

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

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Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /1013  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide up; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

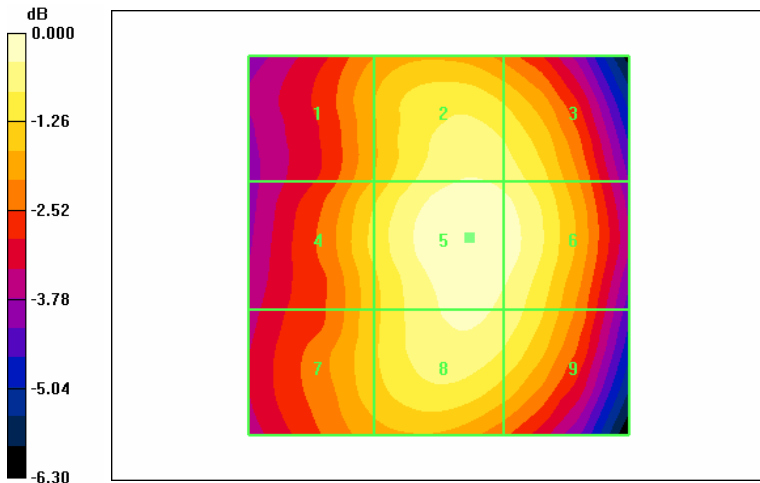
**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 94.8 V/m  
 Probe Modulation Factor = 0.947  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 107.1 V/m; Power Drift = 0.016 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
79.0 M4	90.7 M4	89.1 M4
Grid 4	Grid 5	Grid 6
83.5 M4	94.8 M4	92.9 M4
Grid 7	Grid 8	Grid 9
81.5 M4	91.4 M4	89.1 M4

**Cursor:**

Total = 94.8 V/m  
 E Category: M4  
 Location: -4, -1, 364.8 mm



0 dB = 94.8V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /384  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide up; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:  
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn447; Calibrated: 2007-09-13  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

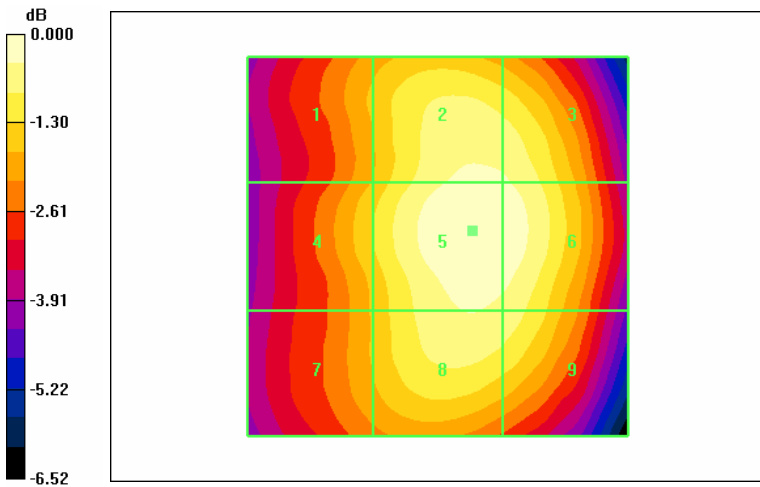
**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 96.6 V/m  
 Probe Modulation Factor = 0.947  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 107.1 V/m; Power Drift = -0.073 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
80.3 M4	93.3 M4	92.6 M4
Grid 4	Grid 5	Grid 6
83.4 M4	96.6 M4	95.5 M4
Grid 7	Grid 8	Grid 9
79.9 M4	92.0 M4	90.6 M4

**Cursor:**  
 Total = 96.6 V/m  
 E Category: M4  
 Location: -4.5, -2, 364.8 mm



0 dB = 96.6V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /777  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide up; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

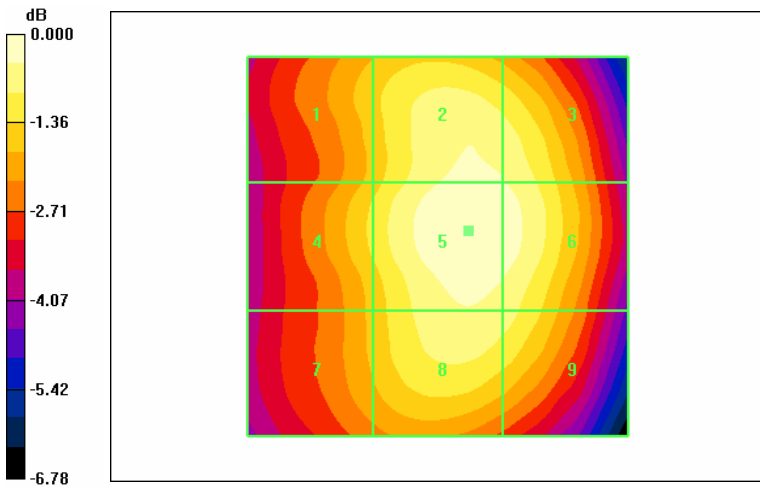
Maximum value of peak Total field = 100.4 V/m  
 Probe Modulation Factor = 0.947  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 110.8 V/m; Power Drift = -0.050 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
84.8 M4	97.1 M4	95.6 M4
Grid 4	Grid 5	Grid 6
87.4 M4	100.4 M4	98.4 M4
Grid 7	Grid 8	Grid 9
83.2 M4	95.1 M4	92.8 M4

**Cursor:**

Total = 100.4 V/m  
 E Category: M4  
 Location: -4, -2, 364.8 mm



0 dB = 100.4V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /25  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide up; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

