

## **APPENDIX A. HAC TEST PLOTS**

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Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /1013

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: CDMA 835MHz FCC; Frequency: 824.7 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**

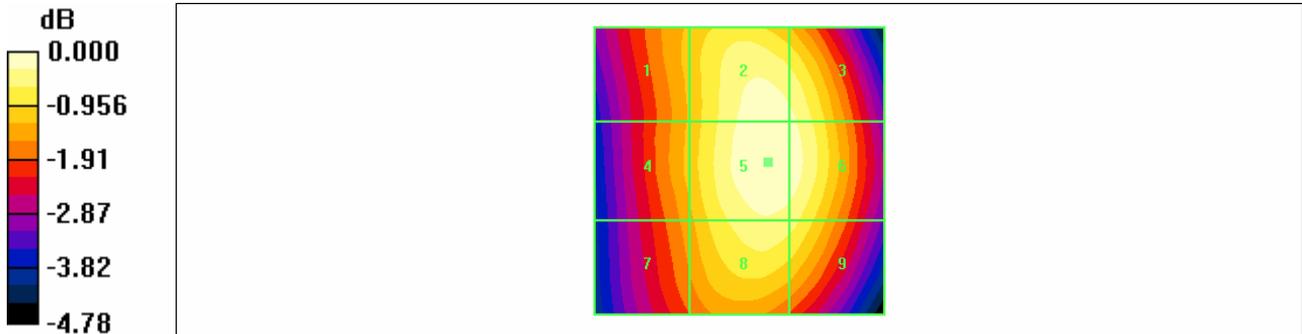
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 55.3 V/m  
 Probe Modulation Factor = 0.963  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 80.0 V/m; Power Drift = 0.028 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
48.6 M4	54.6 M4	53.9 M4
Grid 4	Grid 5	Grid 6
48.6 M4	55.3 M4	54.6 M4
Grid 7	Grid 8	Grid 9
47.3 M4	53.1 M4	52.3 M4

**Cursor:**

Total = 55.3 V/m  
 E Category: M4  
 Location: -5, -1.5, 369.9 mm



0 dB = 55.3V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /384

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: CDMA 835MHz FCC; Frequency: 836.52 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**

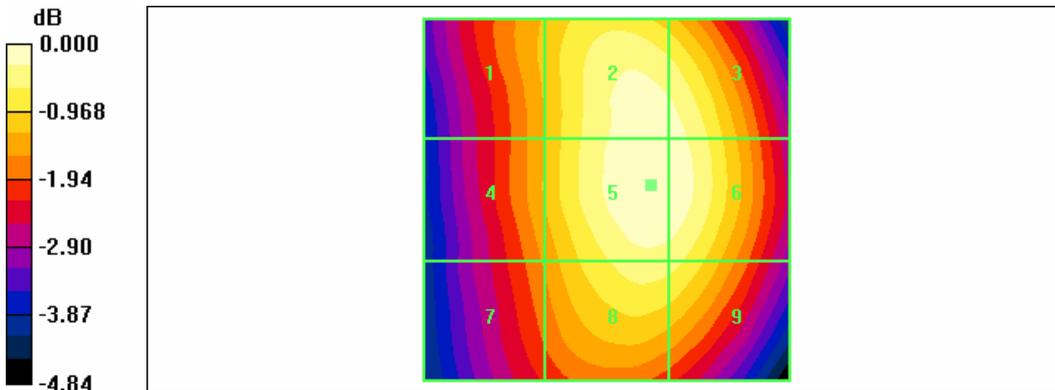
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 56.3 V/m  
 Probe Modulation Factor = 0.963  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 80.9 V/m; Power Drift = 0.110 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
49.1 M4	55.8 M4	55.4 M4
Grid 4	Grid 5	Grid 6
48.8 M4	56.3 M4	56.0 M4
Grid 7	Grid 8	Grid 9
47.1 M4	53.5 M4	53.1 M4

**Cursor:**

Total = 56.3 V/m  
 E Category: M4  
 Location: -6, -2, 369.9 mm



0 dB = 56.3V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /777  
 Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: CDMA 835MHz FCC; Frequency: 848.31 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

