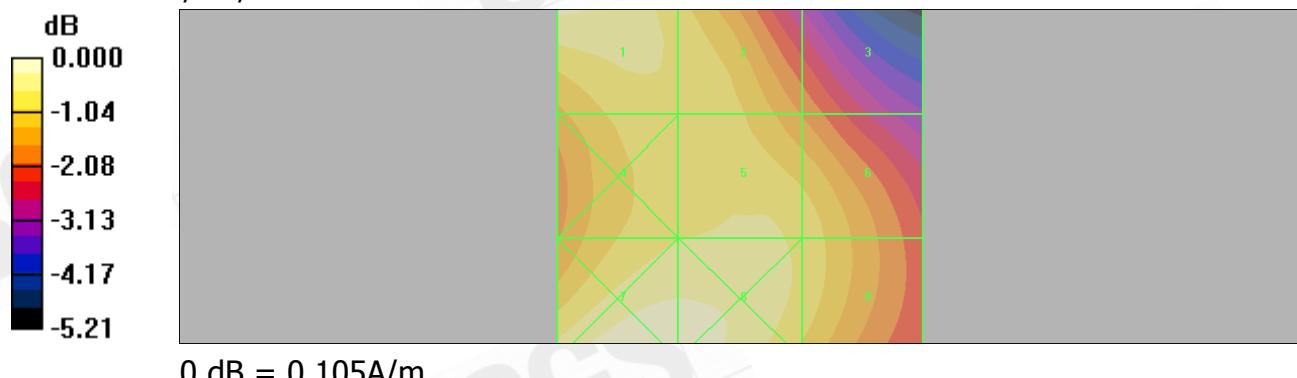
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.105 A/m

H Category: M4

Location: 12, 25, 368.7 mm



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Date: 2010/9/23

HAC_H_WCDMA B4_CH1513

DUT:V03B002 ;

Communication System: WCDMA BAND4; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$

Phantom section: H Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6142; ; Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - measurement distance from the probe sensor center to the Device = 15mm/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$

Maximum value of peak Total field = 0.104 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.111 A/m; Power Drift = 0.000 dB

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

Peak H-field in A/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 0.102 M4 | 0.102 M4 | 0.091 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.102 M4 | 0.104 M4 | 0.101 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.106 M4 | 0.106 M4 | 0.101 M4 |

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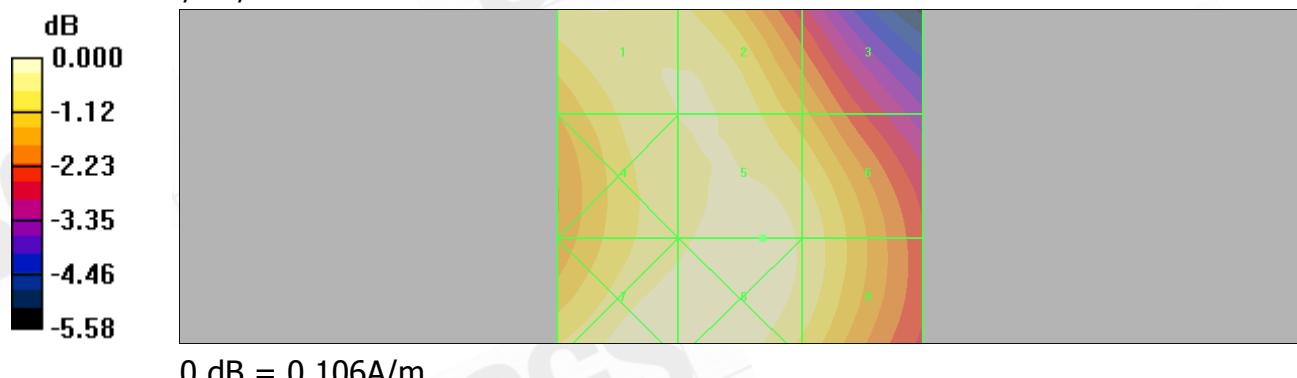
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.106 A/m

H Category: M4

Location: 10, 25, 368.7 mm



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14. System Verification

Date: 2010/9/23

DUT: HAC-Dipole 835 MHz;

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

Medium: Air Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: E Dipole Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid

Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 173.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 117.2 V/m; Power Drift = 0.002 dB

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

Peak E-field in V/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 170.0 M4 | 173.3 M4 | 168.7 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 92.2 M4 | 93.8 M4 | 90.3 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 180.9 M4 | 189.5 M4 | 185.7 M4 |

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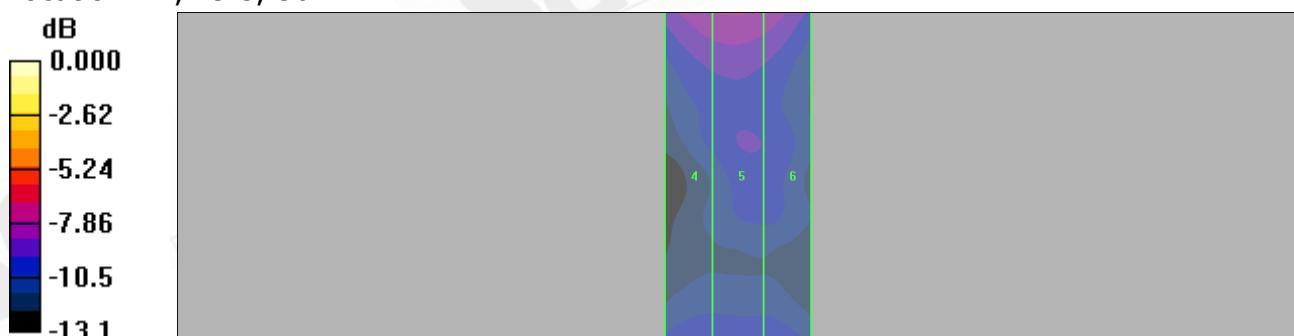
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 189.5 V/m

E Category: M4

Location: -1, 79.5, 364.7 mm



0 dB = 189.5V/m

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Date: 2010/9/23

DUT: HAC-Dipole 835 MHz;

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6142; ; Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.453 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.480 A/m; Power Drift = 0.018 dB

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

Peak H-field in A/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 0.371 M4 | 0.403 M4 | 0.389 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.414 M4 | 0.453 M4 | 0.442 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.370 M4 | 0.408 M4 | 0.399 M4 |

