

APPENDIX 2 : HAC Measurement data

1. Evaluation procedure

The evaluation was performed with the following procedure:

Step1-Step 4 were measured for both E and H-filed measurements.

Step 1: Height Check

Height Check is used to visually verify the z-coordinate with one single point, similar to the verification of the phantom reference points. The pre requirement is that the CalibrateHAC phantom mode is executed. After this is done, the probe can be positioned to the HeightCheck point which is at 0.5mm above the center of the Test Arch.

Step 2: Device Reference Point

Device Reference Point is the point on the lower surface of the Arch frame where the EUT is positioned. The thickness of the Arch frame is 6.3mm, leading to a z-coordinate of 353.7mm for measurements involving EUT. The upper surface of a calibration dipole is however closer to the top surface. A distance of 5.3mm leads to a z-coordinate of 354.7mm

for the measurements involving dipoles.

Step 3: Grid Reference Point

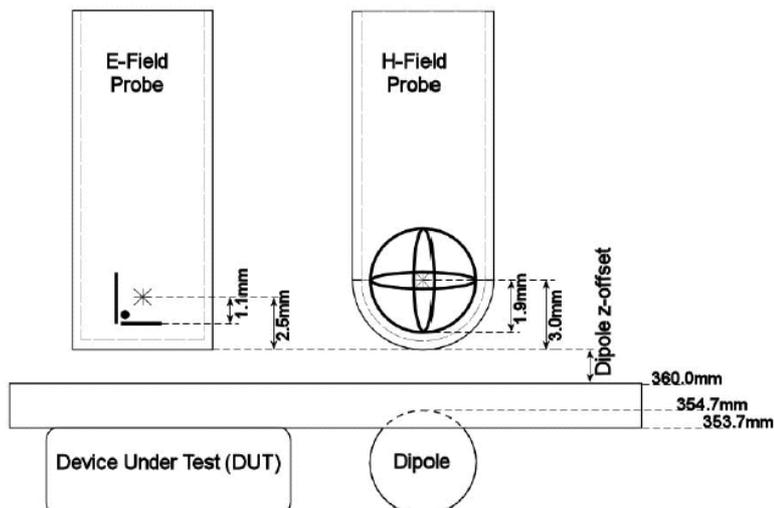
Grid Reference Point is the anchor point for the measurement grid. The z-coordinate of a grid reference point is calculated as: height of the Device Reference Point + 10.0mm – Probe Sensor Offset (2.5mm for ER3D probes, 3.0mm for H3DV6 probes).

The 5 x 5 cm square scanning area for measurements involving EUT is given by theANSI-C63.19. The default grid resolution of 5mm is refined using the interpolation algorithm also applied in the postprocessor.

The system performed a 360° rotation for maximum reading at the final measurement location.

Step 4: Drift Power

The system performed a drift evaluation by measuring the field at the reference position.



2. Probe Modulation Factor (PMF)

The E-field free space probes (ER3DV6) as well as the H-field probe (H3DV6) are calibrated for unmodulated (CW) fields.

According to the Standard the results measured in the scan must be multiplied with the PMF to obtain the peak values. As long as the probes are not calibrated for specific modulations, the PMF must be obtained for the following cases:

<Evaluation Procedure for Unknown PMF>

The proposed measurement setup corresponds to the procedure as required in the Standard, Chapter C.3.1.

1. Installed a validation dipole for the appropriate frequency band under the Test Arch Phantom and select the proper phantom section according to the probe type installed (E- or H-field). Move the probe to the field reference point. (Do not move the probe between the subsequent CW and modulated measurements.)

2. Install the field probe in the setup.

3. The modulated signal to the dipole must be monitored to record peak amplitude and compared to a CW signal with the same peak envelope level

We used a directional coupler and a spectrum analyzer in zero span mode set to the operating frequency To determined the peak envelope level of the modulated signal properly, the settings of a spectrum analyzer was as follows:

- Resolution bandwidth \geq emission bandwidth
- Video bandwidth \geq 20kHz
- Span: zero
- Center Frequency: nominal center frequency of channel
Amplitude Scale: Liner
- Detection: Peak detection*
- Trigger: Video
- Sweep rate : The sweep time setting to allow a full transmission cycle, displaying the on and off time

*The Peak transmit power is the maximum of the RMS power during a transmit burst.

4. Define a DASY4 document and set the procedure properties (frequency, modulation frequency and crest factor) according to the measured signal. Define a multimeter job for the field reading.

5. Define a second procedure for the evaluation of the CW signal (frequency set as above, modulation frequency = 0, crest factor = 1) and a multimeter job.

The PMF measurement procedure is as follows:

1. Modulated signal measurement: Connect the modulated signal using the appropriate frequency via the cable to the dipole.
2. Run the multimeter in the procedure with the corresponding modulation setting in continuous mode.
3. Adjust the signal amplitude to achieve the same field level display in the multimeter as during the WD field scan. Read the multimeter display.
4. Read the envelope peak on the monitor in order to adjust the CW signal later to the same level.
5. Switch the signal source off and verify that the ambient and instrumentation noise level is at least 10 dB lower (a factor of 3 in field).
6. CW measurement: Change the signal to CW at the same center frequency, without touching or moving the dipole in the setup.
7. Adjust the CW signal amplitude to the same peak level on the spectrum analyzer.
8. Run the multimeter in the CW procedure in continuous mode.
9. Read the multimeter total field display.
10. Calculate the Probe Modulation Factor as the ratio between the CW multimeter field reading and the reading for the applicable modulation. I.e., $PMF = E_{CW} / E_{mod}$ and similar for H.

Perform the above setup and procedure for both E-field and H-field probes.

<Result of PMF>

GSM850MHz E-filed

Peak Field lin V/m	DASY4 V/m	PMF lin
47	16	2.91
63	21	2.95
84	28	2.98
112	37	3.02
150	49	3.06
200	64	3.10
266	85	3.14
355	111	3.19
473	147	3.23
631	193	3.27
841	254	3.31
1122	334	3.36

GSM 850MHz H-Filed

Peak Field lin A/m	DASY4 A/m	PMF lin
0.14	0.05	2.94
0.19	0.07	2.81
0.25	0.09	2.70
0.34	0.13	2.60
0.45	0.18	2.53
0.6	0.24	2.47
0.8	0.33	2.42
1.07	0.45	2.38
1.43	0.61	2.36
1.91	0.81	2.35
2.54	1.08	2.35
3.39	1.44	2.36

PCS1900MHz E-filed

Peak Field lin V/m	DASY4 V/m	PMF lin
47	16	2.87
63	22	2.90
84	29	2.94
112	38	2.98
150	50	3.02
200	65	3.06
266	86	3.09
355	113	3.13
473	149	3.17
631	196	3.21
841	259	3.25
1122	341	3.29

PCS1900MHz H-Filed

Peak Field lin A/m	DASY4 A/m	PMF lin
0.14	0.05	2.92
0.19	0.07	2.67
0.25	0.10	2.49
0.34	0.14	2.35
0.45	0.20	2.25
0.6	0.28	2.18
0.8	0.37	2.14
1.07	0.50	2.13
1.43	0.67	2.15
1.91	0.87	2.19
2.54	1.12	2.27
3.39	1.42	2.38

<Decision of PMF>

Apply the PMF for the worst case field after exclusion. The value would therefore be the absolute worst case or less if this value is inside an excluded subgrid.