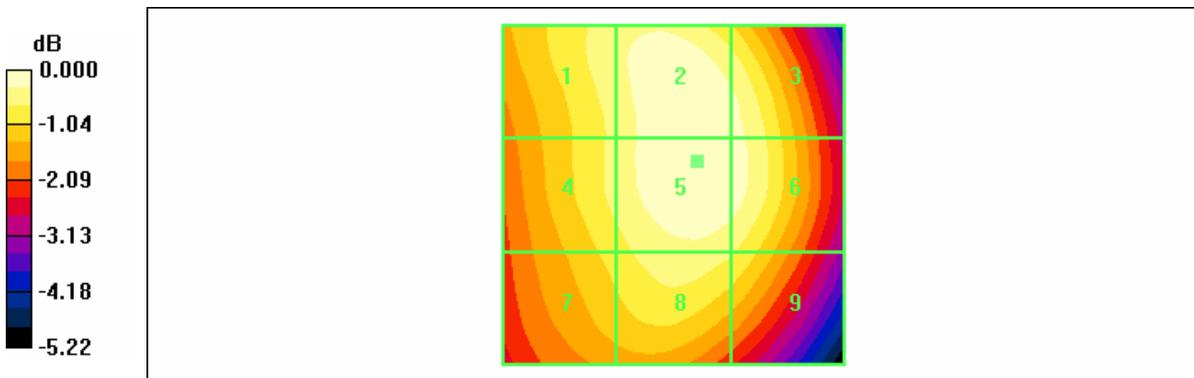
DASY4 Configuration:  
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**  
 Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 46.1 V/m  
 Probe Modulation Factor = 0.963  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 68.6 V/m; Power Drift = -0.032 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
43.8 M4	46.0 M4	45.1 M4
Grid 4	Grid 5	Grid 6
43.2 M4	46.1 M4	45.4 M4
Grid 7	Grid 8	Grid 9
41.7 M4	43.8 M4	42.7 M4

**Cursor:**  
 Total = 46.1 V/m  
 E Category: M4  
 Location: -3.5, -5, 369.9 mm



0 dB = 46.1V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /25

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: PCS 1900MHz FCC; Frequency: 1851.25 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**

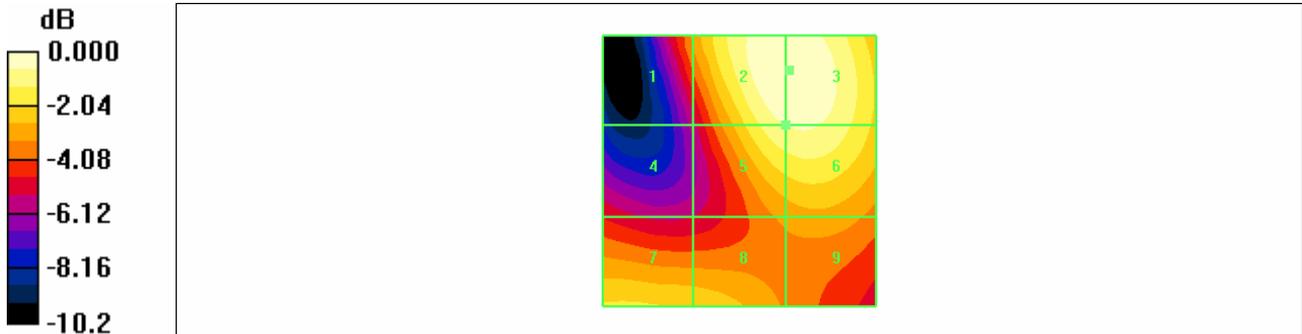
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 45.6 V/m  
 Probe Modulation Factor = 0.953  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 40.4 V/m; Power Drift = -0.274 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
31.6 M4	45.6 M4	45.6 M4
Grid 4	Grid 5	Grid 6
26.4 M4	42.2 M4	42.7 M4
Grid 7	Grid 8	Grid 9
36.7 M4	35.9 M4	32.6 M4

**Cursor:**

Total = 45.6 V/m  
 E Category: M4  
 Location: -9, -18.5, 369.9 mm



0 dB = 45.6V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.3 °C /600  
 Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: PCS 1900MHz FCC; Frequency: 1880 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

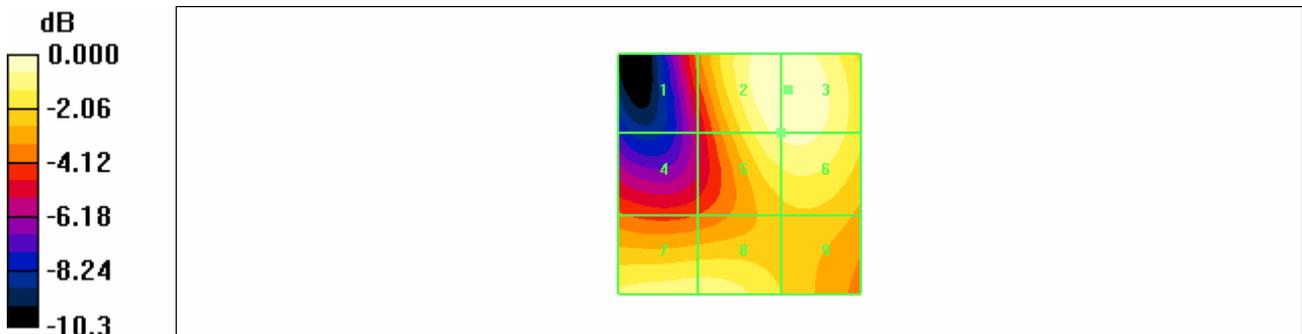
DASY4 Configuration:  
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**  
 Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 44.3 V/m  
 Probe Modulation Factor = 0.953  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 40.3 V/m; Power Drift = -0.085 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
29.1 M4	44.2 M4	44.3 M4
Grid 4	Grid 5	Grid 6
28.1 M4	41.6 M4	42.1 M4
Grid 7	Grid 8	Grid 9
40.3 M4	40.3 M4	35.1 M4