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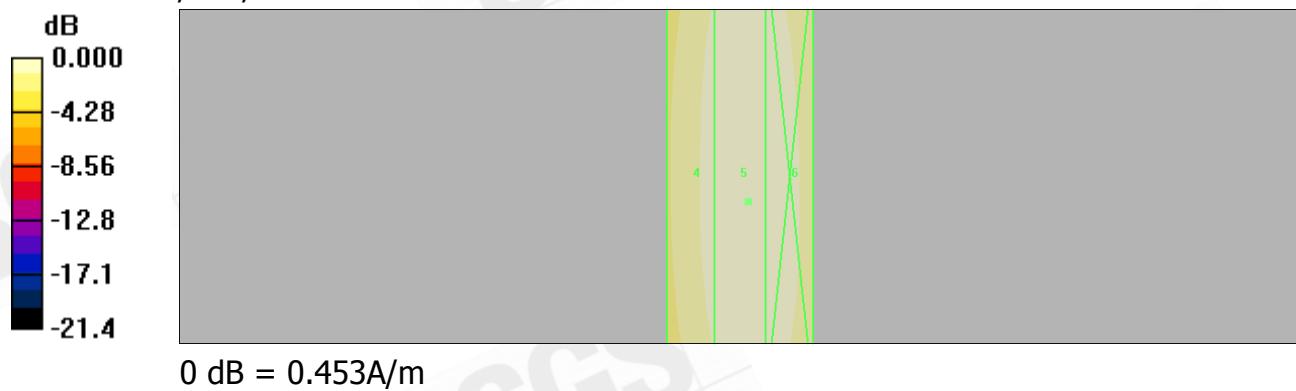
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.453 A/m

H Category: M4

Location: -1, 3.5, 364.7 mm



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Date: 2010/9/23

DUT: HAC-Dipole 1880MHz;

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

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

Phantom section: E Dipole Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2306; ConvF(1, 1, 1); Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid**Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 137.4 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 177.3 V/m; Power Drift = 0.025 dB

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

Peak E-field in V/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 133.5 M2 | 137.4 M2 | 134.5 M2 |
| Grid 4 | Grid 5 | Grid 6 |
| 106.1 M3 | 108.0 M3 | 105.5 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 150.5 M2 | 157.6 M2 | 154.1 M2 |

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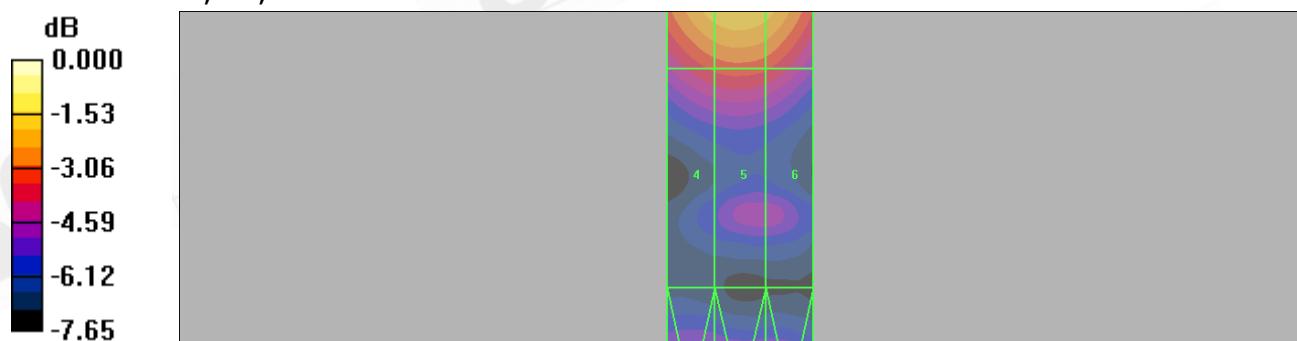
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 157.6 V/m

E Category: M2

Location: -0.5, 43, 364.7 mm



0 dB = 157.6V/m

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Date: 2010/9/23

DUT: HAC-Dipole 1880MHz;

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6142; ; Calibrated: 2010/4/26
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2010/8/18
- Phantom: HAC Test Arch 4.6; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.454 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.482 A/m; Power Drift = -0.099 dB

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

Peak H-field in A/m

| Grid 1 | Grid 2 | Grid 3 |
|-----------------|-----------------|-----------------|
| 0.376 M2 | 0.412 M2 | 0.408 M2 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.417 M2 | 0.454 M2 | 0.448 M2 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.390 M2 | 0.426 M2 | 0.416 M2 |

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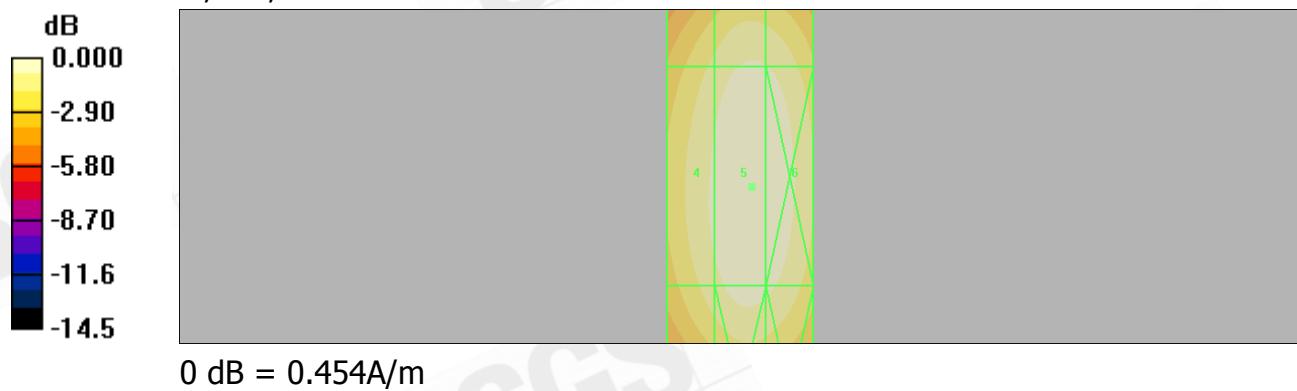
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) > 960MHz | Limits for H-Field Emissions (A/m) > 960MHz |
|----------|----------|---|--|
| M1 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M2 | 0 | 112.2 - 199.5 | 0.34 - 0.6 |
| | -5 | 84.1 - 149.6 | 0.25 - 0.45 |
| M3 | 0 | 63.1 - 112.2 | 0.19 - 0.34 |
| | -5 | 47.3 - 84.1 | 0.14 - 0.25 |
| M4 | 0 | <63.1 | <0.19 |
| | -5 | <47.3 | <0.14 |
| Category | AWF (dB) | Limits for E-Field Emissions (V/m) < 960MHz | Limits for H-Field Emissions (A/m) < 960 MHz |
| M1 | 0 | 631 - 1122 | 1.91 - 3.39 |
| | -5 | 473.2 - 841.4 | 1.43 - 2.54 |
| M2 | 0 | 354.8 - 631 | 1.07 - 1.91 |
| | -5 | 266.1 - 473.2 | 0.8 - 1.43 |
| M3 | 0 | 199.5 - 354.8 | 0.6 - 1.07 |
| | -5 | 149.6 - 266.1 | 0.45 - 0.8 |
| M4 | 0 | <199.5 | <0.6 |
| | -5 | <149.6 | <0.45 |

