

APPENDIX A. HAC TEST PLOTS

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /1013

Test Date Dec.18, 2009

DUT: Coach; Type: Folder; 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/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):

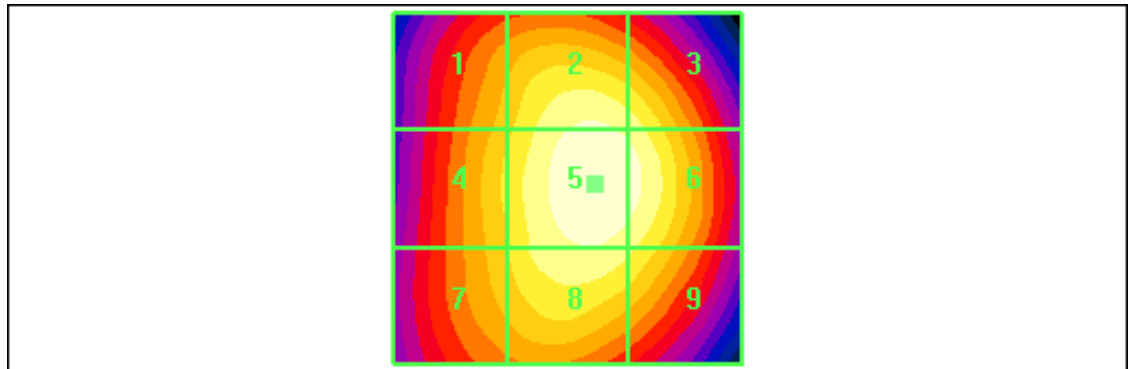
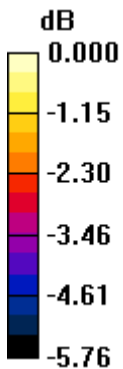
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 76.7 V/m
 Probe Modulation Factor = 0.978
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 114.4 V/m; Power Drift = -0.027 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
66.5 M4	74.2 M4	72.5 M4
Grid 4	Grid 5	Grid 6
68.2 M4	76.7 M4	75.2 M4
Grid 7	Grid 8	Grid 9
67.3 M4	73.3 M4	71.2 M4

Cursor:

Total = 76.7 V/m
 E Category: M4
 Location: -4, -0.5, 369.9 mm



0 dB = 76.7V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /384

Test Date Dec.18, 2009

DUT: Coach; Type: Folder; 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/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):

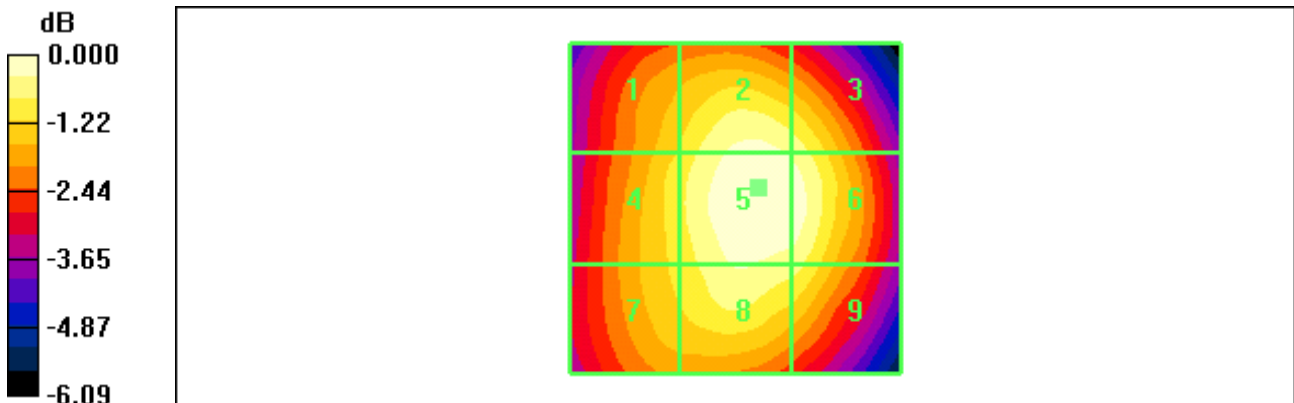
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 93.0 V/m
 Probe Modulation Factor = 0.978
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 141.1 V/m; Power Drift = -0.009 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
81.4 M4	90.4 M4	87.8 M4
Grid 4	Grid 5	Grid 6
83.6 M4	93.0 M4	91.4 M4
Grid 7	Grid 8	Grid 9
82.3 M4	89.1 M4	86.4 M4