**Cursor:**  
 Total = 44.3 V/m  
 E Category: M4  
 Location: -10, -17.5, 369.9 mm



0 dB = 44.3V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /1175

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: PCS 1900MHz FCC; Frequency: 1908.75 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**

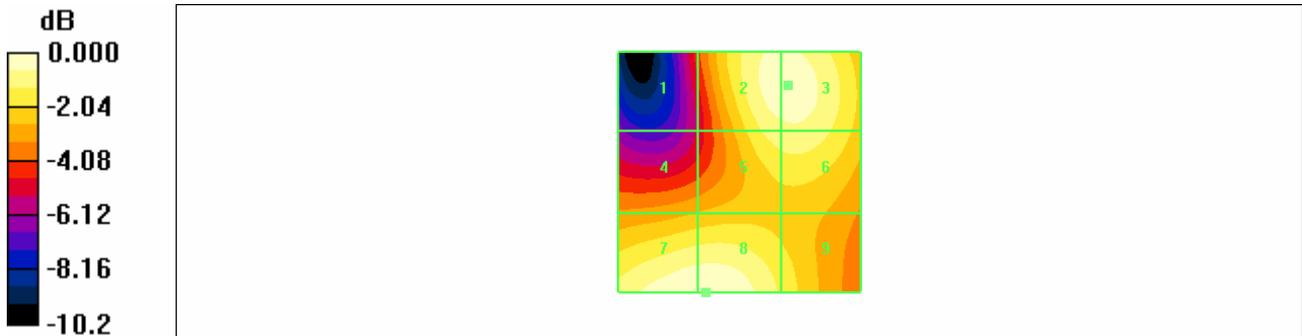
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 40.0 V/m  
 Probe Modulation Factor = 0.953  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 38.8 V/m; Power Drift = -0.125 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
24.7 M4	38.6 M4	38.7 M4
Grid 4	Grid 5	Grid 6
29.4 M4	36.0 M4	36.4 M4
Grid 7	Grid 8	Grid 9
40.0 M4	40.0 M4	33.8 M4

**Cursor:**

Total = 40.0 V/m  
 E Category: M4  
 Location: 7, 25, 369.9 mm



0 dB = 40.0V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /25

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: AWS 1700 MHz FCC; Frequency: 1711.25 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**

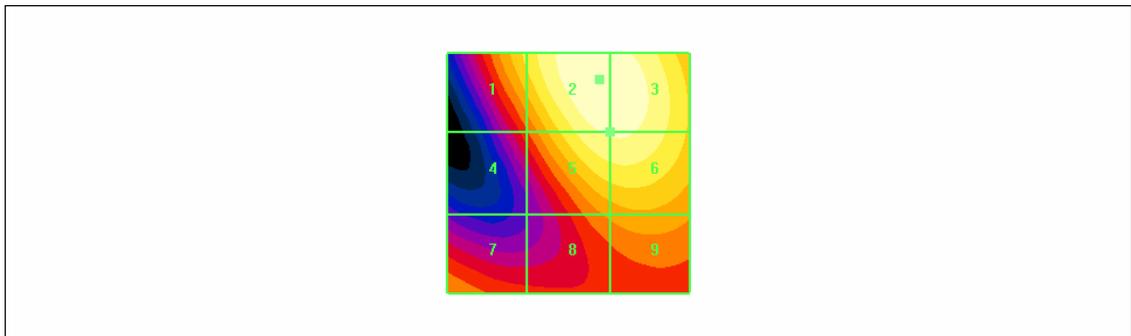
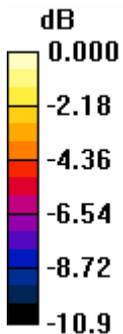
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 50.0 V/m  
 Probe Modulation Factor = 0.953  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 48.3 V/m; Power Drift = -0.103 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
40.3 M4	50.0 M4	49.9 M4
Grid 4	Grid 5	Grid 6
30.1 M4	46.6 M4	46.7 M4
Grid 7	Grid 8	Grid 9
33.2 M4	33.8 M4	35.3 M4