Cursor:

Total = 0.454 A/m

H Category: M2

Location: -1.5, 1.5, 364.7 mm



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



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

Accreditation No.: SCS 108

Client SGS-TW

Certificate No: DAE4-547_Aug10

CALIBRATION CERTIFICATE

Object DAE4 - SD 000 D04 BJ - SN: 547

Calibration procedure(s) QA CAL-06.v22
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: August 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 |
|-------------------------------|--------------------|----------------------------|------------------------|
| Keithley Multimeter Type 2001 | SN: 0810278 | 1-Oct-09 (No: 9055) | Oct-10 |
| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
| Calibrator Box V1.1 | SE UMS 006 AB 1004 | 07-Jun-10 (in house check) | In house check: Jun-11 |

| | | | |
|----------------|-------------------------|------------------------|------------|
| Calibrated by: | Name: Dominique Steffen | Function: Technician | Signature: |
| Approved by: | Name: Fin Bomholt | Function: R&D Director | Signature: |

Issued: August 18, 2010

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

Certificate No: DAE4-547_Aug10

Page 1 of 5

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Client SGS-TW (Auden)

Certificate No: ER3-2306_Apr10

CALIBRATION CERTIFICATE

Object ER3DV6 - SN:2306

Calibration procedure(s) QA CAL-02.v5 and QA CAL-25.v2
Calibration procedure for E-field probes optimized for close near field evaluations in air

Calibration date: April 26, 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 $(22 \pm 3)^\circ\text{C}$ and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|----------------------------|-----------------|--------------------------------|-----------------------|
| Power meter E4419B | GB41293874 | 1-Apr-10 (No. 217-01136) | Apr-11 |
| Power sensor E4412A | MY41495277 | 1-Apr-10 (No. 217-01136) | Apr-11 |
| Power sensor E4412A | MY41498087 | 1-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 | 3-Oct-09 (No. ER3-2328_Oct09) | Oct-10 |
| DAE4 | SN: 789 | 23-Dec-09 (No. DAE4-789_Dec09) | Dec-10 |

| 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-09) | In house check: Oct10 |

| Calibrated by: | Name | Function | Signature |
|----------------|----------------|-----------------------|-----------|
| | Jeton Kastrati | Laboratory Technician | |

| Approved by: | Name | Function | Signature |
|--------------|---------------|-------------------|-----------|
| | Katja Pokovic | Technical Manager | |

Issued: April 27, 2010

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Certificate No: ER3-2306_Apr10

Page 1 of 10

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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:

- 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 ($f \leq 900$ 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 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 $NORMx$ (no uncertainty required).

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ER3DV6 SN:2306

April 26, 2010

Probe ER3DV6

SN:2306

Manufactured: December 17, 2002
Last calibrated: April 27, 2009
Recalibrated: April 26, 2010

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

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ER3DV6 SN:2306

April 26, 2010

DASY - Parameters of Probe: ER3DV6 SN:2306**Basic Calibration Parameters**

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|-------------------------------------|----------|----------|----------|--------------|
| Norm (μ V/(V/m) ²) | 1.10 | 1.13 | 1.26 | $\pm 10.1\%$ |
| DCP (mV) ^A | 97.8 | 99.1 | 102.8 | |

Modulation Calibration Parameters

| UID | Communication System Name | PAR | | A dB | B dBuV | C | VR mV | Unc ^E (k=2) |
|-------|---------------------------|------|-------------|----------------------|----------------------|----------------------|-------------------|---------------------------|
| 10000 | CW | 0.00 | X Y Z | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 1.00 1.00 1.00 | 300 300 300 | $\pm 1.5\%$ |

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%.

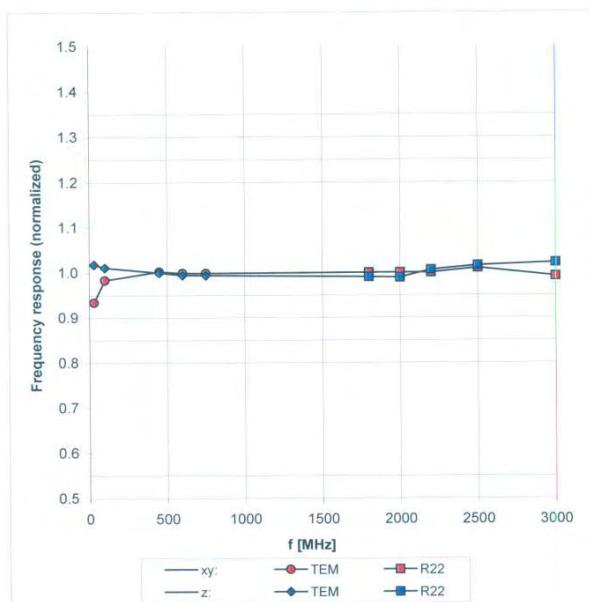
^A numerical linearization parameter: uncertainty not required^E Uncertainty is determined using the maximum deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

ER3DV6 SN:2306

April 26, 2010

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide R22)