Cursor:

Total = 93.0 V/m
 E Category: M4
 Location: -3.5, -3, 369.9 mm



0 dB = 93.0V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /777

Test Date Dec.18, 2009

DUT: Coach; Type: Folder; 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/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):

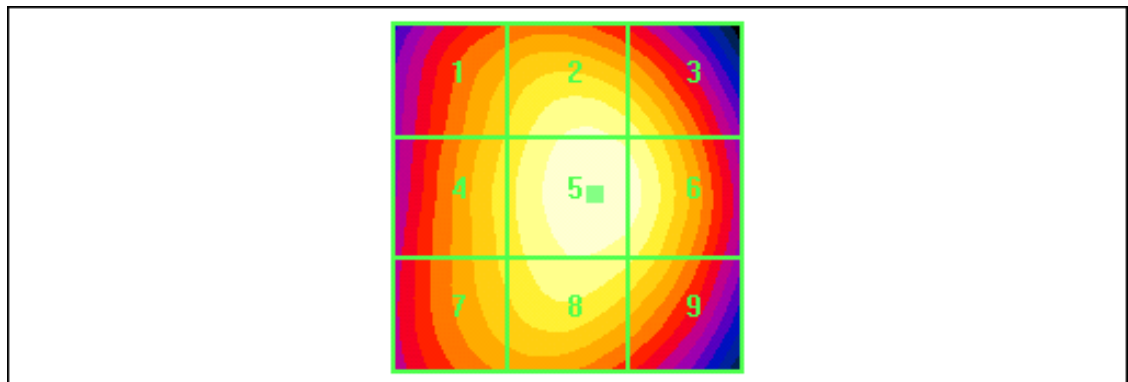
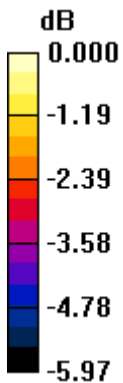
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 86.4 V/m
 Probe Modulation Factor = 0.978
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 129.4 V/m; Power Drift = 0.006 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
76.0 M4	83.6 M4	81.4 M4
Grid 4	Grid 5	Grid 6
77.9 M4	86.4 M4	84.7 M4
Grid 7	Grid 8	Grid 9
76.8 M4	82.6 M4	80.0 M4

Cursor:

Total = 86.4 V/m
 E Category: M4
 Location: -4, -0.5, 369.9 mm



0 dB = 86.4V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /25

Test Date Dec.18, 2009

DUT: Coach; Type: Folder; 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/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):

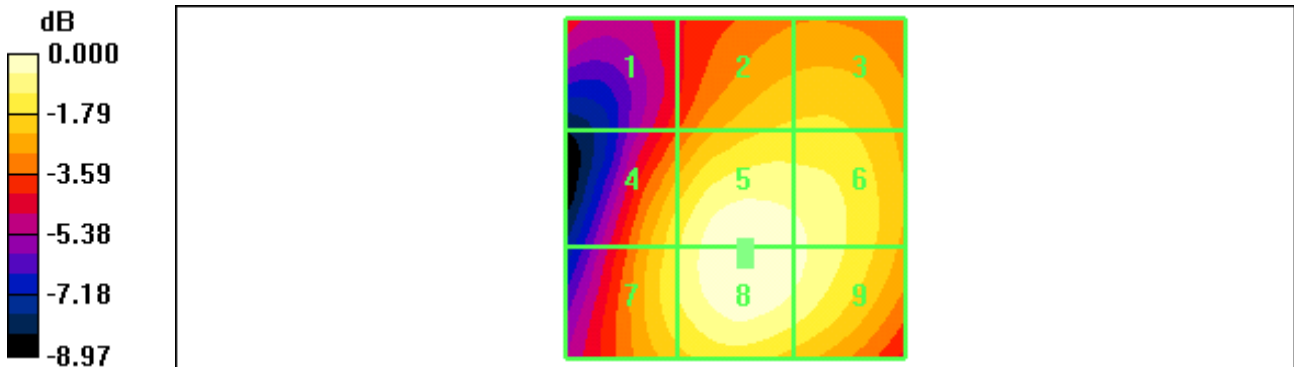
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 27.4 V/m
 Probe Modulation Factor = 0.967
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 41.2 V/m; Power Drift = -0.060 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
18.1 M4	22.7 M4	22.7 M4
Grid 4	Grid 5	Grid 6
23.7 M4	27.3 M4	26.1 M4
Grid 7	Grid 8	Grid 9
24.0 M4	27.4 M4	26.1 M4