**Cursor:**

Total = 50.0 V/m  
 E Category: M4  
 Location: -6.5, -19.5, 369.9 mm



0 dB = 50.0V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.3 °C /450

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: AWS 1700 MHz FCC; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**

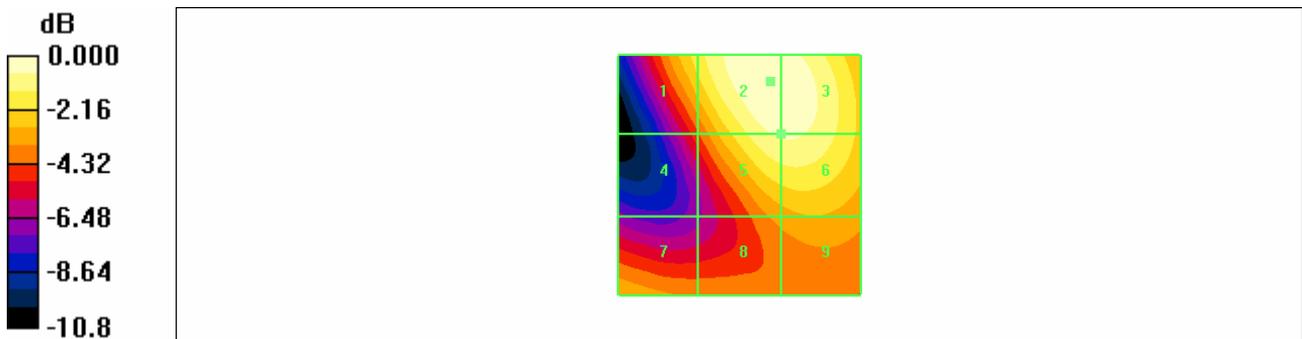
Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 44.7 V/m  
 Probe Modulation Factor = 0.953  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 43.4 V/m; Power Drift = -0.035 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
36.6 M4	44.7 M4	44.5 M4
Grid 4	Grid 5	Grid 6
27.0 M4	41.6 M4	41.7 M4
Grid 7	Grid 8	Grid 9
31.9 M4	30.7 M4	32.1 M4

**Cursor:**

Total = 44.7 V/m  
 E Category: M4  
 Location: -6.5, -19.5, 369.9 mm



0 dB = 44.7V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /875

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: AWS 1700 MHz FCC; Frequency: 1753.75 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 51.7 V/m  
 Probe Modulation Factor = 0.953  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 48.4 V/m; Power Drift = -0.050 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

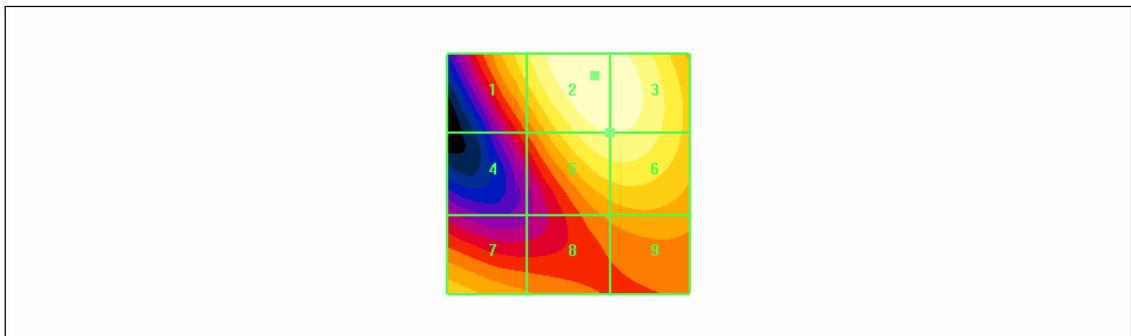
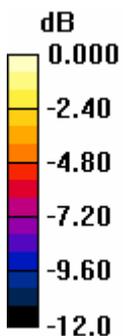
Grid 1	Grid 2	Grid 3
42.9 M4	51.7 M4	51.2 M4
Grid 4	Grid 5	Grid 6
30.1 M4	47.3 M4	47.3 M4
Grid 7	Grid 8	Grid 9
38.2 M4	33.6 M4	35.2 M4

**Cursor:**

Total = 51.7 V/m

E Category: M4

Location: -5.5, -20.5, 369.9 mm



0 dB = 51.7V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /1013

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: CDMA 835MHz FCC; Frequency: 824.7 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