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

Certificate No: ER3-2306_Apr10

Page 5 of 10

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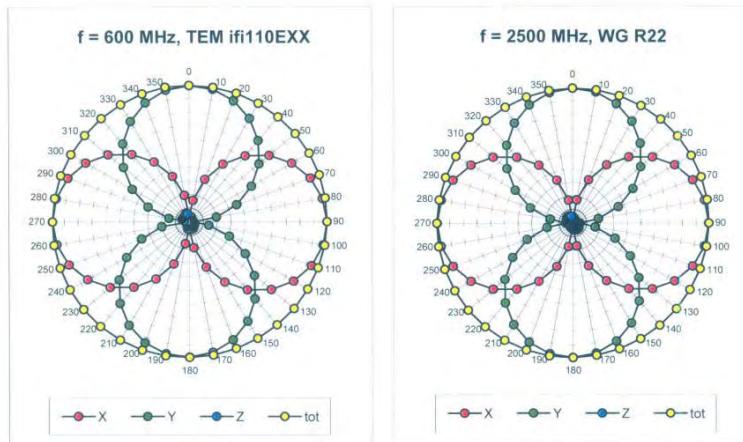
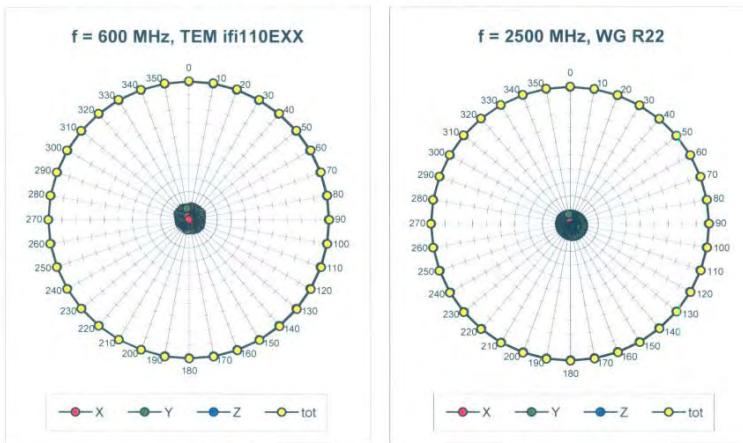
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ER3DV6 SN:2306

April 26, 2010

Receiving Pattern (ϕ), $\theta = 0^\circ$ Receiving Pattern (ϕ), $\theta = 90^\circ$ 

Certificate No: ER3-2306_Apr10

Page 6 of 10

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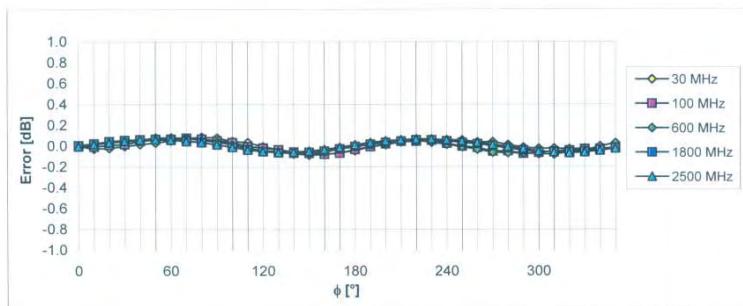
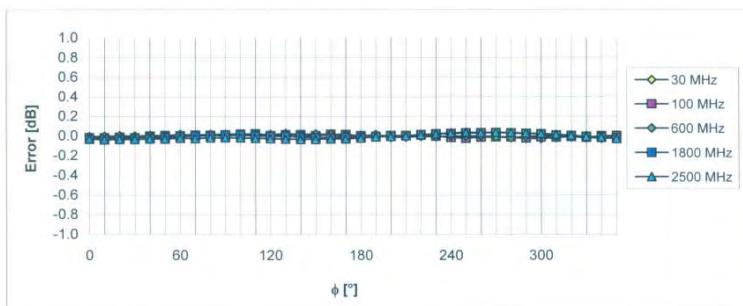
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ER3DV6 SN:2306

April 26, 2010

Receiving Pattern (ϕ), $\theta = 0^\circ$ Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)Receiving Pattern (ϕ), $\theta = 90^\circ$ Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Certificate No: ER3-2306_Apr10

Page 7 of 10

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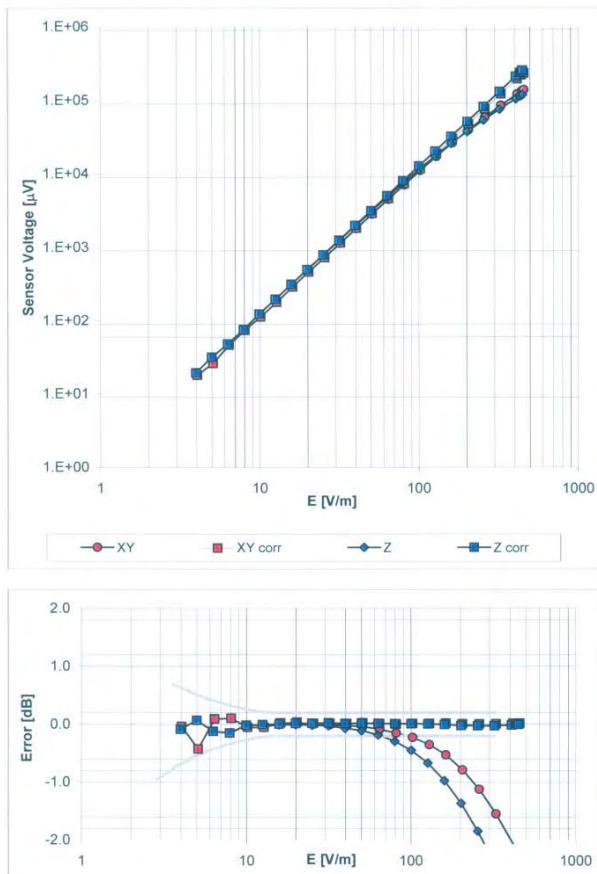
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ER3DV6 SN:2306

April 26, 2010

Dynamic Range f(E-field) (Waveguide R22, f = 1800 MHz)



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

Certificate No: ER3-2306_Apr10

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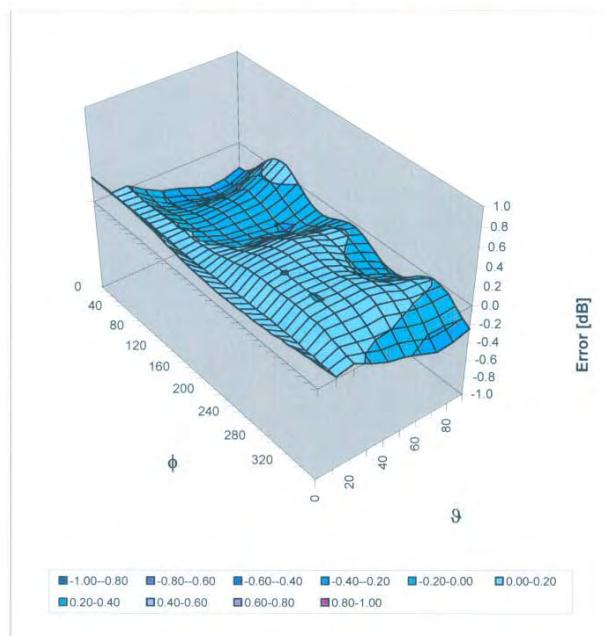
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ER3DV6 SN:2306