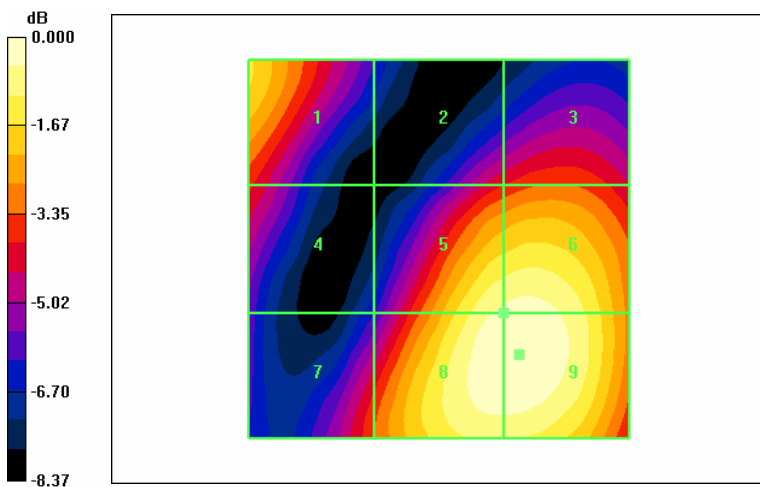
Maximum value of peak Total field = 72.1 V/m  
 Probe Modulation Factor = 0.965  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 50.4 V/m; Power Drift = -0.037 dB  
**Hearing Aid Near-Field Category: M3 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
60.3 M4	46.0 M4	49.3 M4
Grid 4	Grid 5	Grid 6
46.8 M4	69.0 M3	70.0 M3
Grid 7	Grid 8	Grid 9
49.1 M4	71.7 M3	72.1 M3

**Cursor:**

Total = 72.1 V/m  
 E Category: M3  
 Location: -10.5, 14, 364.8 mm



0 dB = 72.1V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /600  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide up; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

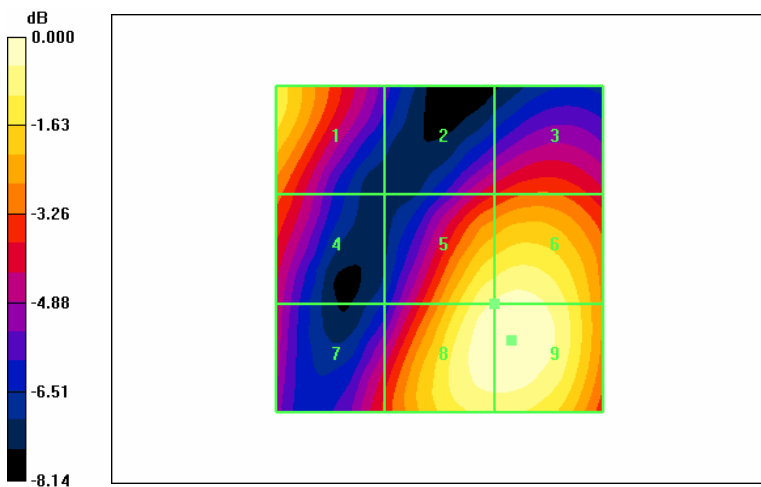
Maximum value of peak Total field = 70.1 V/m  
 Probe Modulation Factor = 0.965  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 48.6 V/m; Power Drift = -0.038 dB  
**Hearing Aid Near-Field Category: M3 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
60.7 M4	45.1 M4	48.6 M4
Grid 4	Grid 5	Grid 6
49.5 M4	66.6 M3	68.0 M3
Grid 7	Grid 8	Grid 9
46.1 M4	69.4 M3	70.1 M3

**Cursor:**

Total = 70.1 V/m  
 E Category: M3  
 Location: -11, 14, 364.8 mm



0 dB = 70.1V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /1175

Test Date April 05, 2008

**DUT: CDM8964; Type: Slide up; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 59.4 V/m

Probe Modulation Factor = 0.965

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 38.4 V/m; Power Drift = -0.150 dB

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

Peak E-field in V/m

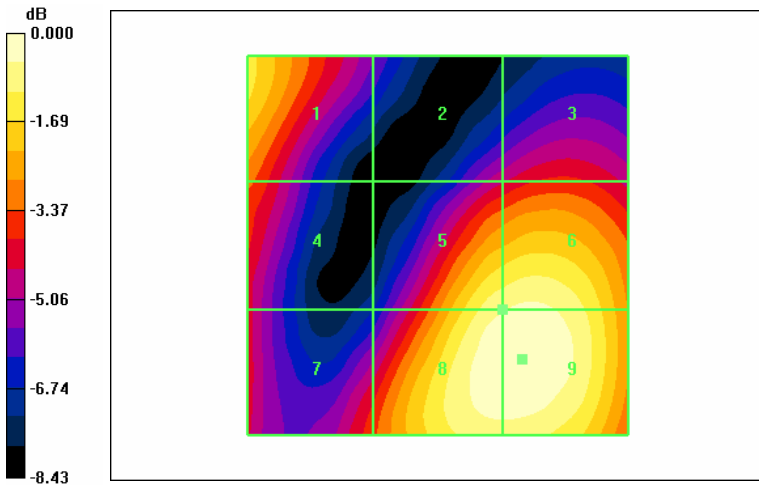
Grid 1	Grid 2	Grid 3
50.3 M4	35.1 M4	38.5 M4
Grid 4	Grid 5	Grid 6
41.3 M4	55.5 M4	56.8 M4
Grid 7	Grid 8	Grid 9
39.7 M4	58.8 M4	59.4 M4

**Cursor:**

Total = 59.4 V/m

E Category: M4

Location: -11, 15, 364.8 mm



0 dB = 59.4V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /1013  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide up; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn447; Calibrated: 2007-09-13  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