Cursor:

Total = 27.4 V/m
 E Category: M4
 Location: -1.5, 10.5, 369.9 mm



0 dB = 27.4V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /600

Test Date Dec.18, 2009

DUT: Coach; Type: Folder; 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/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):

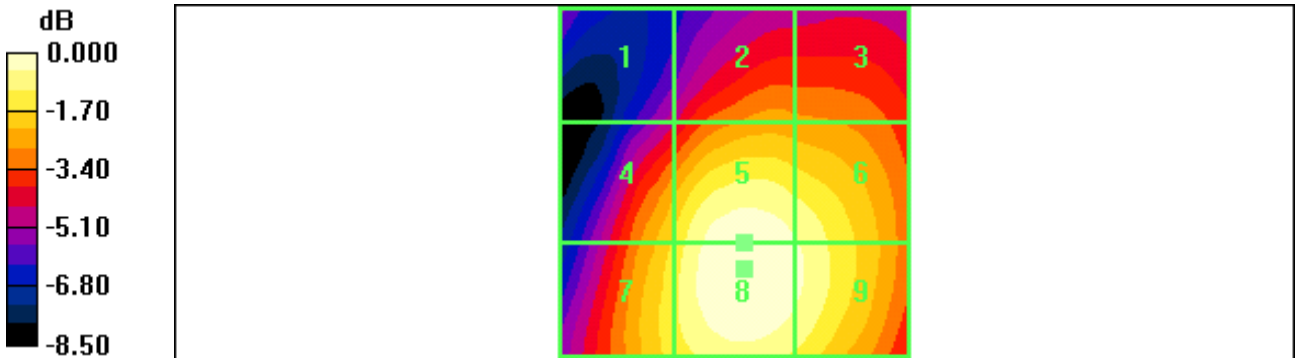
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 33.1 V/m
 Probe Modulation Factor = 0.967
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 49.0 V/m; Power Drift = -0.031 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
19.6 M4	24.8 M4	24.5 M4
Grid 4	Grid 5	Grid 6
27.7 M4	32.7 M4	31.2 M4
Grid 7	Grid 8	Grid 9
28.8 M4	33.1 M4	31.6 M4

Cursor:

Total = 33.1 V/m
 E Category: M4
 Location: -1.5, 12.5, 369.9 mm



0 dB = 33.1V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /1175

Test Date Dec.18, 2009

DUT: Coach; Type: Folder; 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/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):

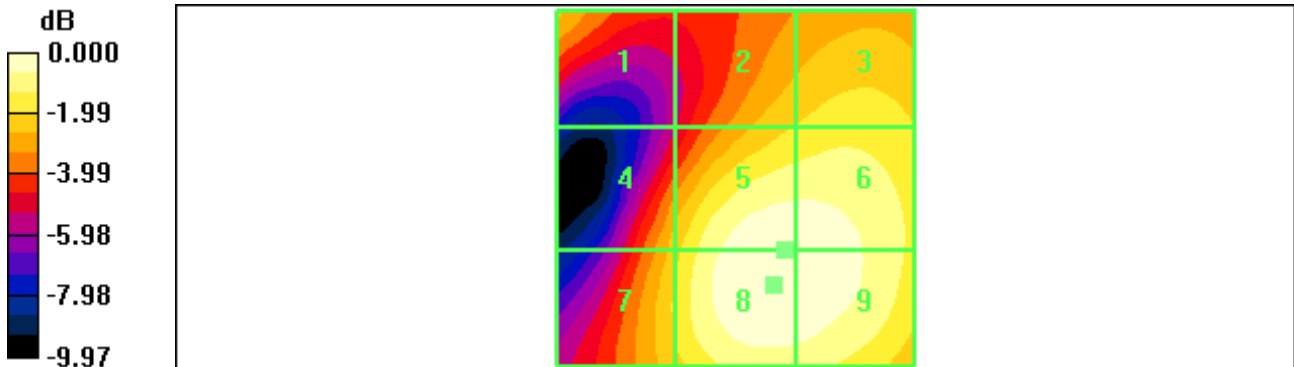
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 27.8 V/m
 Probe Modulation Factor = 0.967
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 38.1 V/m; Power Drift = 0.015 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
21.1 M4	22.3 M4	23.3 M4
Grid 4	Grid 5	Grid 6
21.3 M4	27.4 M4	27.4 M4
Grid 7	Grid 8	Grid 9
22.4 M4	27.8 M4	27.6 M4