April 26, 2010

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



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

Certificate No: ER3-2306_Apr10

Page 9 of 10

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ER3DV6 SN:2306

April 26, 2010

Other Probe Parameters

| | |
|---|-------------|
| Sensor Arrangement | Rectangular |
| Connector Angle (°) | -223.7 |
| 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 | 8.0 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 |

Certificate No: ER3-2306_Apr10

Page 10 of 10

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Accreditation No.: SCS 108

Client SGS-TW (Auden)

Certificate No: H3-6142_Apr10

CALIBRATION CERTIFICATE

Object H3DV6 - SN:6142

Calibration procedure(s) QA CAL-03.v5 and QA CAL-25.v2
Calibration procedure for H-field probes optimized for close near field evaluations in air

Calibration date: April 26, 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 |
|----------------------------|-----------------|--------------------------------|-----------------------|
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| Power sensor E4412A | MY41495277 | 1-Apr-10 (No. 217-01136) | Apr-11 |
| Power sensor E4412A | MY41498087 | 1-Apr-10 (No. 217-01136) | Apr-11 |
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| Reference 30 dB Attenuator | SN: S5129 (30b) | 30-Mar-10 (No. 217-01160) | Mar-11 |
| Reference Probe H3DV6 | SN: 6182 | 3-Oct-09 (No. H3-6182_Oct09) | Oct-10 |
| DAE4 | SN: 789 | 23-Dec-09 (No. DAE4-789_Dec09) | Dec-10 |

| 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-09) | In house check: Oct10 |

| Calibrated by: | Name | Function | Signature |
|----------------|----------------|-----------------------|-----------|
| | Jeton Kastrati | Laboratory Technician | |

| Approved by: | Name | Function | Signature |
|--------------|---------------|-------------------|-----------|
| | Katja Pokovic | Technical Manager | |

Issued: April 27, 2010

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Certificate No: H3-6142_Apr10

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Calibration Laboratory of
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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:

- 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:

- $NORM_{x,y,z}$: 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).
- $DCP_{x,y,z}$: 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.
- $Ax, y, z; Bx, y, z; Cx, y, z; VRx, y, z$: 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:6142

April 26, 2010

Probe H3DV6

SN:6142

Manufactured: July 3, 2002
Last calibrated: April 27, 2009
Recalibrated: April 26, 2010

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: H3-6142_Apr10

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H3DV6 SN:6142

April 26, 2010

DASY - Parameters of Probe: H3DV6 SN:6142

Basic Calibration Parameters

| | | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|-----------------------|----|----------|----------|----------|-----------|
| Norm (A/m / ∛(μV)) | a0 | 2.73E-3 | 2.71E-3 | 3.08E-3 | ± 5.1% |
| Norm (A/m / ∛(μV)) | a1 | -6.53E-5 | -1.16E-4 | -3.09E-4 | ± 5.1% |
| Norm (A/m / ∛(μV)) | a2 | -1.83E-5 | 4.57E-6 | 3.49E-5 | ± 5.1% |
| DCP (mV) ^A | | 91.3 | 82.0 | 82.1 | |

Modulation Calibration Parameters

| UID | Communication System Name | PAR | | A dB | B dBuV | C | VR mV | Unc ^E (k=2) |
|-------|---------------------------|------|-------------|----------------------|----------------------|----------------------|-------------------|---------------------------|
| 10000 | CW | 0.00 | X Y Z | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 1.00 1.00 1.00 | 300 300 300 | ± 1.5 % |

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 numerical linearization parameter: uncertainty not required^E Uncertainty is determined using the maximum deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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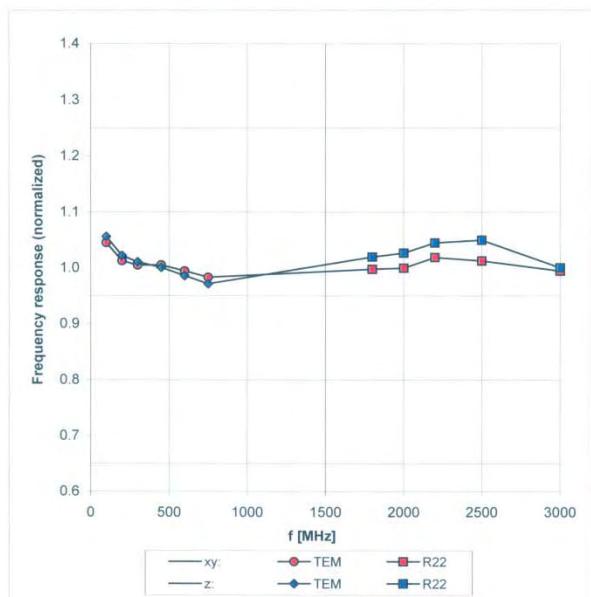
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April 26, 2010

Frequency Response of H-Field

(TEM-Cell:ifi110 EXX, Waveguide R22)

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

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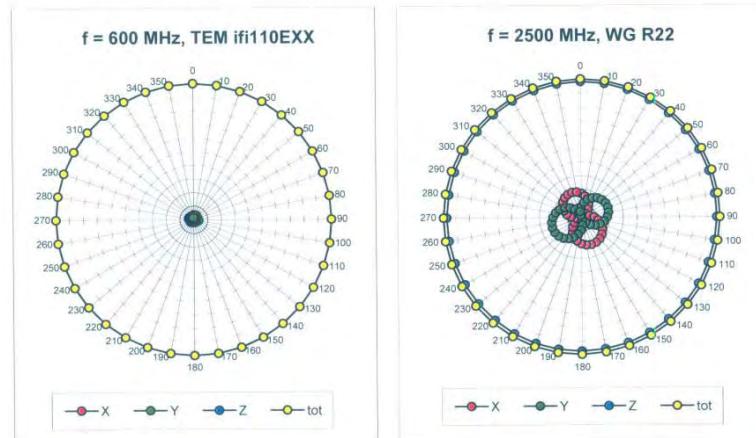
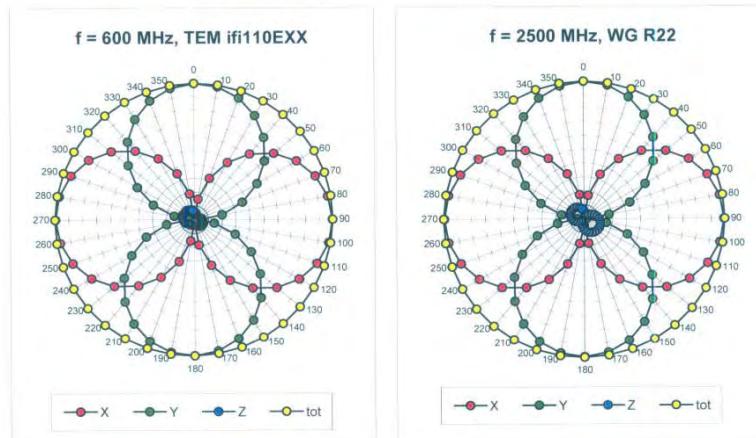
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April 26, 2010