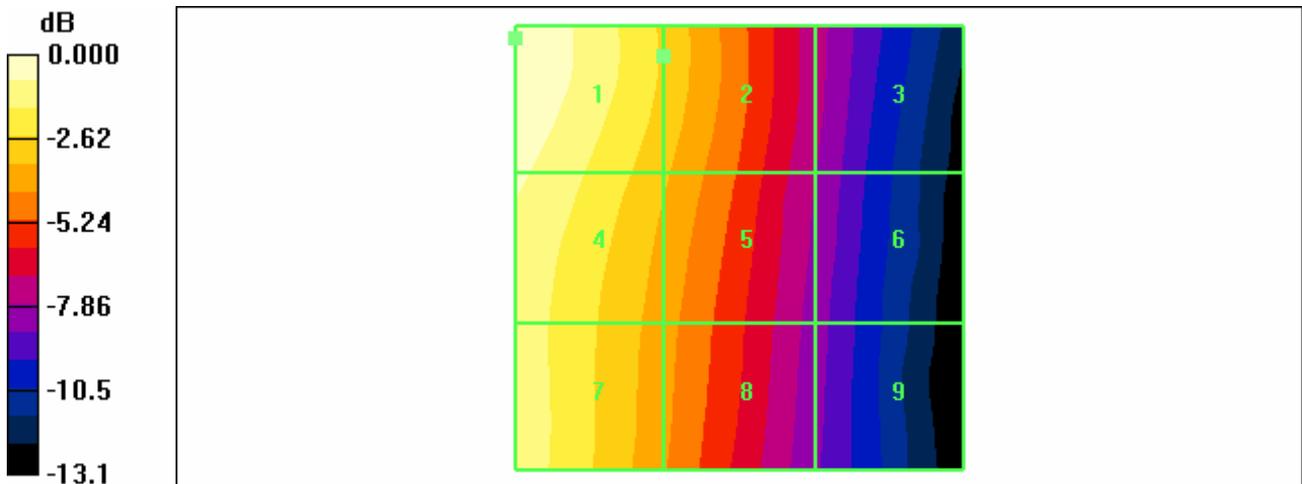
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**  
 Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 0.113 A/m  
 Probe Modulation Factor = 0.868  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.072 A/m; Power Drift = 0.030 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.113 M4	0.082 M4	0.048 M4
Grid 4	Grid 5	Grid 6
0.105 M4	0.077 M4	0.046 M4
Grid 7	Grid 8	Grid 9
0.099 M4	0.072 M4	0.044 M4

**Cursor:**  
 Total = 0.113 A/m  
 H Category: M4  
 Location: 25, -23.5, 369.4 mm



0 dB = 0.113A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.5 °C /384  
 Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: CDMA 835MHz FCC; Frequency: 836.52 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

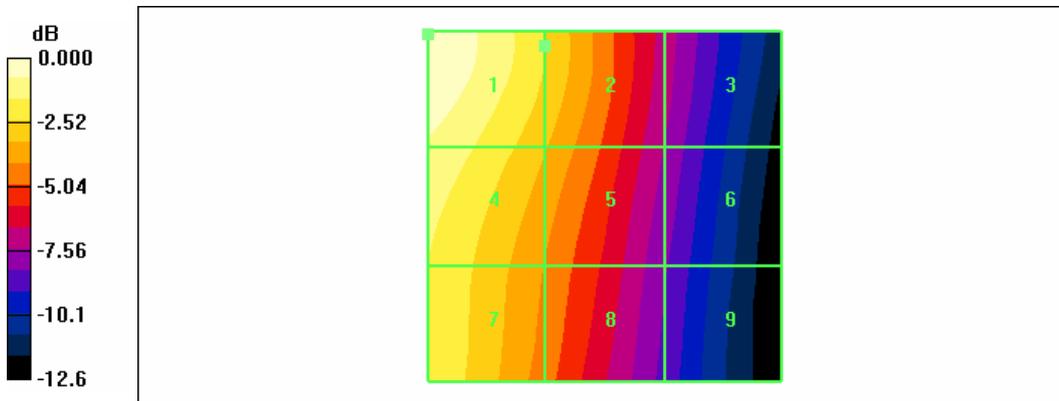
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**  
 Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 0.126 A/m  
 Probe Modulation Factor = 0.868  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.080 A/m; Power Drift = 0.062 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.126 M4	0.094 M4	0.056 M4
Grid 4	Grid 5	Grid 6
0.113 M4	0.087 M4	0.053 M4
Grid 7	Grid 8	Grid 9
0.104 M4	0.078 M4	0.049 M4

**Cursor:**  
 Total = 0.126 A/m  
 H Category: M4  
 Location: 25, -24.5, 369.4 mm



0 dB = 0.126A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /777

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: CDMA 835MHz FCC; Frequency: 848.31 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