3. E-Filed measurement data (GSM 850)

E-Filed / PV210 / GSM 850 / 128ch

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 - SN2427; ConvF(1, 1, 1); Calibrated: 2007/12/13

- Sensor-Surface: (Fix Surface)

- Phantom: HAC Test Arch 4.6

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid

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

Maximum value of peak Total field = 150.6 V/m

Probe Modulation Factor = 2.95

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 54.4 V/m; Power Drift = 0.108 dB

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

Peak E-field in V/m

Grid 1 124.7 M4	Grid 2 140.7 M4	Grid 3 139.6 M4
Grid 4 131.2 M4	Grid 5 150.6 M3	Grid 6 149.2 M4
Grid 7 118.1 M4	Grid 8 138.5 M4	Grid 9 138.5 M4

Cursor:

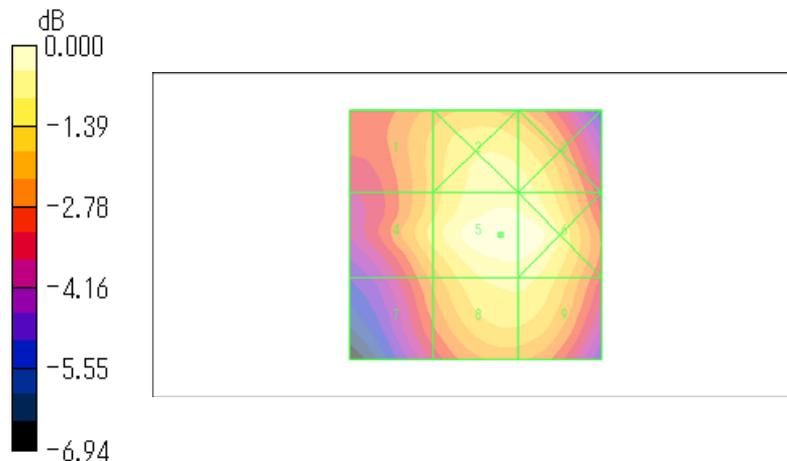
Total = 150.6 V/m

E Category: M3

Location: -5, 0, 364.8 mm

Test Date = 03/07/08

Ambient Temperature = 23.0 degree.c



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E-Filed / PV210 / GSM 850 / 190ch

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 - SN2427; ConvF(1, 1, 1); Calibrated: 2007/12/13

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 220.7 V/m

Probe Modulation Factor = 2.98

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 78.5 V/m; Power Drift = -0.068 dB

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

Peak E-field in V/m

Grid 1 179.6 M3	Grid 2 211.9 M3	Grid 3 211.9 M3
Grid 4 181.5 M3	Grid 5 220.7 M3	Grid 6 220.2 M3
Grid 7 155.2 M3	Grid 8 200.2 M3	Grid 9 200.7 M3

Cursor:

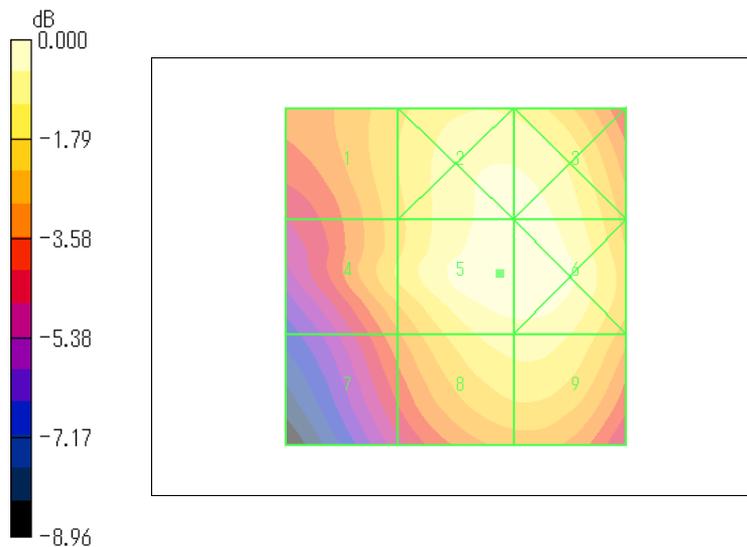
Total = 220.7 V/m

E Category: M3

Location: -6.5, -0.5, 364.8 mm

Test Date = 03/07/08

Ambient Temperature = 23.0 degree.c



0 dB = 220.7V/m

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E-Filed / PV210 / GSM 850 / 251ch

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 - SN2427; ConvF(1, 1, 1); Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid

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

Maximum value of peak Total field = 215.3 V/m

Probe Modulation Factor = 2.98

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 76.8 V/m; Power Drift = -0.048 dB

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

Peak E-field in V/m

Grid 1 174.0 M3	Grid 2 203.2 M3	Grid 3 203.0 M3
Grid 4 179.9 M3	Grid 5 215.3 M3	Grid 6 215.0 M3
Grid 7 156.5 M3	Grid 8 196.5 M3	Grid 9 196.7 M3

Cursor:

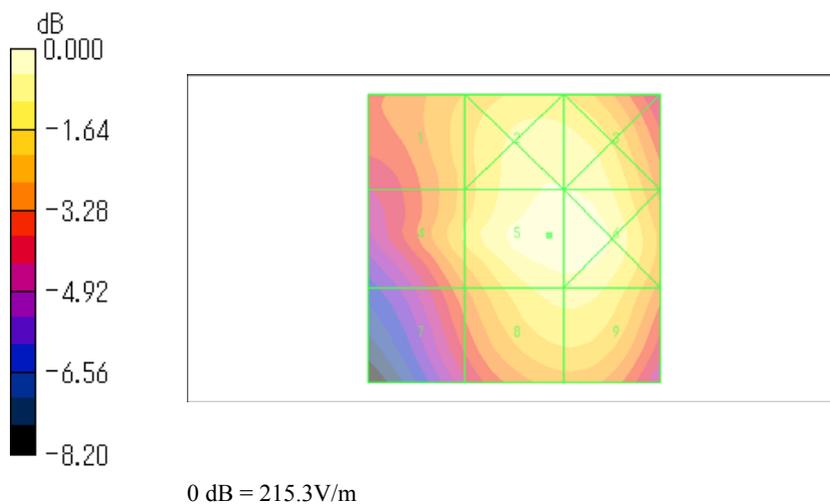
Total = 215.3 V/m

E Category: M3

Location: -6, -0.5, 364.8 mm

Test Date = 03/07/08

Ambient Temperature = 23.0 degree.c



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E-Filed / PV210 / GSM 850 / 128ch / With Bluetooth active

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 - SN2427; ConvF(1, 1, 1); Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid

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

Maximum value of peak Total field = 130.7 V/m

Probe Modulation Factor = 2.95

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 49.1 V/m; Power Drift = 0.003 dB