Receiving Pattern (ϕ), $\theta = 90^\circ$ Receiving Pattern (ϕ), $\theta = 0^\circ$ 

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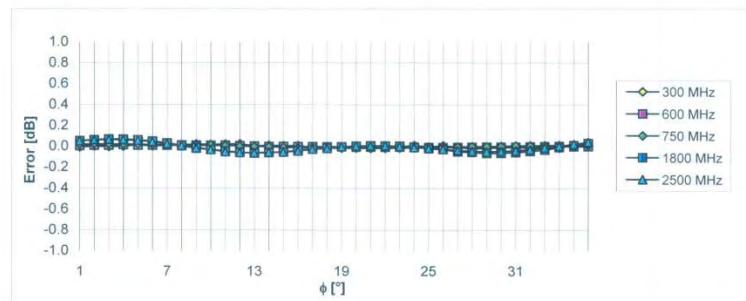
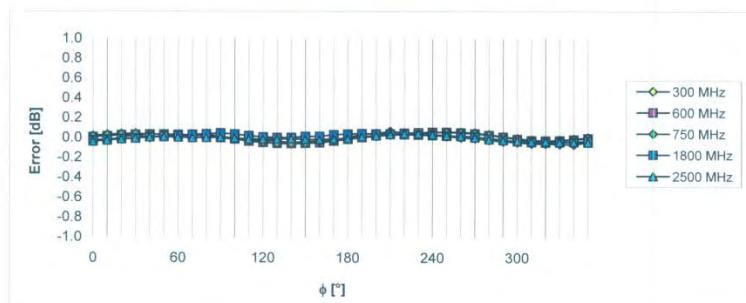
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April 26, 2010

Receiving Pattern (ϕ), $\theta = 90^\circ$ Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)Receiving Pattern (ϕ), $\theta = 0^\circ$ Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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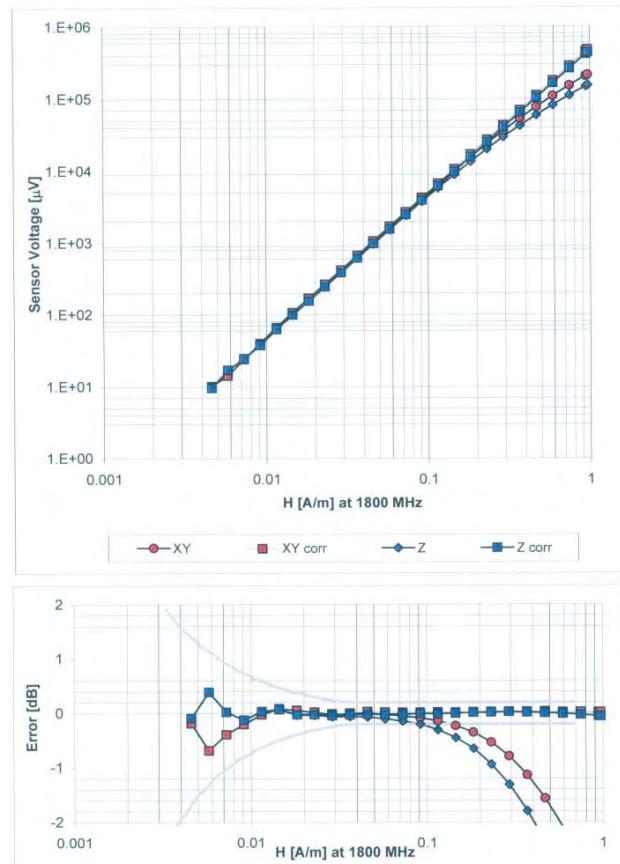
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April 26, 2010

Dynamic Range f(H-field)

(Waveguide R22, f = 1800 MHz)

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

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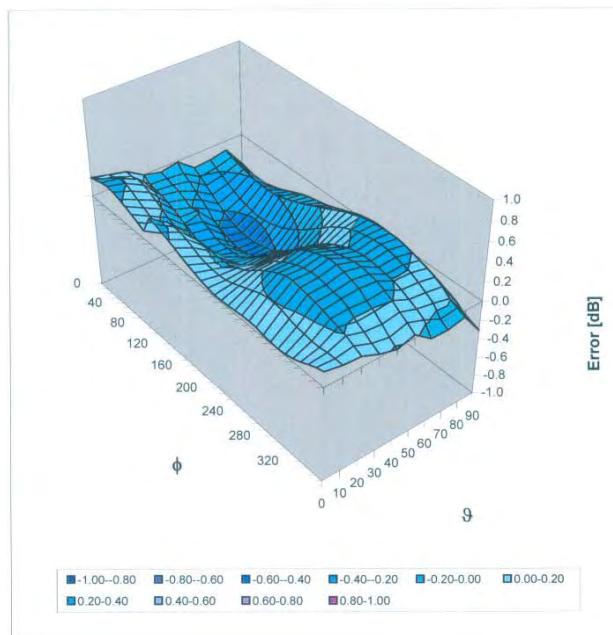
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Deviation from Isotropy in Air Error (ϕ, θ), f = 900 MHz

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

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| | |
|---|-------------|
| Sensor Arrangement | Rectangular |
| Connector Angle (°) | -247.6 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 20 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 |