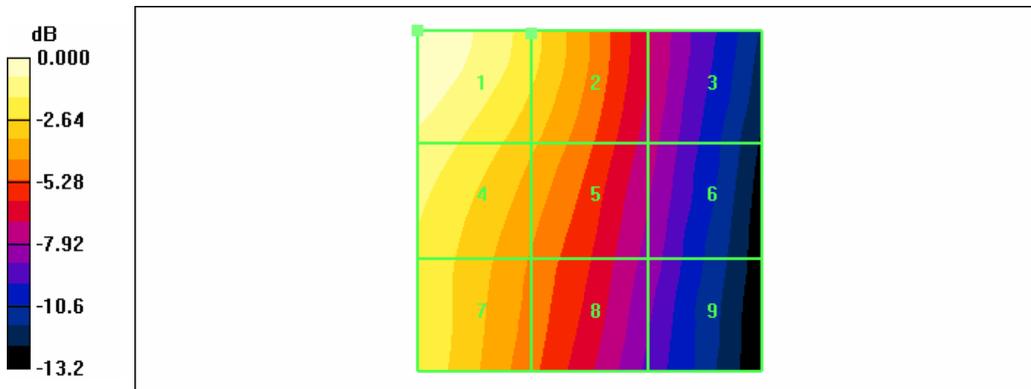
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**  
 Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 0.100 A/m  
 Probe Modulation Factor = 0.868  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.066 A/m; Power Drift = 0.064 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.100 M4	0.077 M4	0.045 M4
Grid 4	Grid 5	Grid 6
0.089 M4	0.068 M4	0.042 M4
Grid 7	Grid 8	Grid 9
0.081 M4	0.060 M4	0.039 M4

**Cursor:**  
 Total = 0.100 A/m  
 H Category: M4  
 Location: 25, -25, 369.4 mm



0 dB = 0.100A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /25

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: AWS 1700 MHz FCC; Frequency: 1711.25 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

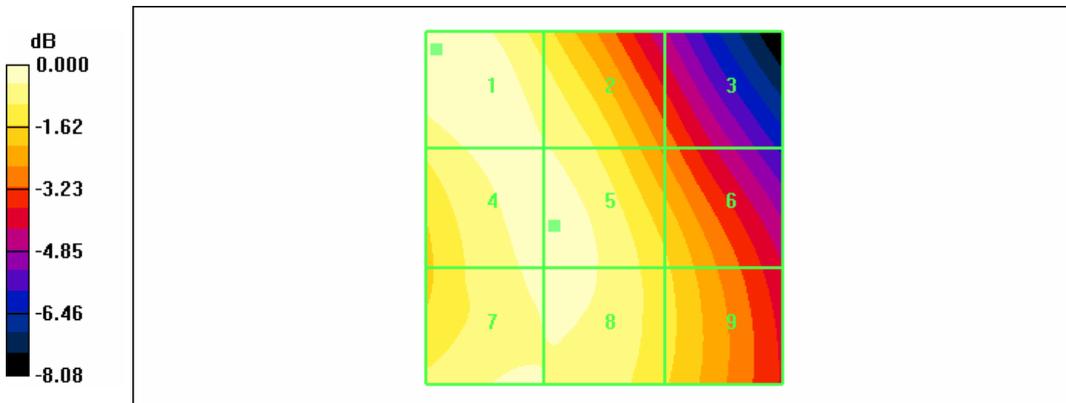
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**  
 Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 0.109 A/m  
 Probe Modulation Factor = 0.784  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.142 A/m; Power Drift = 0.103 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.109 M4	0.103 M4	0.079 M4
Grid 4	Grid 5	Grid 6
0.105 M4	0.105 M4	0.092 M4
Grid 7	Grid 8	Grid 9
0.104 M4	0.104 M4	0.093 M4

**Cursor:**  
 Total = 0.109 A/m  
 H Category: M4  
 Location: 23.5, -22.5, 369.4 mm



0 dB = 0.109A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /600

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: AWS 1700 MHz FCC; Frequency: 1732.5 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