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

Peak E-field in V/m

Grid 1 114.7 M4	Grid 2 122.4 M4	Grid 3 120.5 M4
Grid 4 121.3 M4	Grid 5 130.7 M4	Grid 6 128.6 M4
Grid 7 104.7 M4	Grid 8 118.1 M4	Grid 9 117.1 M4

Cursor:

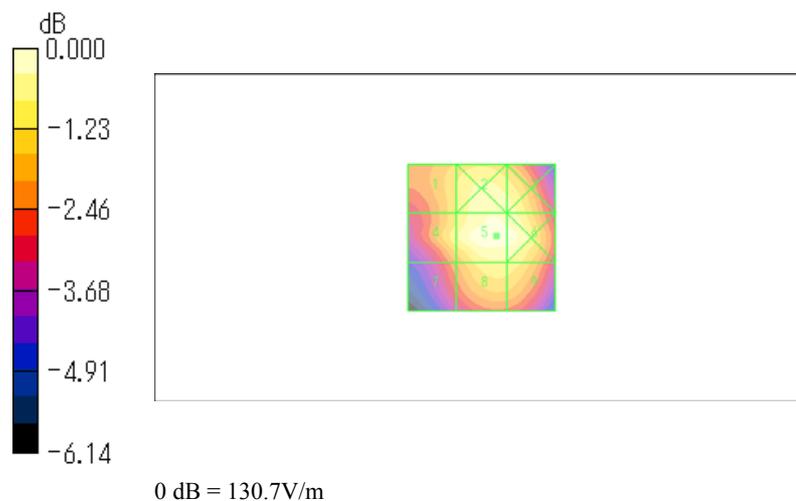
Total = 130.7 V/m

E Category: M4

Location: -4.5, 0, 364.8 mm

Test Date = 03/07/08

Ambient Temperature = 23.0degree.c



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E-Filed / PV210 / GSM 850 / 190ch / With Bluetooth active

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 - SN2427; ConvF(1, 1, 1); Calibrated: 2007/12/13

- Sensor-Surface: (Fix Surface)

- Phantom: HAC Test Arch 4.6

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 191.8 V/m

Probe Modulation Factor = 2.98

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 70.3 V/m; Power Drift = 0.007 dB

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

Peak E-field in V/m

Grid 1 165.2 M3	Grid 2 182.0 M3	Grid 3 179.1 M3
Grid 4 172.2 M3	Grid 5 191.8 M3	Grid 6 188.1 M3
Grid 7 150.2 M3	Grid 8 172.5 M3	Grid 9 172.1 M3

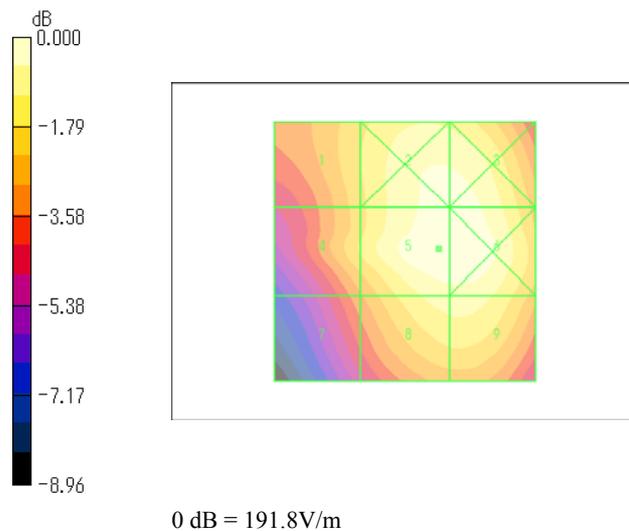
Cursor:

Total = 191.8 V/m

E Category: M3

Location: -5, -0.5, 364.8 mm

Ambient Temperature = 23.0 degree.c



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E-Filed / PV210 / GSM 850 / 251ch / With Bluetooth active

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 - SN2427; ConvF(1, 1, 1); Calibrated: 2007/12/13

- Sensor-Surface: (Fix Surface)

- Phantom: HAC Test Arch 4.6

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid

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

Maximum value of peak Total field = 215.7 V/m

Probe Modulation Factor = 2.98

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 76.8 V/m; Power Drift = 0.083 dB

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

Peak E-field in V/m

Grid 1 182.4 M3	Grid 2 205.7 M3	Grid 3 205.6 M3
Grid 4 185.8 M3	Grid 5 215.7 M3	Grid 6 215.8 M3
Grid 7 159.6 M3	Grid 8 196.5 M3	Grid 9 196.7 M3

Cursor:

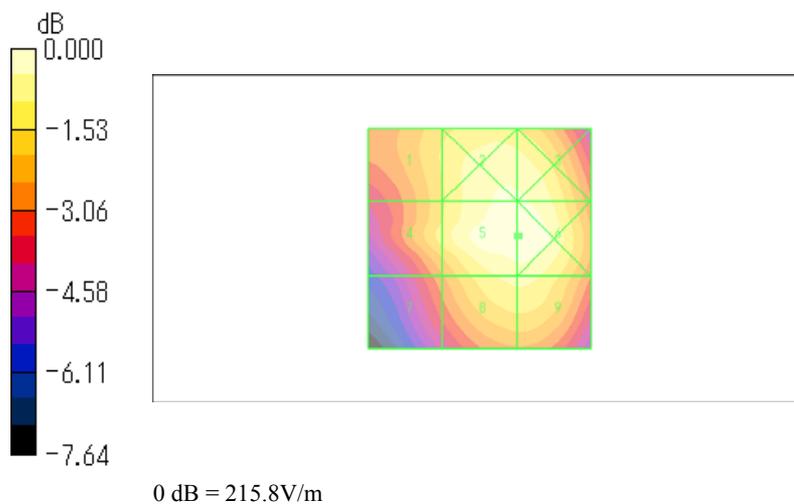
Total = 215.8 V/m

E Category: M3

Location: -9, -0.5, 364.8 mm

Test Date = 03/07/08

Ambient Temperature = 23.0degree.c



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4. E-Filed measurement data (PCS1900)

E-Filed / PV210 / PCS1900 / 512ch

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 - SN2427; ConvF(1, 1, 1); Calibrated: 2007/12/13

- Sensor-Surface: (Fix Surface)

- Phantom: HAC Test Arch 4.6

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid

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

Maximum value of peak Total field = 80.7 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 14.6 V/m; Power Drift = -0.191 dB

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

Peak E-field in V/m

Grid 1 69.5 M3	Grid 2 80.7 M3	Grid 3 79.8 M3
Grid 4 51.7 M3	Grid 5 65.3 M3	Grid 6 66.8 M3
Grid 7 98.2 M2	Grid 8 82.4 M3	Grid 9 61.6 M3

Cursor:

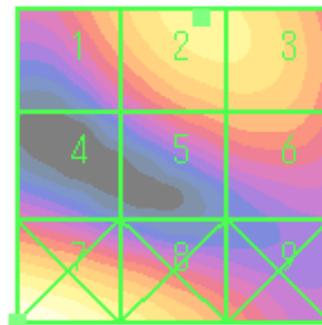
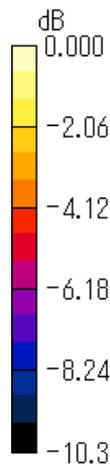
Total = 98.2 V/m