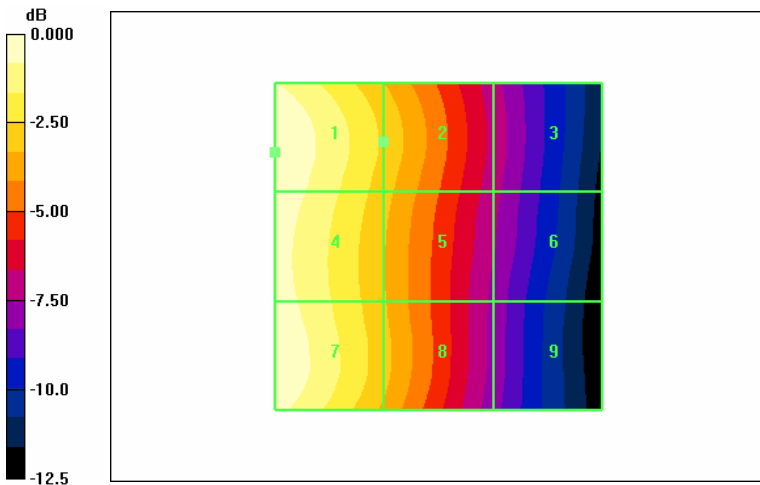
**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.161 A/m  
 Probe Modulation Factor = 0.872  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.102 A/m; Power Drift = 0.197 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.161 M4	0.119 M4	0.073 M4
Grid 4	Grid 5	Grid 6
0.157 M4	0.115 M4	0.070 M4
Grid 7	Grid 8	Grid 9
0.160 M4	0.114 M4	0.066 M4

**Cursor:**  
 Total = 0.161 A/m  
 H Category: M4  
 Location: 25, -14.5, 365.6 mm



0 dB = 0.161A/m



Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /384

Test Date April 05, 2008

**DUT: CDM8964; Type: Slide up; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.167 A/m

Probe Modulation Factor = 0.872

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.107 A/m; Power Drift = -0.224 dB

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

Peak H-field in A/m

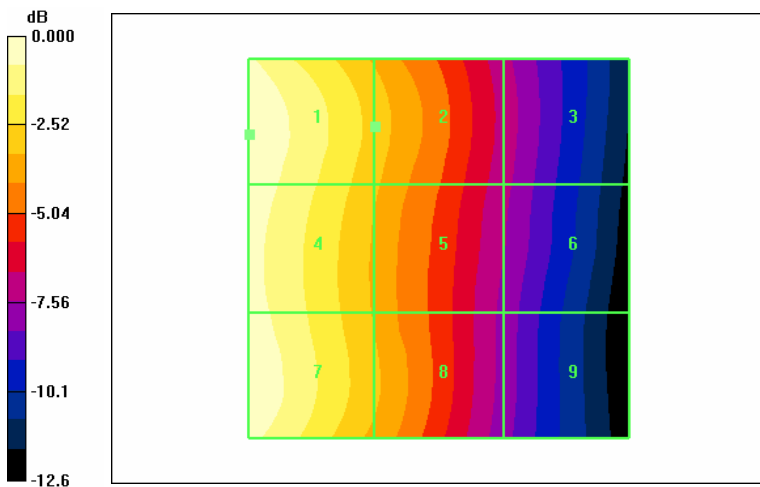
Grid 1	Grid 2	Grid 3
0.167 M4	0.120 M4	0.074 M4
Grid 4	Grid 5	Grid 6
0.162 M4	0.116 M4	0.072 M4
Grid 7	Grid 8	Grid 9
0.164 M4	0.116 M4	0.068 M4

**Cursor:**

Total = 0.167 A/m

H Category: M4

Location: 25, -15, 365.6 mm



0 dB = 0.167A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /777

Test Date April 05, 2008

**DUT: CDM8964; Type: Slide up; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

- DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25
  - Sensor-Surface: (Fix Surface)
  - Electronics: DAE4 Sn447; Calibrated: 2007-09-13
  - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.170 A/m

Probe Modulation Factor = 0.872

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.099 A/m; Power Drift = 0.155 dB

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

Peak H-field in A/m

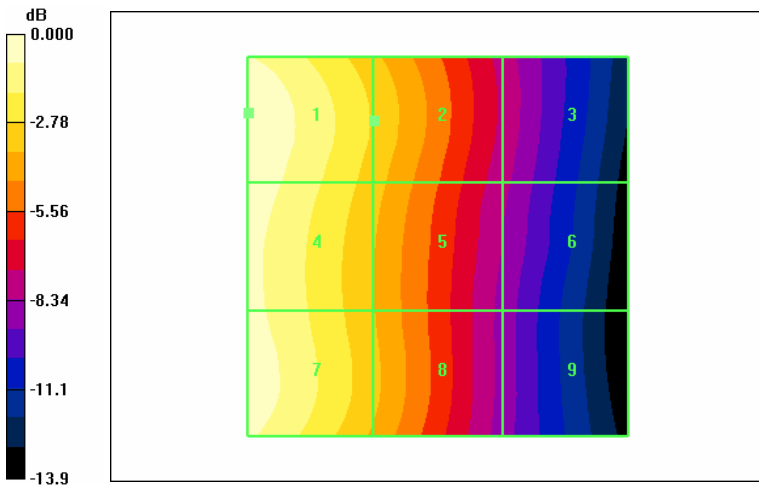
Grid 1	Grid 2	Grid 3
0.170 M4	0.122 M4	0.071 M4
Grid 4	Grid 5	Grid 6
0.165 M4	0.117 M4	0.068 M4
Grid 7	Grid 8	Grid 9
0.164 M4	0.114 M4	0.063 M4

**Cursor:**

Total = 0.170 A/m

H Category: M4

Location: 25, -17.5, 365.6 mm



0 dB = 0.170A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C / 25  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide up; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn447; Calibrated: 2007-09-13  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