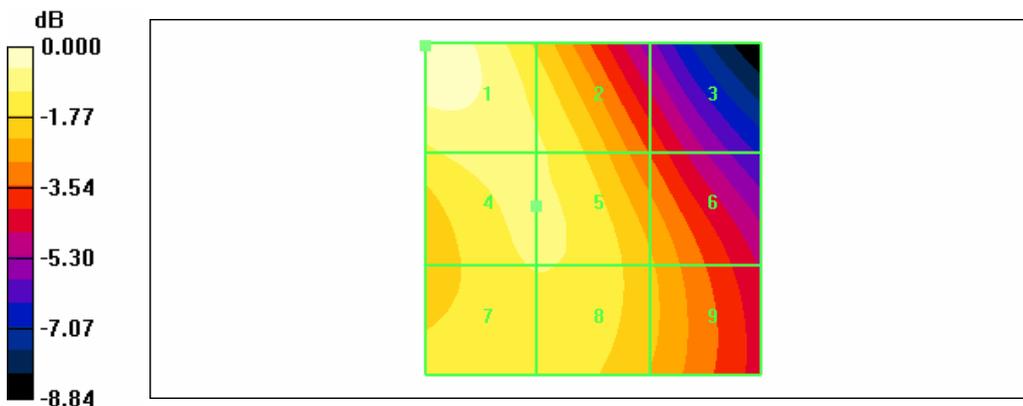
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**  
 Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 0.105 A/m  
 Probe Modulation Factor = 0.784  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.131 A/m; Power Drift = -0.050 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.105 M4	0.093 M4	0.070 M4
Grid 4	Grid 5	Grid 6
0.094 M4	0.093 M4	0.081 M4
Grid 7	Grid 8	Grid 9
0.092 M4	0.092 M4	0.082 M4

**Cursor:**  
 Total = 0.105 A/m  
 H Category: M4  
 Location: 25, -24.5, 369.4 mm



0 dB = 0.105A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /1175

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: AWS 1700 MHz FCC; Frequency: 1753.75 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**

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

Maximum value of peak Total field = 0.125 A/m

Probe Modulation Factor = 0.784

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.158 A/m; Power Drift = -0.064 dB

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

Peak H-field in A/m

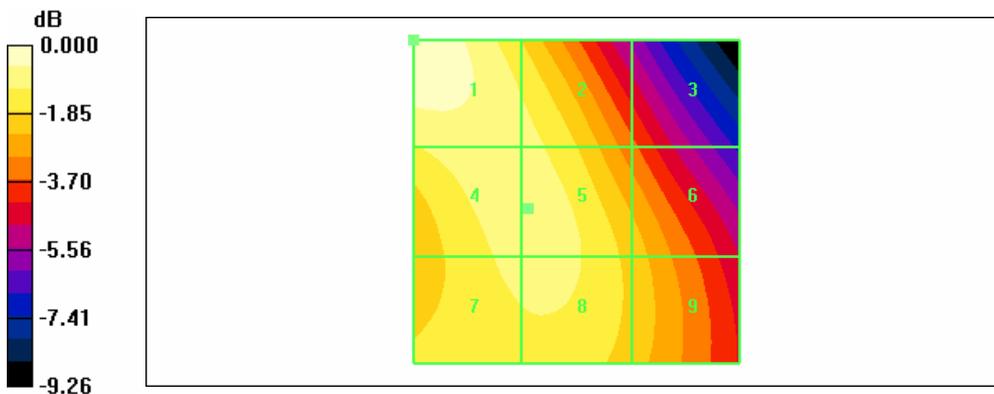
Grid 1	Grid 2	Grid 3
0.125 M4	0.112 M4	0.084 M4
Grid 4	Grid 5	Grid 6
0.113 M4	0.112 M4	0.098 M4
Grid 7	Grid 8	Grid 9
0.111 M4	0.111 M4	0.099 M4

**Cursor:**

Total = 0.125 A/m

H Category: M4

Location: 25, -25, 369.4 mm



0 dB = 0.125A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.5 °C /25  
 Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: PCS 1900MHz FCC; Frequency: 1851.25 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

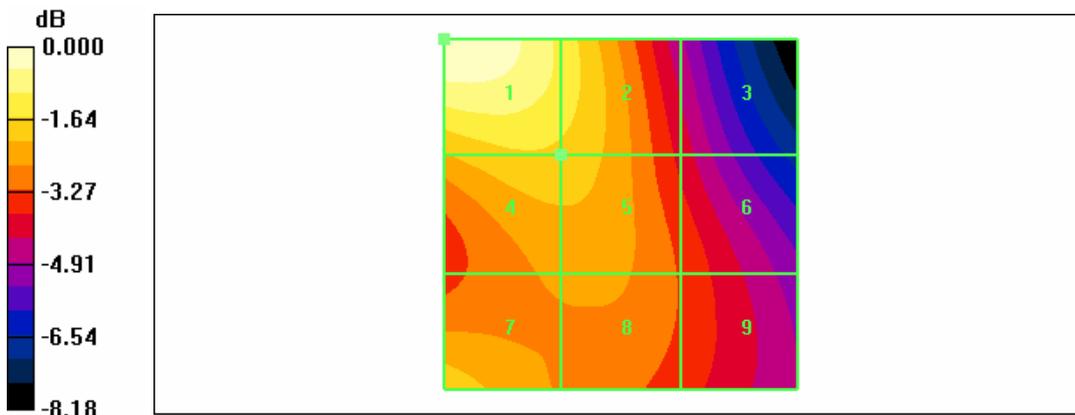
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**  
 Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 0.119 A/m  
 Probe Modulation Factor = 0.784  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.132 A/m; Power Drift = -0.351 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.119 M4	0.103 M4	0.075 M4
Grid 4	Grid 5	Grid 6
0.098 M4	0.097 M4	0.081 M4
Grid 7	Grid 8	Grid 9
0.097 M4	0.089 M4	0.081 M4