E Category: M2

Location: 25, 25, 364.8 mm

Test Date = 03/07/08

Ambient Temperature = 23.0 degree.c



0 dB = 98.2V/m

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E-Filed / PV210 / PCS1900 / 661ch

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 - SN2427; ConvF(1, 1, 1); Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid

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

Maximum value of peak Total field = 71.5 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 12.6 V/m; Power Drift = -0.012 dB

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

Peak E-field in V/m

Grid 1 62.9 M3	Grid 2 71.5 M3	Grid 3 68.9 M3
Grid 4 54.1 M3	Grid 5 53.6 M3	Grid 6 54.6 M3
Grid 7 96.7 M2	Grid 8 80.6 M3	Grid 9 65.6 M3

Cursor:

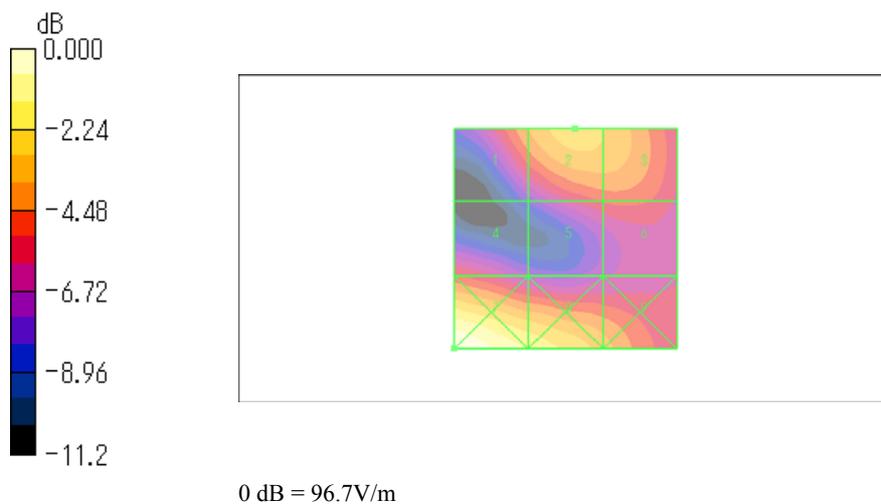
Total = 96.7 V/m

E Category: M2

Location: 25, 25, 364.8 mm

Test Date = 03/07/08

Ambient Temperature = 23.0 degree.c



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E-Filed / PV210 / PCS1900 / 810ch

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 - SN2427; ConvF(1, 1, 1); Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid

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

Maximum value of peak Total field = 75.7 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 11.0 V/m; Power Drift = -0.129 dB

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

Peak E-field in V/m

Grid 1 63.2 M3	Grid 2 76.5 M3	Grid 3 74.4 M3
Grid 4 43.1 M4	Grid 5 54.7 M3	Grid 6 55.6 M3
Grid 7 75.0 M3	Grid 8 75.7 M3	Grid 9 71.0 M3

Cursor:

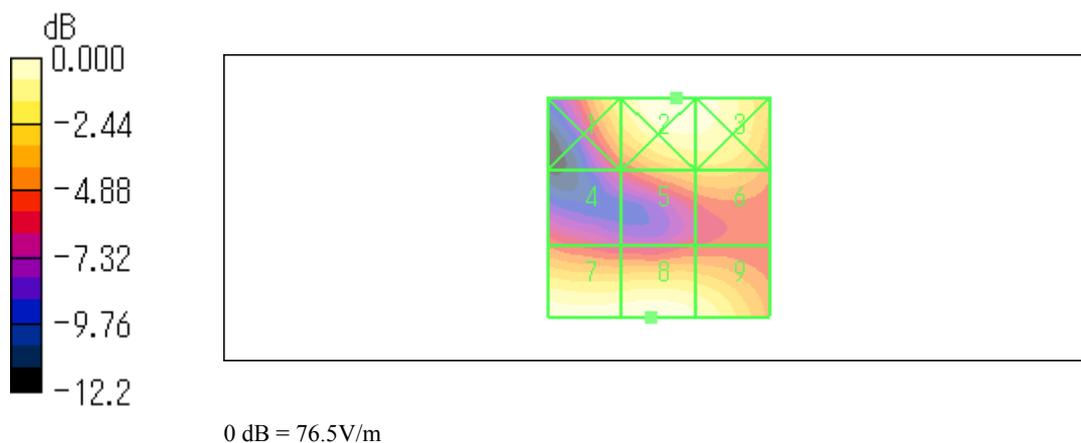
Total = 76.5 V/m

E Category: M3

Location: -4, -25, 364.8 mm

Test Date = 03/07/08

Ambient Temperature = 23.0 degree.c



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E-Filed / PV210 / PCS1900 / 512ch / With Bluetooth active

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 - SN2427; ConvF(1, 1, 1); Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid

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

Maximum value of peak Total field = 82.2 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 11.0 V/m; Power Drift = 0.207 dB

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

Peak E-field in V/m

Grid 1 70.6 M3	Grid 2 82.2 M3	Grid 3 81.0 M3
Grid 4 56.8 M3	Grid 5 62.8 M3	Grid 6 65.0 M3
Grid 7 99.0 M2	Grid 8 82.5 M3	Grid 9 61.6 M3

Cursor:

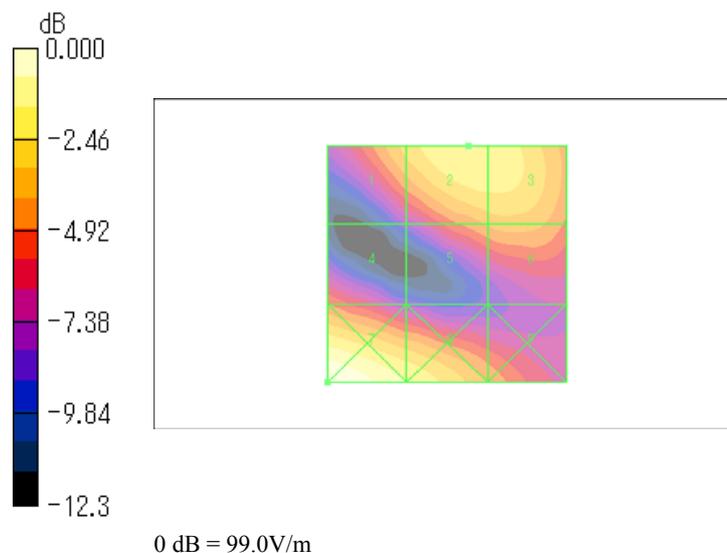
Total = 99.0 V/m

E Category: M2

Location: 25, 25, 364.8 mm

Test Date = 03/07/08

Ambient Temperature = 23.0degree.c



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E-Filed / PV210 / PCS1900 / 661ch / With Bluetooth active

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 - SN2427; ConvF(1, 1, 1); Calibrated: 2007/12/13

- Sensor-Surface: (Fix Surface)

- Phantom: HAC Test Arch 4.6

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid

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

Maximum value of peak Total field = 67.5 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 9.03 V/m; Power Drift = -0.168 dB