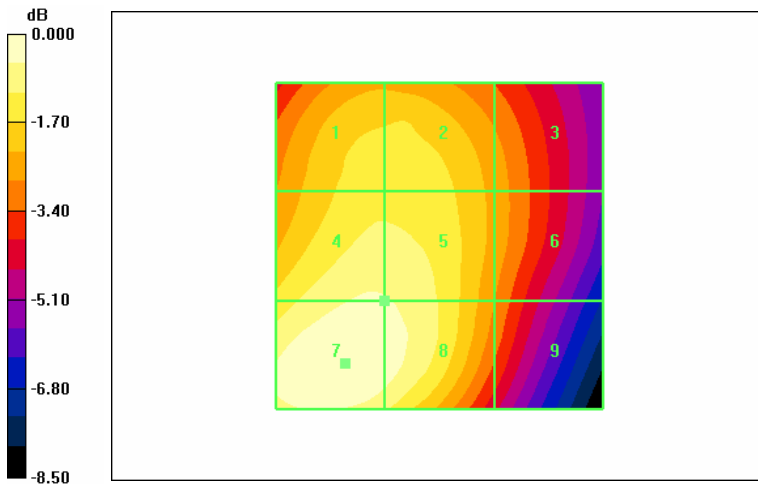
Maximum value of peak Total field = 0.159 A/m  
 Probe Modulation Factor = 0.761  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.192 A/m; Power Drift = -0.133 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.136 M4	0.136 M4	0.120 M4
Grid 4	Grid 5	Grid 6
0.151 M4	0.150 M4	0.120 M4
Grid 7	Grid 8	Grid 9
0.159 M4	0.155 M4	0.115 M4

**Cursor:**

Total = 0.159 A/m  
 H Category: M4  
 Location: 14.5, 18, 365.6 mm



0 dB = 0.159A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /600  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide up; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn447; Calibrated: 2007-09-13  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

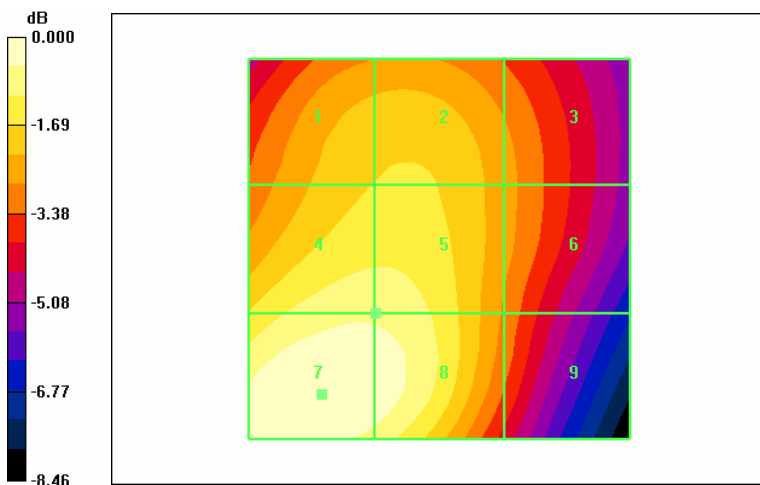
**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.162 A/m  
 Probe Modulation Factor = 0.761  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.189 A/m; Power Drift = -0.192 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.134 M4	0.135 M4	0.120 M4
Grid 4	Grid 5	Grid 6
0.150 M4	0.150 M4	0.120 M4
Grid 7	Grid 8	Grid 9
0.162 M4	0.158 M4	0.116 M4

**Cursor:**  
 Total = 0.162 A/m  
 H Category: M4  
 Location: 15.5, 19, 365.6 mm



0 dB = 0.162A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /1175  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide up; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn447; Calibrated: 2007-09-13  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

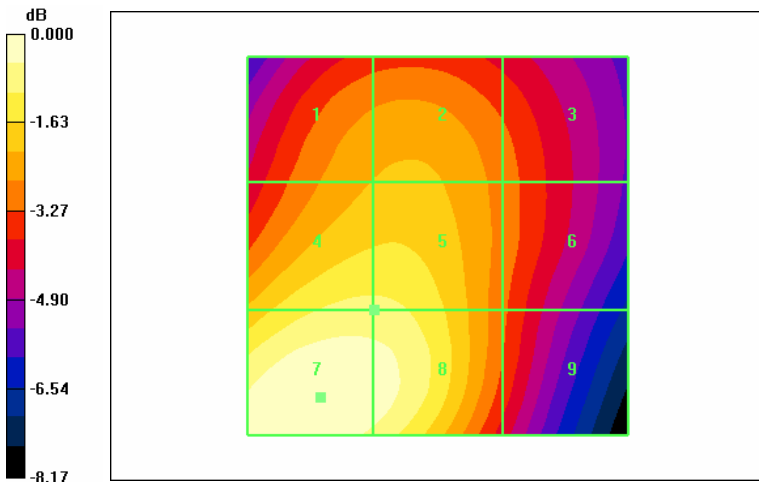
**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.142 A/m  
 Probe Modulation Factor = 0.761  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.156 A/m; Power Drift = 0.031 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.111 M4	0.112 M4	0.101 M4
Grid 4	Grid 5	Grid 6
0.128 M4	0.128 M4	0.101 M4
Grid 7	Grid 8	Grid 9
0.142 M4	0.138 M4	0.099 M4

**Cursor:**  
 Total = 0.142 A/m  
 H Category: M4  
 Location: 15.5, 20, 365.6 mm



0 dB = 0.142A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /1013

Test Date April 05, 2008

**DUT: CDM8964; Type: Slide down; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 82.4 V/m

Probe Modulation Factor = 0.947

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 95.0 V/m; Power Drift = -0.185 dB