**Cursor:**  
 Total = 0.119 A/m  
 H Category: M4  
 Location: 25, -25, 369.4 mm



0 dB = 0.119A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.5 °C /450

Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: PCS 1900MHz FCC; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**

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

Maximum value of peak Total field = 0.115 A/m

Probe Modulation Factor = 0.784

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.135 A/m; Power Drift = -0.154 dB

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

Peak H-field in A/m

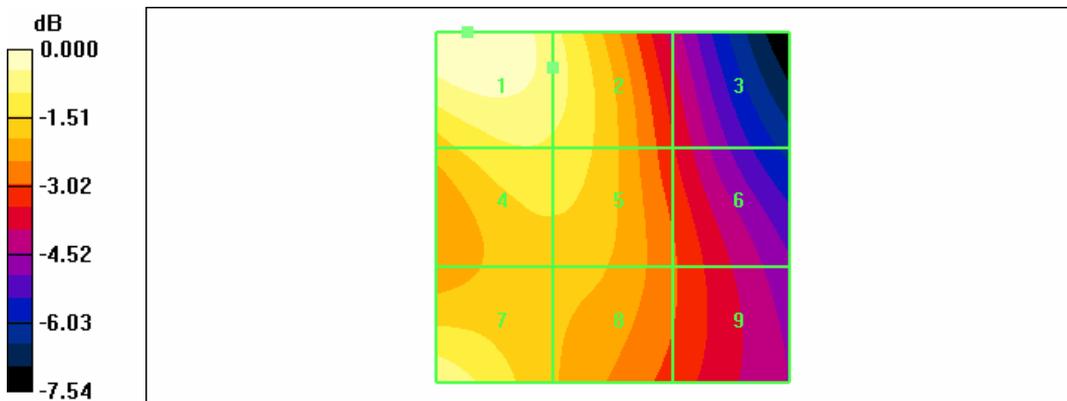
Grid 1	Grid 2	Grid 3
0.115 M4	0.106 M4	0.077 M4
Grid 4	Grid 5	Grid 6
0.102 M4	0.101 M4	0.082 M4
Grid 7	Grid 8	Grid 9
0.107 M4	0.094 M4	0.082 M4

**Cursor:**

Total = 0.115 A/m

H Category: M4

Location: 20.5, -25, 369.4 mm



0 dB = 0.115A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.5 °C /875  
 Test Date Feb. 15, 2011

**DUT: A415; Type: Bar; Serial: #1**

Communication System: PCS 1900MHz FCC; Frequency: 1908.75 MHz;Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

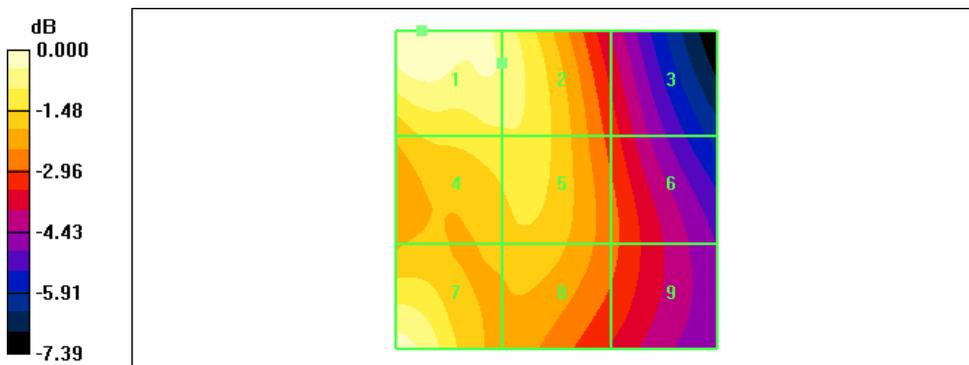
DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):**  
 Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 0.106 A/m  
 Probe Modulation Factor = 0.784  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.133 A/m; Power Drift = -0.183 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.106 M4	0.099 M4	0.074 M4
Grid 4	Grid 5	Grid 6
0.094 M4	0.094 M4	0.077 M4
Grid 7	Grid 8	Grid 9
0.103 M4	0.088 M4	0.077 M4

**Cursor:**  
 Total = 0.106 A/m  
 H Category: M4  
 Location: 21, -25, 369.4 mm



0 dB = 0.106A/m