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

Peak E-field in V/m

Grid 1 55.6 M3	Grid 2 67.5 M3	Grid 3 66.5 M3
Grid 4 44.8 M4	Grid 5 47.7 M3	Grid 6 49.3 M3
Grid 7 74.4 M3	Grid 8 68.6 M3	Grid 9 62.2 M3

Cursor:

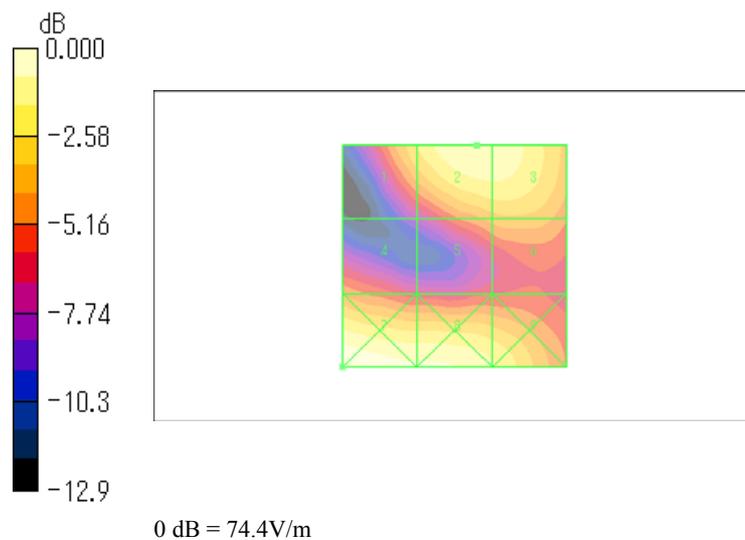
Total = 74.4 V/m

E Category: M3

Location: 25, 25, 364.8 mm

Test Date = 03/07/08

Ambient Temperature = 23.0degree.c



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E-Filed / PV210 / PCS1900 / 810ch / With Bluetooth active

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 - SN2427; ConvF(1, 1, 1); Calibrated: 2007/12/13

- Sensor-Surface: (Fix Surface)

- Phantom: HAC Test Arch 4.6

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

E Scan - ER3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid

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

Maximum value of peak Total field = 66.5 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 11.9 V/m; Power Drift = -0.101 dB

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

Peak E-field in V/m

Grid 1 58.4 M3	Grid 2 66.5 M3	Grid 3 65.2 M3
Grid 4 43.9 M4	Grid 5 52.0 M3	Grid 6 53.5 M3
Grid 7 78.3 M3	Grid 8 68.3 M3	Grid 9 59.0 M3

Cursor:

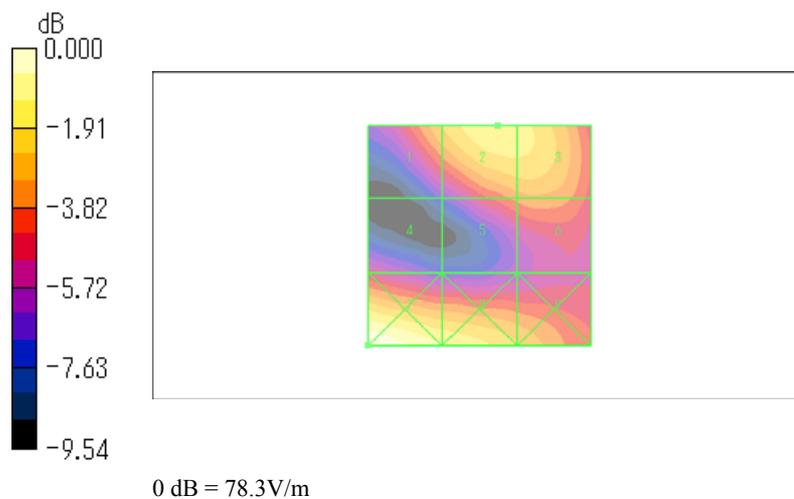
Total = 78.3 V/m

E Category: M3

Location: 25, 25, 364.8 mm

Test Date = 03/07/08

Ambient Temperature = 23.0degree.c



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5. H-Filed measurement data (GSM850)

H-Filed / PV210 / GSM 850 / 128ch

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 - SN6259; ; Calibrated: 2007/12/13

- Sensor-Surface: (Fix Surface)

- Phantom: HAC Test Arch 4.6

- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.259 A/m

Probe Modulation Factor = 2.94

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.069 A/m; Power Drift = -0.085 dB

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

Peak H-field in A/m

Grid 1 0.292 M4	Grid 2 0.227 M4	Grid 3 0.142 M4
Grid 4 0.301 M4	Grid 5 0.247 M4	Grid 6 0.159 M4
Grid 7 0.337 M4	Grid 8 0.259 M4	Grid 9 0.166 M4

Cursor:

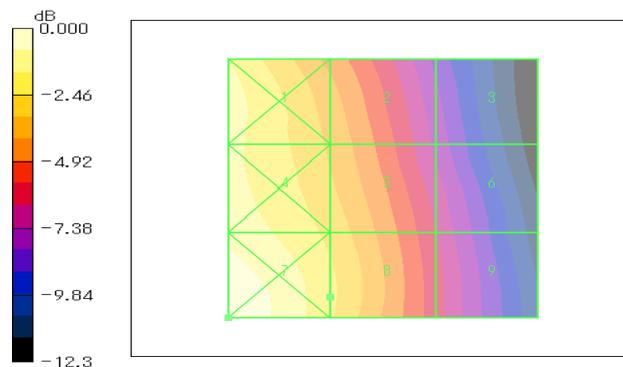
Total = 0.337 A/m

H Category: M4

Location: 25, 25, 365.6 mm

Test Date = 03/07/08

Ambient Temperature = 23.0 degree.c



0 dB = 0.337A/m

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H-Filed / PV210 / GSM 850 / 190ch

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 - SN6259; ; Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.337 A/m

Probe Modulation Factor = 2.81

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.094 A/m; Power Drift = -0.034 dB

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

Peak H-field in A/m

Grid 1 0.382 M4	Grid 2 0.296 M4	Grid 3 0.186 M4
Grid 4 0.393 M4	Grid 5 0.322 M4	Grid 6 0.212 M4
Grid 7 0.435 M4	Grid 8 0.337 M4	Grid 9 0.217 M4

Cursor:

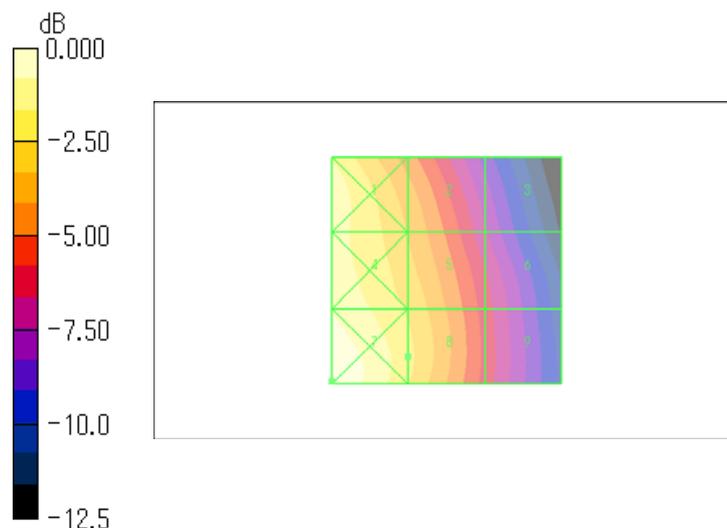
Total = 0.435 A/m

H Category: M4

Location: 25, 24.5, 365.6 mm

Test Date = 03/07/08

Ambient Temperature = 23.0 degree.c



0 dB = 0.435A/m

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H-Filed / PV210 / GSM 850 / 251ch