Cursor:

Total = 27.8 V/m
 E Category: M4
 Location: -5.5, 13.5, 369.9 mm



0 dB = 27.8V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /1013

Test Date Dec.18, 2009

DUT: Coach; Type: Folder; 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/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):

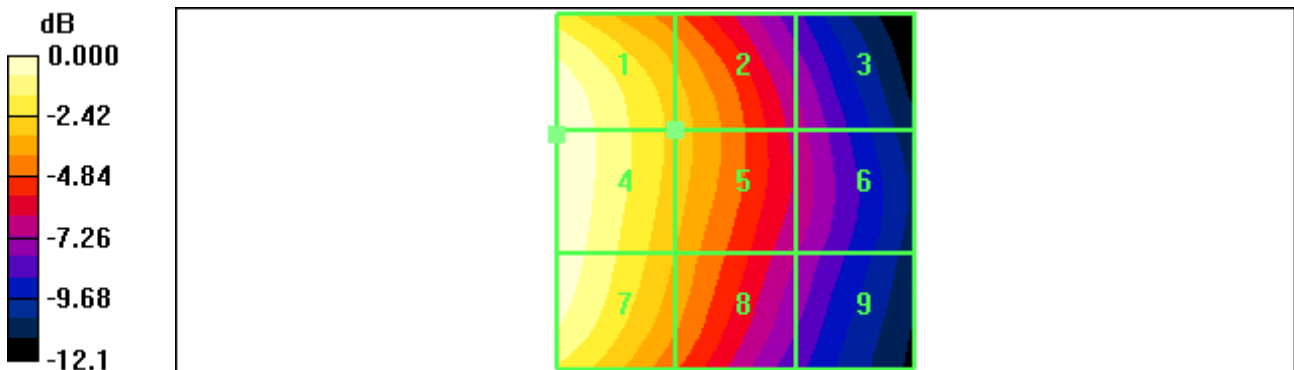
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.140 A/m
 Probe Modulation Factor = 0.869
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.099 A/m; Power Drift = -0.010 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.140 M4	0.103 M4	0.064 M4
Grid 4	Grid 5	Grid 6
0.140 M4	0.103 M4	0.066 M4
Grid 7	Grid 8	Grid 9
0.137 M4	0.097 M4	0.061 M4

Cursor:

Total = 0.140 A/m
 H Category: M4
 Location: 25, -8, 369.4 mm



0 dB = 0.140A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /384

Test Date Dec.18, 2009

DUT: Coach; Type: Folder; 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/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