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16. Uncertainty Analysis

HAC-Extension Setup Performance Test Using SPEAG Calibration Dipoles

| Error Description | Uncertainty value | Prob. Dist. | Div. | (c_i) E | (c_i) H | Std. Unc. E | Std. Unc. H |
|------------------------------------|-------------------|-------------|------------|--------------|--------------|----------------|----------------|
| Measurement System | | | | | | | |
| Probe Calibration | 15.1% | N | 1 | 1 | 1 | 15.1% | 15.1% |
| Axial Isotropy | 14.7% | R | $\sqrt{3}$ | 1 | 1 | ±2.7% | ±2.7% |
| Sensor Displacement | 116.5% | R | $\sqrt{3}$ | 1 | 0.145 | 19.5% | ±1.4% |
| Boundary Effects | ±2.4% | R | $\sqrt{3}$ | 1 | 1 | ±1.4% | ±1.4% |
| Linearity | ±4.7% | R | $\sqrt{3}$ | 1 | 1 | ±2.7% | ±2.7% |
| Scaling to Peak Envelope Power | ±0% | R | $\sqrt{3}$ | 1 | 1 | ±0% | ±0% |
| System Detection Limit | ±1.0% | R | $\sqrt{3}$ | 1 | 1 | ±0.6% | ±0.6% |
| Readout Electronics | ±0.3% | N | 1 | 1 | 1 | ±0.3% | ±0.3% |
| Response Time | ±0% | R | $\sqrt{3}$ | 1 | 1 | ±0% | ±0% |
| Integration Time | ±0% | R | $\sqrt{3}$ | 1 | 1 | ±0% | ±0% |
| RF Ambient Conditions | 13.0% | R | $\sqrt{3}$ | 1 | 1 | 11.7% | 11.7% |
| RF Reflections | 16.0% | R | $\sqrt{3}$ | 1 | 1 | ±3.5% | ±3.5% |
| Probe Positioner | ±1.2% | R | $\sqrt{3}$ | 1 | 0.67 | ±0.7% | ±0.5% |
| Probe Positioning | ±4.7% | R | $\sqrt{3}$ | 1 | 0.67 | ±2.7% | ±1.8% |
| Extrap. and Interpolation | ±1.0% | R | $\sqrt{3}$ | 1 | 1 | ±0.6% | ±0.6% |
| Dipole Related | | | | | | | |
| Distance Dipole Scanning Plane | ±5.2% | R | $\sqrt{3}$ | 1 | 0.3 | ±3.0% | ±0.9% |
| Input power | ±4.7% | N | 1 | 1 | 1 | ±4.7% | ±4.7% |
| Combined Std. Uncertainty | | | | | | ±13.7% | ±9.3% |
| Expanded Std. Uncertainty on Power | | | | | | ±27.4% | ±18.6% |
| Expanded Std. Uncertainty on Field | | | | | | ±13.7% | ±9.3% |

Table 28.1: Uncertainty budget for HAC setup performance test. The budget is valid for the frequency range 800 MHz - 3 GHz and represents a worst-case analysis with respect to power uncertainty of the field. Some of the parameters are dependent on the user situations and need adjustment according to the actual laboratory conditions.

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17. System Validation from Original equipment supplier

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland
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C Servizio svizzero di taratura
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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 **SGS-TW (Auden)**

Certificate No: **CD835V3-1052_Apr10**

CALIBRATION CERTIFICATE

Object **CD835V3 - SN: 1052**

Calibration procedure(s) **QA CAL-20.v5**
 Calibration procedure for dipoles in air

Calibration date: **April 26, 2010**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
 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 EPM-442A | GB37480704 | 06-Oct-09 (No. 217-01086) | Oct-10 |
| Power sensor HP 8481A | US37292783 | 06-Oct-09 (No. 217-01086) | Oct-10 |
| Probe ER3DV6 | SN: 2336 | 30-Dec-09 (No. ER3-2336_Dec09) | Dec-10 |
| Probe H3DV6 | SN: 6065 | 30-Dec-09 (No. H3-6065_Dec09) | Dec-10 |
| DAE4 | SN: 781 | 22-Jan-10 (No. DAE4-781_Jan10) | Jan-11 |
| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
| Power meter Agilent 4419B | SN: GB42420191 | 09-Oct-09 (in house check Oct-09) | In house check: Oct-10 |
| Power sensor HP 8482H | SN: 3318A09450 | 09-Oct-09 (in house check Oct-09) | In house check: Oct-10 |
| Power sensor HP 8482A | SN: US37295597 | 09-Oct-09 (in house check Oct-09) | In house check: Oct-10 |
| Network Analyzer HP 8753E | US37390585 | 18-Oct-01 (in house check Oct-09) | In house check: Oct-10 |
| RF generator E4433B | MY 41000675 | 03-Nov-04 (in house check Oct-09) | In house check: Oct-11 |

Calibrated by: Name **Claudio Leubler** Function **Laboratory Technician** Signature

Approved by: Name **Fin Bornholt** Function **Technical Director** Signature

Issued: April 27, 2010

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

Certificate No: **CD835V3-1052_Apr10**

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3.3.2 DASY4 H-field Result

Date/Time: 26.04.2010 11:29:17

Test Laboratory: SPEAG Lab2

HAC RF_CD835_1052_H_100426_CL**DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1052**

Communication System: CW; Communication System Band: CD835 (835.0 MHz); Frequency: 835 MHz;

Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6065; ; Calibrated: 30.12.2009
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 22.01.2010
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Dipole H-Field measurement @ 835MHz/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 = 0.459 A/m

Probe Modulation Factor = 1

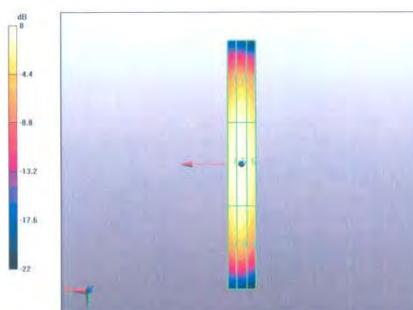
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.488 A/m; Power Drift = -0.015 dB

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

Peak H-field in A/m

| Grid 1 0.394 M4 | Grid 2 0.412 M4 | Grid 3 0.385 M4 |
|-------------------------------------|-------------------------------------|-------------------------------------|
| Grid 4 0.441 M4 | Grid 5 0.459 M4 | Grid 6 0.427 M4 |
| Grid 7 0.390 M4 | Grid 8 0.403 M4 | Grid 9 0.368 M4 |



0 dB = 0.459 A/m

Certificate No: CD835V3-1052_Apr10

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3.3.3 DASY4 E-field Result

Date/Time: 26.04.2010 16:28:20

Test Laboratory: SPEAG Lab2

HAC RF_CD835_1052_E_100426_CL**DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1052**