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

Peak E-field in V/m

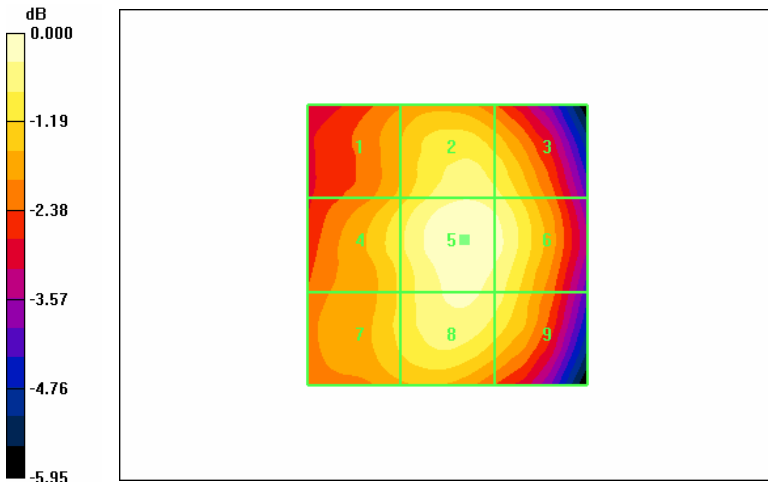
Grid 1	Grid 2	Grid 3
70.0 M4	78.4 M4	76.5 M4
Grid 4	Grid 5	Grid 6
74.5 M4	82.4 M4	80.1 M4
Grid 7	Grid 8	Grid 9
72.8 M4	79.5 M4	76.9 M4

**Cursor:**

Total = 82.4 V/m

E Category: M4

Location: -3, -1, 364.8 mm



0 dB = 82.4V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /384  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide down; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:  
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn447; Calibrated: 2007-09-13  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

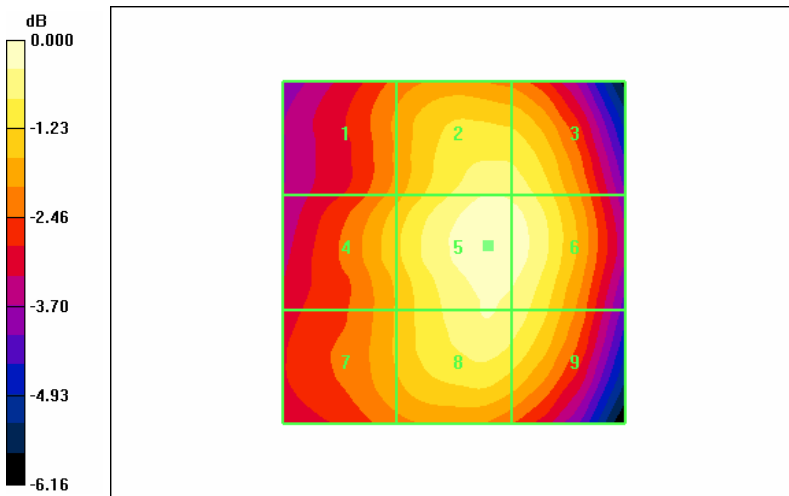
**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 82.2 V/m  
 Probe Modulation Factor = 0.947  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 89.7 V/m; Power Drift = 0.174 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
66.6 M4	78.4 M4	77.6 M4
Grid 4	Grid 5	Grid 6
70.6 M4	82.2 M4	80.8 M4
Grid 7	Grid 8	Grid 9
68.6 M4	78.6 M4	77.2 M4

**Cursor:**  
 Total = 82.2 V/m  
 E Category: M4  
 Location: -5, -1, 364.8 mm



0 dB = 82.2V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /777

Test Date April 05, 2008

**DUT: CDM8964; Type: Slide down; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 80.4 V/m

Probe Modulation Factor = 0.947

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 88.8 V/m; Power Drift = -0.033 dB

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

Peak E-field in V/m

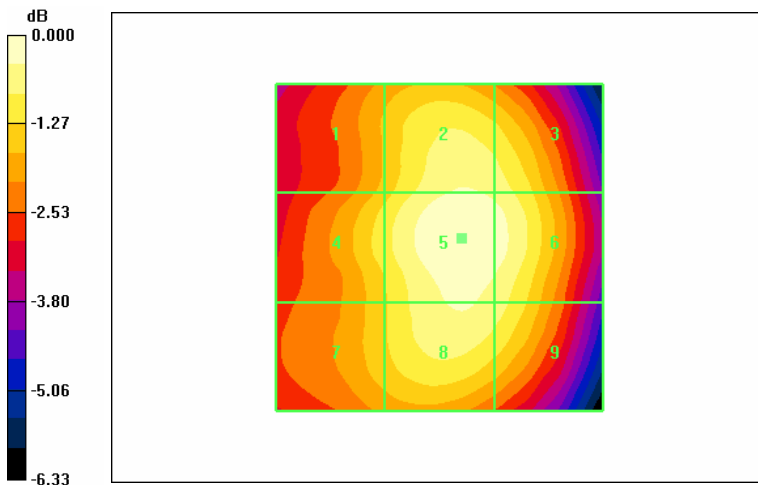
Grid 1	Grid 2	Grid 3
67.8 M4	77.1 M4	75.6 M4
Grid 4	Grid 5	Grid 6
71.6 M4	80.4 M4	78.6 M4
Grid 7	Grid 8	Grid 9
69.1 M4	77.0 M4	74.9 M4

**Cursor:**

Total = 80.4 V/m

E Category: M4

Location: -3.5, -1.5, 364.8 mm



0 dB = 80.4V/m



Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /25  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide down; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