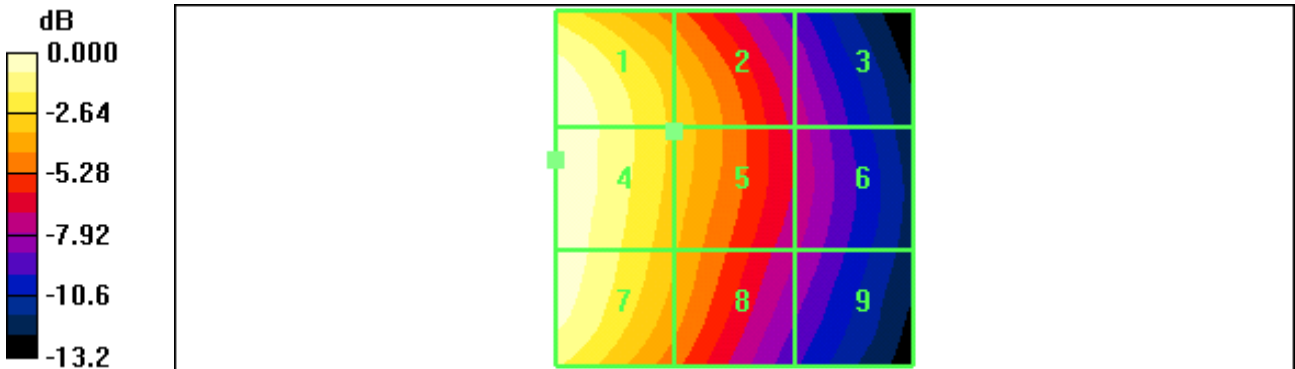
- DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

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 = 0.167 A/m
 Probe Modulation Factor = 0.869
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.114 A/m; Power Drift = -0.018 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.167 M4	0.121 M4	0.072 M4
Grid 4	Grid 5	Grid 6
0.167 M4	0.121 M4	0.074 M4
Grid 7	Grid 8	Grid 9
0.164 M4	0.114 M4	0.069 M4

Cursor:
 Total = 0.167 A/m
 H Category: M4
 Location: 25, -4, 369.4 mm



0 dB = 0.167A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /777

Test Date Dec.18, 2009

DUT: Coach; Type: Folder; 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/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):

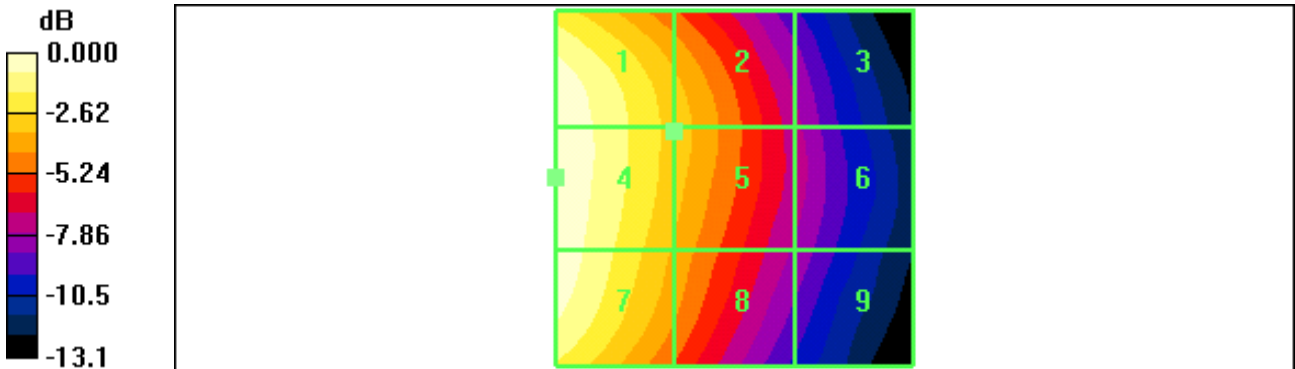
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.154 A/m
 Probe Modulation Factor = 0.869
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.104 A/m; Power Drift = 0.083 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.153 M4	0.109 M4	0.065 M4
Grid 4	Grid 5	Grid 6
0.154 M4	0.109 M4	0.066 M4
Grid 7	Grid 8	Grid 9
0.150 M4	0.102 M4	0.061 M4

Cursor:

Total = 0.154 A/m
 H Category: M4
 Location: 25, -1.5, 369.4 mm



0 dB = 0.154A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /25

Test Date Dec.18, 2009

DUT: Coach; Type: Folder; 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/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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 = 0.074 A/m

Probe Modulation Factor = 0.770

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.064 A/m; Power Drift = -0.155 dB