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 - SN6259; ; Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.322 A/m

Probe Modulation Factor = 2.81

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.089 A/m; Power Drift = 0.028 dB

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

Peak H-field in A/m

Grid 1 0.407 M4	Grid 2 0.295 M4	Grid 3 0.172 M4
Grid 4 0.387 M4	Grid 5 0.309 M4	Grid 6 0.197 M4
Grid 7 0.416 M4	Grid 8 0.322 M4	Grid 9 0.210 M4

Cursor:

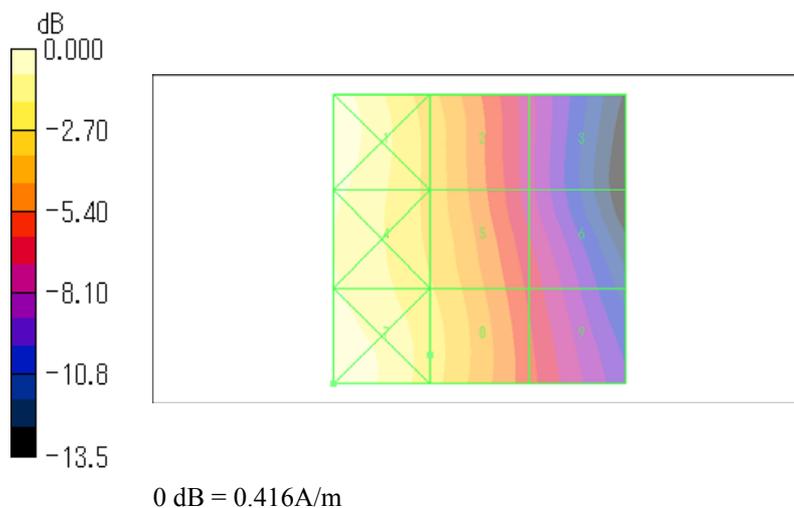
Total = 0.416 A/m

H Category: M4

Location: 25, 25, 365.6 mm

Test Date = 03/07/08

Ambient Temperature = 23.0 degree.c



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H-Filed / PV210 / GSM 850 / 128ch / With Bluetooth active

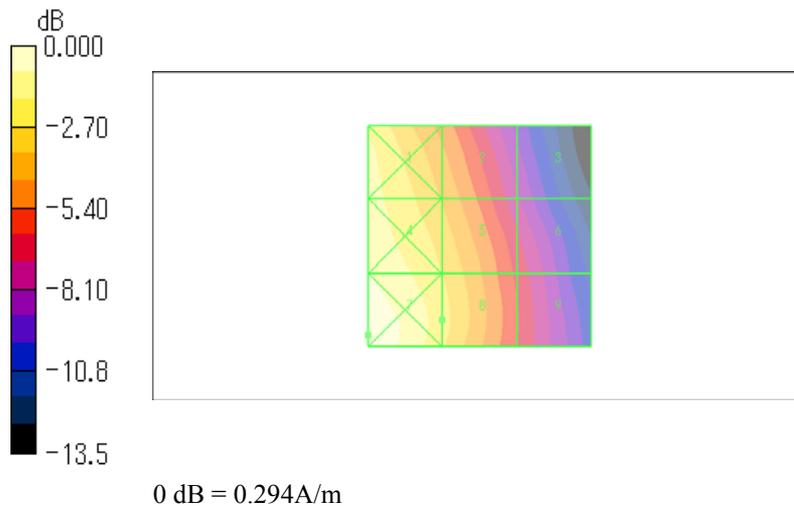
Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
Phantom section: H Device Section
DASY4 Configuration:
- Probe: H3DV6 - SN6259; ; Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.225 A/m
Probe Modulation Factor = 2.94
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.059 A/m; Power Drift = -0.007 dB
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.249 M4	Grid 2 0.193 M4	Grid 3 0.118 M4
Grid 4 0.267 M4	Grid 5 0.216 M4	Grid 6 0.139 M4
Grid 7 0.294 M4	Grid 8 0.225 M4	Grid 9 0.144 M4

Cursor:
Total = 0.294 A/m
H Category: M4
Location: 25, 22.5, 365.6 mm
Test Date = 03/07/08
Ambient Temperature = 23.0degree.c



H-Filed / PV210 / GSM 850 / 190ch / With Bluetooth active

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 - SN6259; ; Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.353 A/m

Probe Modulation Factor = 2.81

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.094 A/m; Power Drift = -0.002 dB

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

Peak H-field in A/m

Grid 1 0.393 M4	Grid 2 0.299 M4	Grid 3 0.179 M4
Grid 4 0.417 M4	Grid 5 0.334 M4	Grid 6 0.212 M4
Grid 7 0.469 M3	Grid 8 0.353 M4	Grid 9 0.221 M4

Cursor:

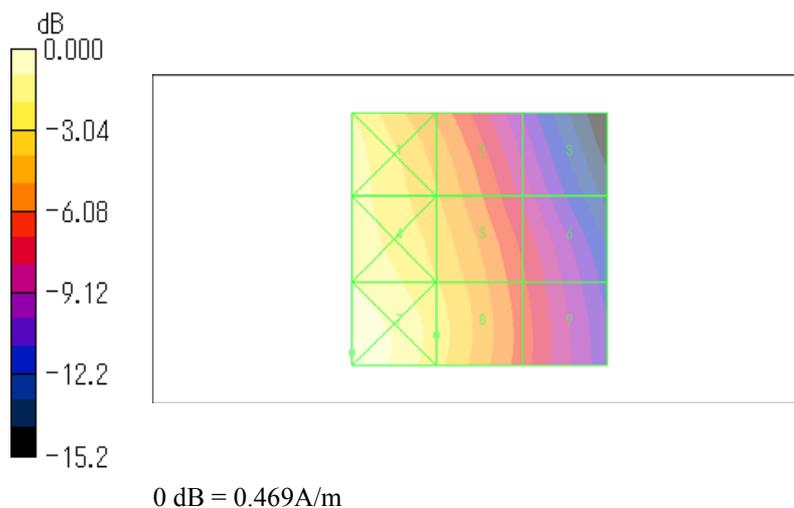
Total = 0.469 A/m

H Category: M3

Location: 25, 22.5, 365.6 mm

Test Date = 03/07/08

Ambient Temperature = 23.0degree.c



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H-Filed / PV210 / GSM 850 / 251ch / With Bluetooth active

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 - SN6259; ; Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.365 A/m

Probe Modulation Factor = 2.81

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.102 A/m; Power Drift = -0.049 dB