Communication System: CW; Communication System Band: CD835 (835.0 MHz); Frequency: 835 MHz;

Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2336; ConvF(1, 1, 1); Calibrated: 30.12.2009
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 22.01.2010
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Dipole E-Field measurement @ 835MHz/E Scan - measurement distance from the probe sensor center to CD835**Dipole = 10mm 2/Hearing Aid Compatibility Test (41x361x1):**

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 175.0 V/m

Probe Modulation Factor = 1

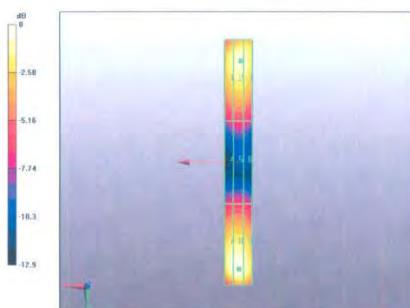
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 114.7 V/m; Power Drift = 0.0013 dB

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

Peak E-field in V/m

| Grid 1 154.6 M4 | Grid 2 162.4 M4 | Grid 3 161.0 M4 |
|-------------------------------------|-------------------------------------|-------------------------------------|
| Grid 4 80.2 M4 | Grid 5 83.2 M4 | Grid 6 81.8 M4 |
| Grid 7 166.7 M4 | Grid 8 175.0 M4 | Grid 9 167.6 M4 |



0 dB = 175.0V/m

Certificate No: CD835V3-1052_Apr10

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Client SGS-TW (Auden)

Certificate No: CD1880V3-1044_Apr10

CALIBRATION CERTIFICATE

Object CD1880V3 - SN: 1044

Calibration procedure(s) QA CAL-20.v5
Calibration procedure for dipoles in air

Calibration date: April 26, 2010

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
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 EPM-442A | GB37480704 | 06-Oct-09 (No. 217-01086) | Oct-10 |
| Power sensor HP 8481A | US37292783 | 06-Oct-09 (No. 217-01086) | Oct-10 |
| Probe ER3DV6 | SN: 2336 | 30-Dec-09 (No. ER3-2336_Dec09) | Dec-10 |
| Probe H3DV6 | SN: 6065 | 30-Dec-09 (No. H3-6065_Dec09) | Dec-10 |
| DAE4 | SN: 781 | 22-Jan-10 (No. DAE4-781_Jan10) | Jan-11 |

| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
|---------------------------|----------------|-----------------------------------|------------------------|
| Power meter Agilent 4419B | SN: GB42420191 | 09-Oct-09 (in house check Oct-09) | In house check: Oct-10 |
| Power sensor HP 8482H | SN: 3318A09450 | 09-Oct-09 (in house check Oct-09) | In house check: Oct-10 |
| Power sensor HP 8482A | SN: US37295597 | 09-Oct-09 (in house check Oct-09) | In house check: Oct-10 |
| Network Analyzer HP 8753E | US37390585 | 18-Oct-01 (in house check Oct-09) | In house check: Oct-10 |
| RF generator E4433B | MY 41000675 | 03-Nov-04 (in house check Oct-09) | In house check: Oct-11 |

| | | | |
|----------------|-------------------------|-----------------------------------|---------------|
| Calibrated by: | Name Claudio Leubler | Function Laboratory Technician | Signature |
| Approved by: | Fin Bomholt | Technical Director | |

Issued: April 27, 2010

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Certificate No: CD1880V3-1044_Apr10

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3.3.2 DASY4 H-Field Result

Date/Time: 26.04.2010 12:16:04

Test Laboratory: SPEAG Lab2

HAC_RF_CD1880_1044_H_100426_CL**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1044**

Communication System: CW; Communication System Band: CD1880 (1880.0 MHz); Frequency: 1880 MHz;

Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6065; Calibrated: 30.12.2009
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 22.01.2010
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Dipole H-Field measurement @ 1880MHz/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 = 0.469 A/m

Probe Modulation Factor = 1

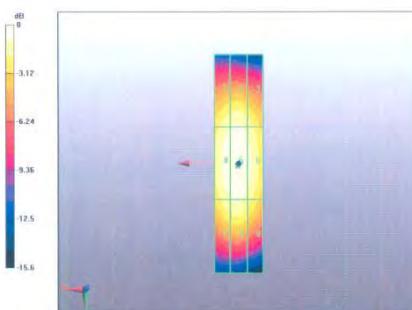
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.496 A/m; Power Drift = 0.00101 dB

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

Peak H-field in A/m

| Grid 1 0.414 M2 | Grid 2 0.428 M2 | Grid 3 0.401 M2 |
|-------------------------------------|-------------------------------------|-------------------------------------|
| Grid 4 0.453 M2 | Grid 5 0.469 M2 | Grid 6 0.438 M2 |
| Grid 7 0.413 M2 | Grid 8 0.429 M2 | Grid 9 0.395 M2 |



0 dB = 0.469A/m

Certificate No: CD1880V3-1044_Apr10

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3.3.3 DASY4 E-Field Result

Date/Time: 26.04.2010 14:58:13

Test Laboratory: SPEAG Lab2

HAC_RF_CD1880_1044_E_100426_CL**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1044**

Communication System: CW; Communication System Band: CD1880 (1880.0 MHz); Frequency: 1880 MHz;

Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2336; ConvF(1, 1, 1); Calibrated: 30.12.2009
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 22.01.2010
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 59

Dipole E-Field measurement @ 1880MHz/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 = 138.4 V/m

Probe Modulation Factor = 1

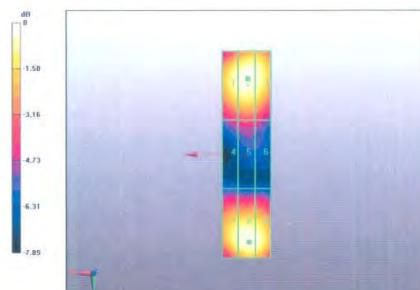
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 153.7 V/m; Power Drift = -0.00981 dB

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

Peak E-field in V/m

| Grid 1 131.8 M2 | Grid 2 136.2 M2 | Grid 3 134.2 M2 |
|-------------------------------------|-------------------------------------|-------------------------------------|
| Grid 4 86.8 M3 | Grid 5 89.3 M3 | Grid 6 86.6 M3 |
| Grid 7 130.3 M2 | Grid 8 138.4 M2 | Grid 9 136.1 M2 |



0 dB = 138.4V/m

Certificate No: CD1880V3-1044_Apr10

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End of 1st part of report

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