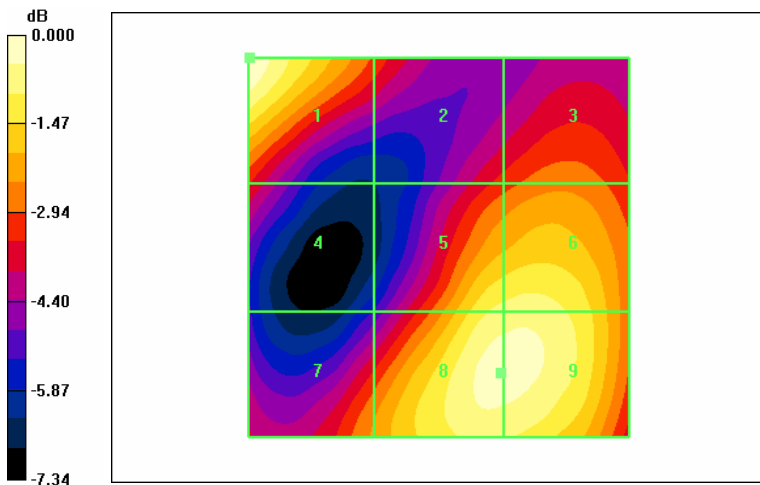
Maximum value of peak Total field = 38.6 V/m  
 Probe Modulation Factor = 0.965  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 27.1 V/m; Power Drift = -0.171 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
<b>38.6 M4</b>	<b>27.3 M4</b>	<b>28.7 M4</b>
Grid 4	<b>Grid 5</b>	Grid 6
<b>26.3 M4</b>	<b>35.3 M4</b>	<b>35.7 M4</b>
Grid 7	Grid 8	Grid 9
<b>29.6 M4</b>	<b>37.2 M4</b>	<b>37.2 M4</b>

**Cursor:**

Total = 38.6 V/m  
 E Category: M4  
 Location: 25, -25, 364.8 mm



0 dB = 38.6V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /600  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide down; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

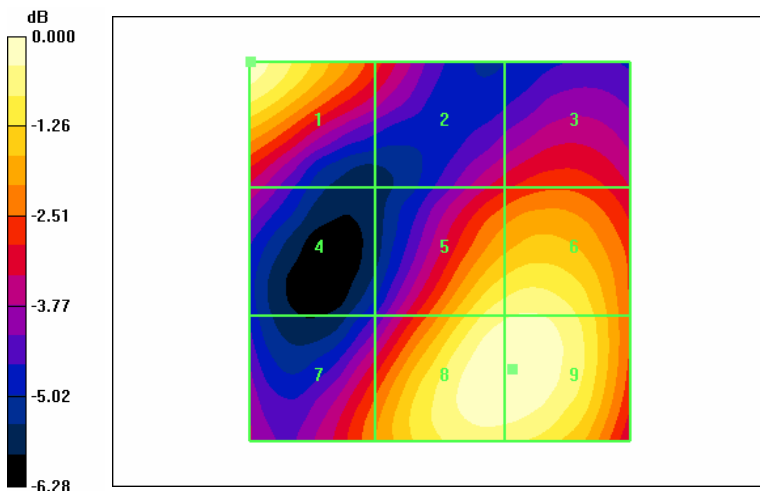
Maximum value of peak Total field = 37.9 V/m  
 Probe Modulation Factor = 0.965  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 27.6 V/m; Power Drift = -0.038 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
<b>37.2 M4</b>	<b>27.6 M4</b>	<b>28.2 M4</b>
Grid 4	<b>Grid 5</b>	Grid 6
<b>25.6 M4</b>	<b>35.9 M4</b>	<b>36.4 M4</b>
Grid 7	Grid 8	Grid 9
<b>29.7 M4</b>	<b>37.9 M4</b>	<b>37.9 M4</b>

**Cursor:**

Total = 37.9 V/m  
 E Category: M4  
 Location: -9.5, 15.5, 364.8 mm



0 dB = 37.9V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /1175  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide down; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2007-06-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**E Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

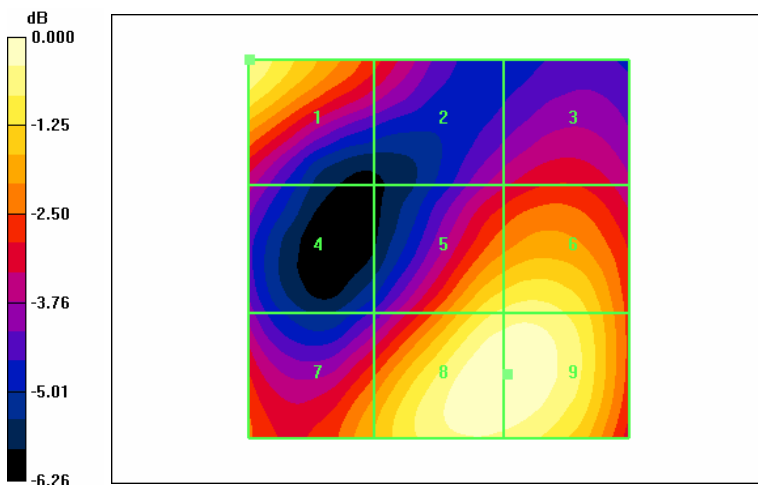
Maximum value of peak Total field = 34.5 V/m  
 Probe Modulation Factor = 0.965  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 24.2 V/m; Power Drift = -0.129 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
<b>32.8 M4</b>	<b>25.1 M4</b>	<b>24.8 M4</b>
Grid 4	<b>Grid 5</b>	Grid 6
<b>22.9 M4</b>	<b>31.8 M4</b>	<b>32.3 M4</b>
Grid 7	Grid 8	Grid 9
<b>28.6 M4</b>	<b>34.5 M4</b>	<b>34.5 M4</b>

**Cursor:**

Total = 34.5 V/m  
 E Category: M4  
 Location: -9, 16.5, 364.8 mm



0 dB = 34.5V/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /1013  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide down; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.151 A/m