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

Peak H-field in A/m

Grid 1 0.468 M3	Grid 2 0.336 M4	Grid 3 0.195 M4
Grid 4 0.439 M4	Grid 5 0.353 M4	Grid 6 0.215 M4
Grid 7 0.481 M3	Grid 8 0.365 M4	Grid 9 0.223 M4

Cursor:

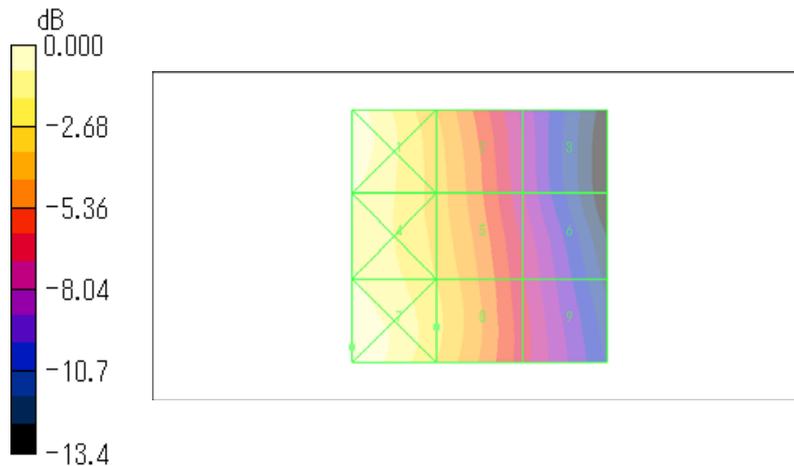
Total = 0.481 A/m

H Category: M3

Location: 25, 22, 365.6 mm

Test Date = 03/07/08

Ambient Temperature = 23.0degree.c



0 dB = 0.481A/m

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6. H-Filed measurement data (PCS1900)

H-Filed / PV210 / PCS1900/ 512ch

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 - SN6259; ; Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.237 A/m

Probe Modulation Factor = 2.92

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.076 A/m; Power Drift = 0.002 dB

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

Peak H-field in A/m

Grid 1 0.217 M3	Grid 2 0.198 M3	Grid 3 0.198 M3
Grid 4 0.196 M3	Grid 5 0.237 M3	Grid 6 0.237 M3
Grid 7 0.242 M3	Grid 8 0.237 M3	Grid 9 0.237 M3

Cursor:

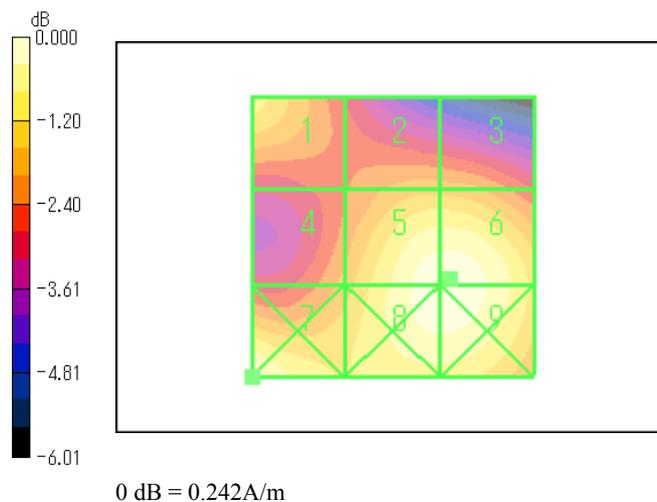
Total = 0.242 A/m

H Category: M3

Location: 25, 25, 365.6 mm

Test Date = 03/07/08

Ambient Temperature = 23.0 degree.c



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H-Filed / PV210 / PCS1900/ 661ch

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 - SN6259; ; Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.224 A/m

Probe Modulation Factor = 2.92

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.072 A/m; Power Drift = 0.013 dB

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

Peak H-field in A/m

Grid 1 0.179 M3	Grid 2 0.195 M3	Grid 3 0.195 M3
Grid 4 0.195 M3	Grid 5 0.224 M3	Grid 6 0.224 M3
Grid 7 0.260 M2	Grid 8 0.224 M3	Grid 9 0.224 M3

Cursor:

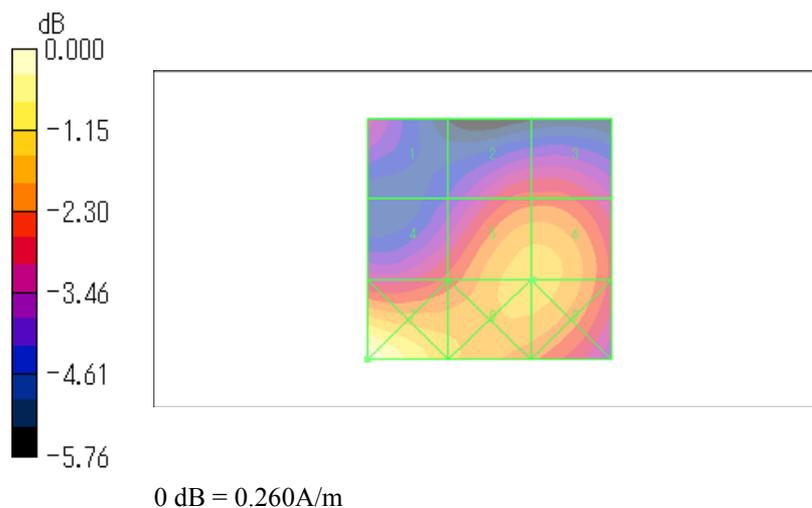
Total = 0.260 A/m

H Category: M2

Location: 25, 25, 365.6 mm

Test Date = 03/07/08

Ambient Temperature = 23.0 degree.c



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H-Filed / PV210 / PCS1900/ 810ch

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 - SN6259; ; Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.214 A/m

Probe Modulation Factor = 2.92

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.070 A/m; Power Drift = 0.015 dB

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

Peak H-field in A/m

Grid 1 0.184 M3	Grid 2 0.190 M3	Grid 3 0.190 M3
Grid 4 0.172 M3	Grid 5 0.214 M3	Grid 6 0.214 M3
Grid 7 0.242 M3	Grid 8 0.214 M3	Grid 9 0.214 M3

Cursor:

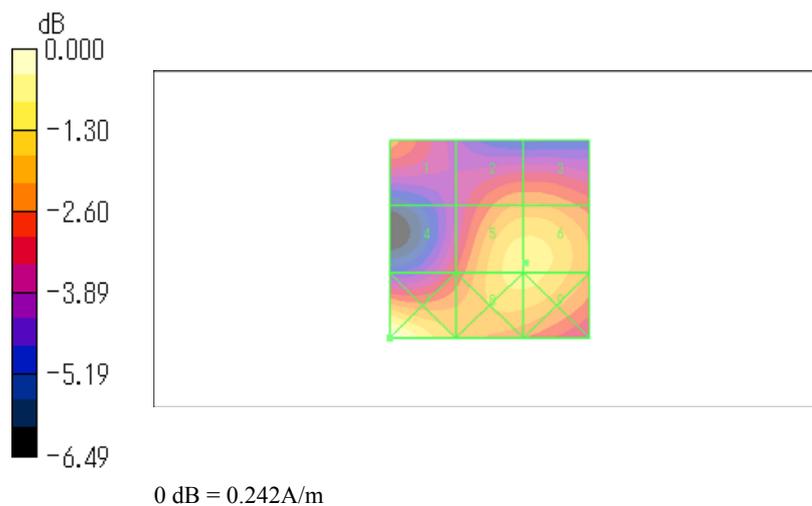
Total = 0.242 A/m

H Category: M3

Location: 25, 25, 365.6 mm

Test Date = 03/07/08

Ambient Temperature = 23.0 degree.c



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H-Filed / PV210 / PCS1900 / 512ch / With Bluetooth active

Duty Cycle: 1:8.3

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6259; ; Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.251 A/m

Probe Modulation Factor = 2.92

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.082 A/m; Power Drift = -0.016 dB

Hearing Aid Near-Field Category: M2 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.211 M3	Grid 2 0.219 M3	Grid 3 0.219 M3
Grid 4 0.192 M3	Grid 5 0.251 M2	Grid 6 0.252 M2
Grid 7 0.219 M3	Grid 8 0.251 M2	Grid 9 0.252 M2

Cursor:

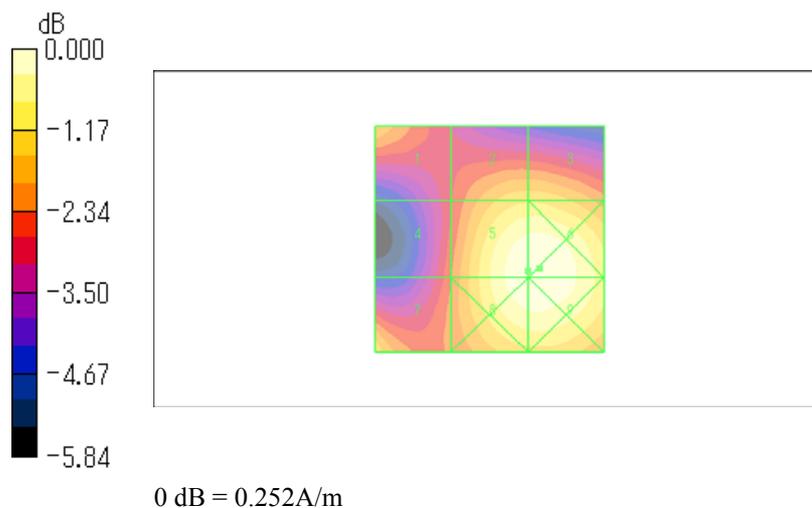
Total = 0.252 A/m

H Category: M2

Location: -11, 6.5, 366.1 mm

Test Date = 03/07/08

Ambient Temperature = 23.0degree.c



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H-Filed / PV210 / PCS1900 / 661ch / With Bluetooth active

Duty Cycle: 1:8.3

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6259; ; Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.203 A/m

Probe Modulation Factor = 2.92

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.065 A/m; Power Drift = -0.051 dB

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

Peak H-field in A/m

Grid 1 0.203 M3	Grid 2 0.176 M3	Grid 3 0.176 M3
Grid 4 0.159 M3	Grid 5 0.196 M3	Grid 6 0.199 M3
Grid 7 0.225 M3	Grid 8 0.196 M3	Grid 9 0.199 M3

Cursor:

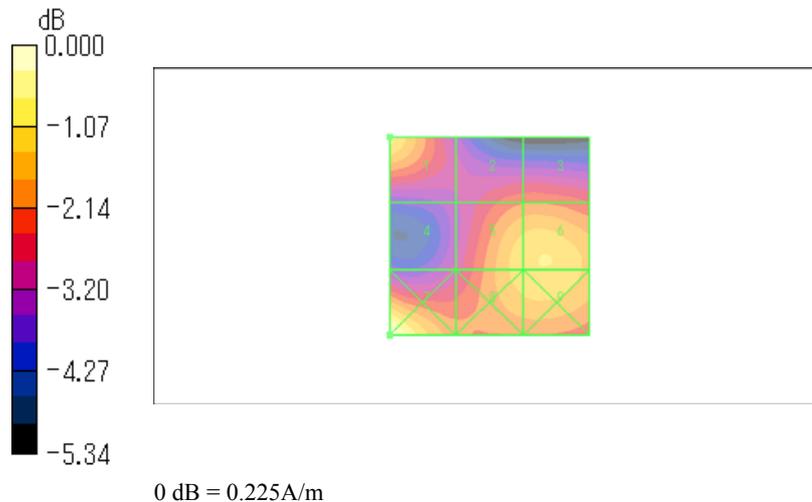
Total = 0.225 A/m

H Category: M3

Location: 25, 25, 366.1 mm

Test Date = 03/07/08

Ambient Temperature = 23.0degree.c



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H-Filed / PV210 / PCS1900 / 810ch / With Bluetooth active

Duty Cycle: 1:8.3

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

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6259; ; Calibrated: 2007/12/13
- Sensor-Surface: (Fix Surface)
- Phantom: HAC Test Arch 4.6
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

H Scan - H3DV6 - measurement distance from the closest probe sensor part to the Device = 10mm/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.191 A/m

Probe Modulation Factor = 2.92

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.063 A/m; Power Drift = -0.026 dB

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

Peak H-field in A/m

Grid 1 0.164 M3	Grid 2 0.172 M3	Grid 3 0.173 M3
Grid 4 0.156 M3	Grid 5 0.190 M3	Grid 6 0.191 M3
Grid 7 0.228 M3	Grid 8 0.189 M3	Grid 9 0.189 M3

Cursor:

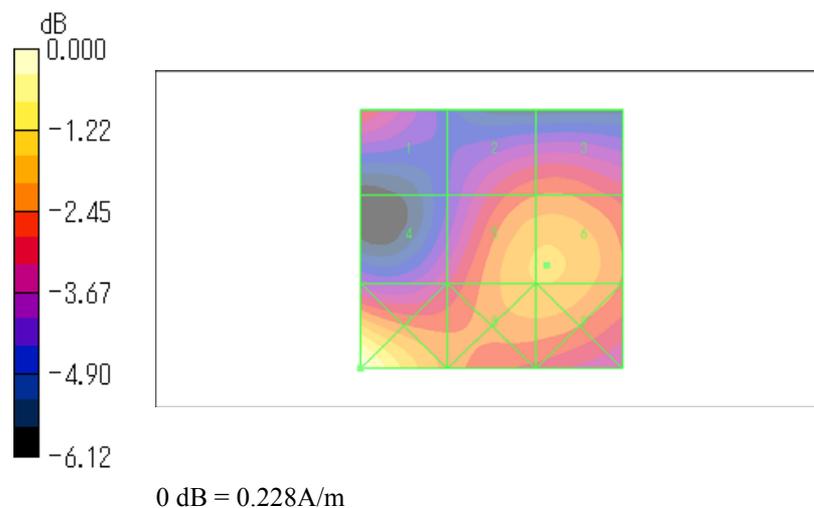
Total = 0.228 A/m

H Category: M3

Location: 25, 25, 366.1 mm

Test Date = 03/07/08

Ambient Temperature = 23.0degree.c



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