Probe Modulation Factor = 0.872

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.097 A/m; Power Drift = -0.202 dB

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

Peak H-field in A/m

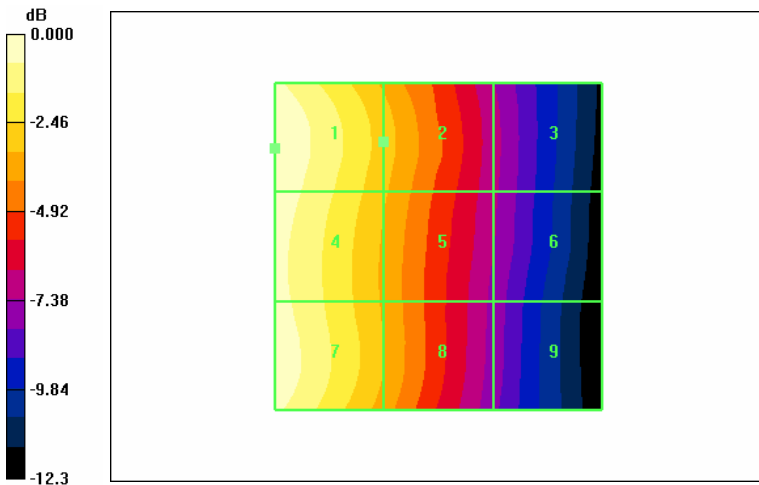
Grid 1	Grid 2	Grid 3
0.151 M4	0.109 M4	0.067 M4
Grid 4	Grid 5	Grid 6
0.147 M4	0.106 M4	0.066 M4
Grid 7	Grid 8	Grid 9
0.147 M4	0.104 M4	0.063 M4

**Cursor:**

Total = 0.151 A/m

H Category: M4

Location: 25, -15, 365.6 mm



0 dB = 0.151A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /384  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide down; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn447; Calibrated: 2007-09-13  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

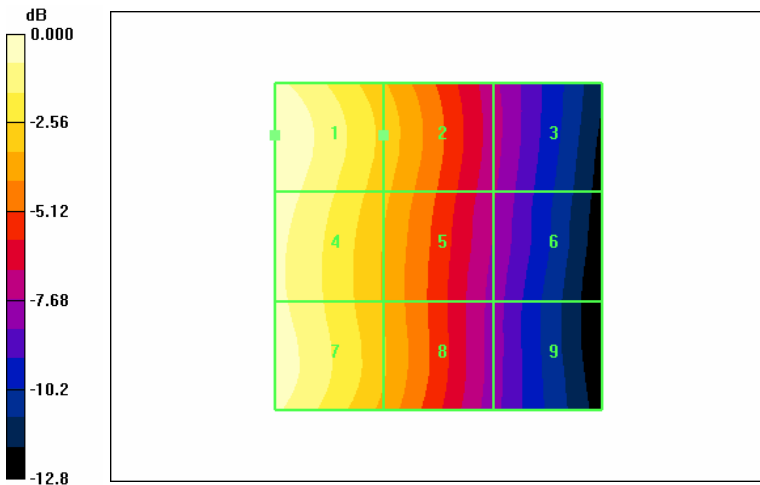
**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.146 A/m  
 Probe Modulation Factor = 0.872  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.092 A/m; Power Drift = -0.127 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.146 M4	0.106 M4	0.063 M4
Grid 4	Grid 5	Grid 6
0.141 M4	0.102 M4	0.061 M4
Grid 7	Grid 8	Grid 9
0.141 M4	0.100 M4	0.058 M4

**Cursor:**  
 Total = 0.146 A/m  
 H Category: M4  
 Location: 25, -17, 365.6 mm



0 dB = 0.146A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /777  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide down; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

**DASY4 Configuration:**

- Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.138 A/m

Probe Modulation Factor = 0.872

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.084 A/m; Power Drift = -0.069 dB

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

Peak H-field in A/m

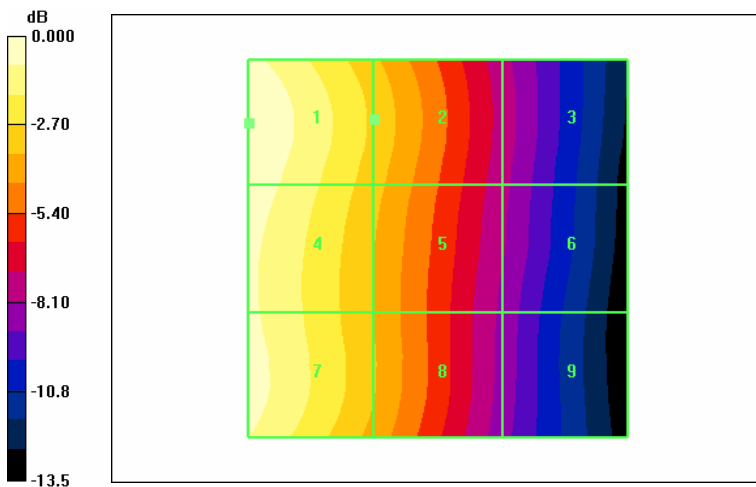
Grid 1	Grid 2	Grid 3
0.138 M4	0.099 M4	0.058 M4
Grid 4	Grid 5	Grid 6
0.133 M4	0.095 M4	0.056 M4
Grid 7	Grid 8	Grid 9
0.130 M4	0.092 M4	0.053 M4

**Cursor:**

Total = 0.138 A/m

H Category: M4

Location: 25, -16.5, 365.6 mm



0 dB = 0.138A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C / 25  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide down; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn447; Calibrated: 2007-09-13  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

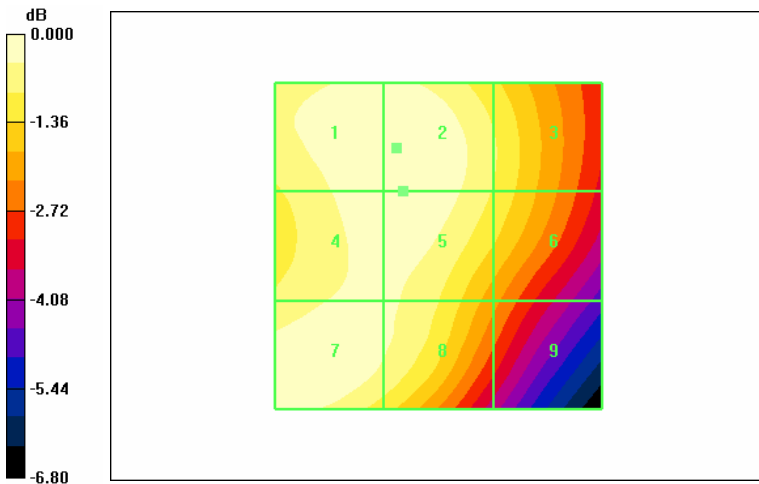
Maximum value of peak Total field = 0.080 A/m  
 Probe Modulation Factor = 0.761  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.102 A/m; Power Drift = -0.016 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.080 M4	0.080 M4	0.073 M4
Grid 4	Grid 5	Grid 6
0.079 M4	0.079 M4	0.072 M4
Grid 7	Grid 8	Grid 9
0.079 M4	0.077 M4	0.063 M4

**Cursor:**

Total = 0.080 A/m  
 H Category: M4  
 Location: 6.5, -15, 365.6 mm



0 dB = 0.080A/m

Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /600  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide down; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

- DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn447; Calibrated: 2007-09-13  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

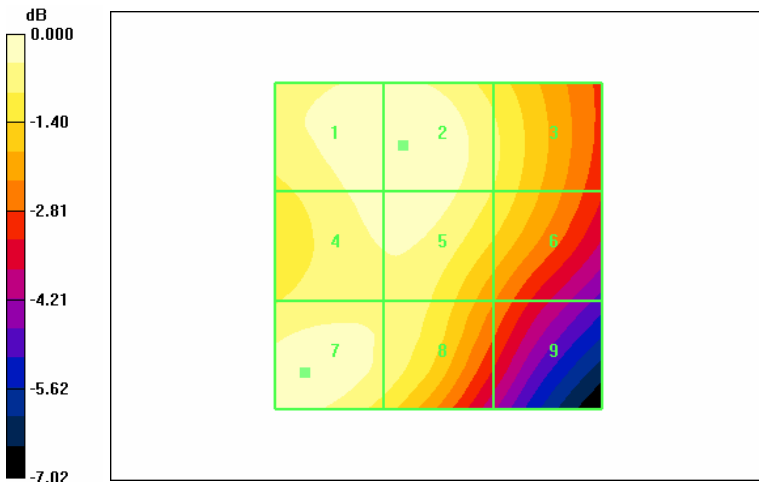
**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.080 A/m  
 Probe Modulation Factor = 0.761  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.102 A/m; Power Drift = -0.116 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.079 M4	0.080 M4	0.073 M4
Grid 4	Grid 5	Grid 6
0.078 M4	0.079 M4	0.072 M4
Grid 7	Grid 8	Grid 9
0.079 M4	0.075 M4	0.061 M4

**Cursor:**  
 Total = 0.080 A/m  
 H Category: M4  
 Location: 5.5, -15.5, 365.6 mm



0 dB = 0.080A/m



Test Laboratory: HCT CO., LTD.  
 Ambient Temperature / Channel 21.6 °C /1175  
 Test Date April 05, 2008

**DUT: CDM8964; Type: Slide down; 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 53; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:  
 - Probe: H3DV6 - SN6101; ; Calibrated: 2007-07-25  
 - Sensor-Surface: (Fix Surface)  
 - Electronics: DAE4 Sn447; Calibrated: 2007-09-13  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

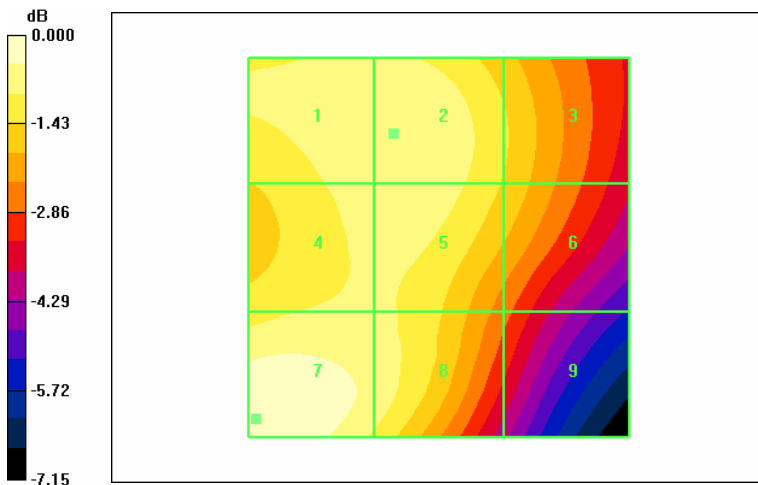
**H Scan 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.075 A/m  
 Probe Modulation Factor = 0.761  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
 Reference Value = 0.091 A/m; Power Drift = -0.037 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.071 M4	0.071 M4	0.064 M4
Grid 4	Grid 5	Grid 6
0.070 M4	0.070 M4	0.063 M4
Grid 7	Grid 8	Grid 9
0.075 M4	0.070 M4	0.055 M4

**Cursor:**  
 Total = 0.075 A/m  
 H Category: M4  
 Location: 24, 22.5, 365.6 mm



0 dB = 0.075A/m