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

Peak H-field in A/m

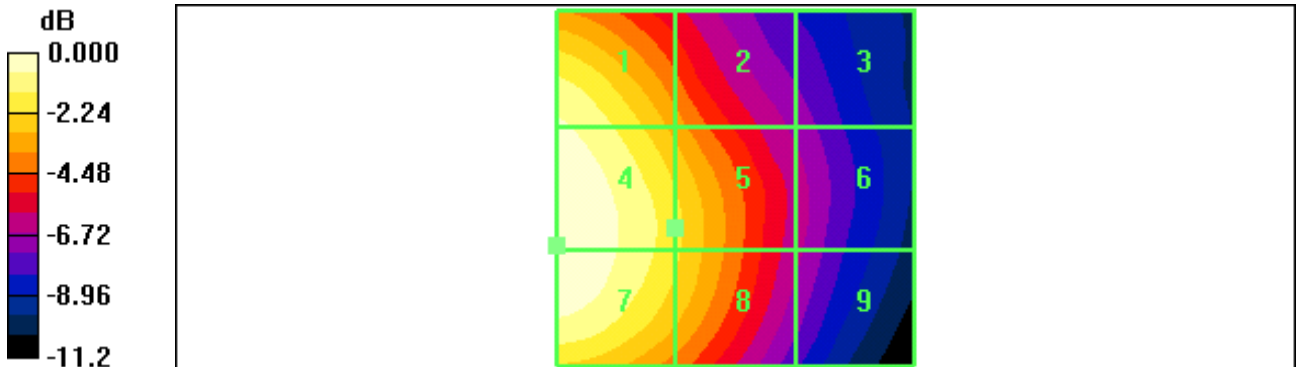
Grid 1	Grid 2	Grid 3
0.069 M4	0.051 M4	0.033 M4
Grid 4	Grid 5	Grid 6
0.074 M4	0.059 M4	0.036 M4
Grid 7	Grid 8	Grid 9
0.074 M4	0.058 M4	0.035 M4

Cursor:

Total = 0.074 A/m

H Category: M4

Location: 25, 8, 369.4 mm



0 dB = 0.074A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /600

Test Date Dec.18, 2009

DUT: Coach; Type: Folder; 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/m³

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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 = 0.086 A/m

Probe Modulation Factor = 0.770

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.081 A/m; Power Drift = -0.184 dB

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

Peak H-field in A/m

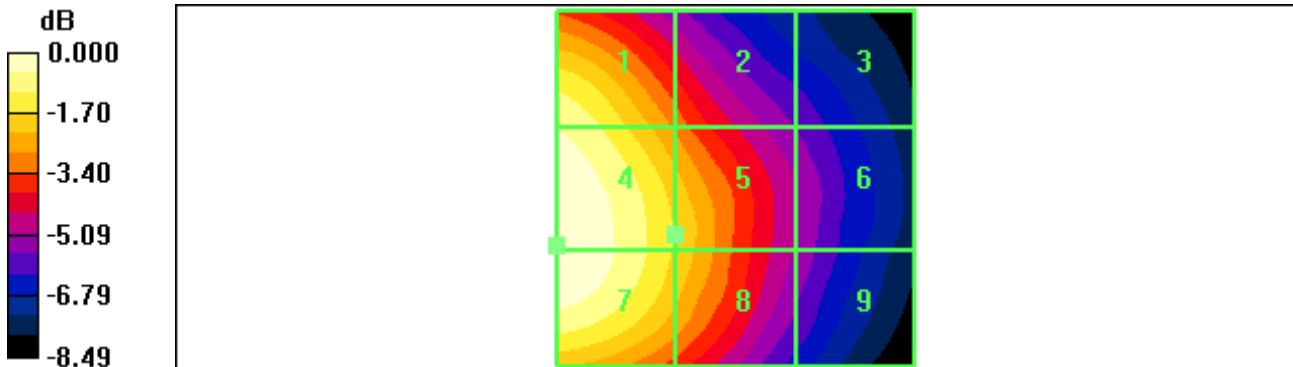
Grid 1	Grid 2	Grid 3
0.080 M4	0.061 M4	0.045 M4
Grid 4	Grid 5	Grid 6
0.086 M4	0.070 M4	0.048 M4
Grid 7	Grid 8	Grid 9
0.086 M4	0.070 M4	0.047 M4

Cursor:

Total = 0.086 A/m

H Category: M4

Location: 25, 8, 369.4 mm



0 dB = 0.086A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.6 °C /1175

Test Date Dec.18, 2009

DUT: Coach; Type: Folder; 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/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2009-09-18
- 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):

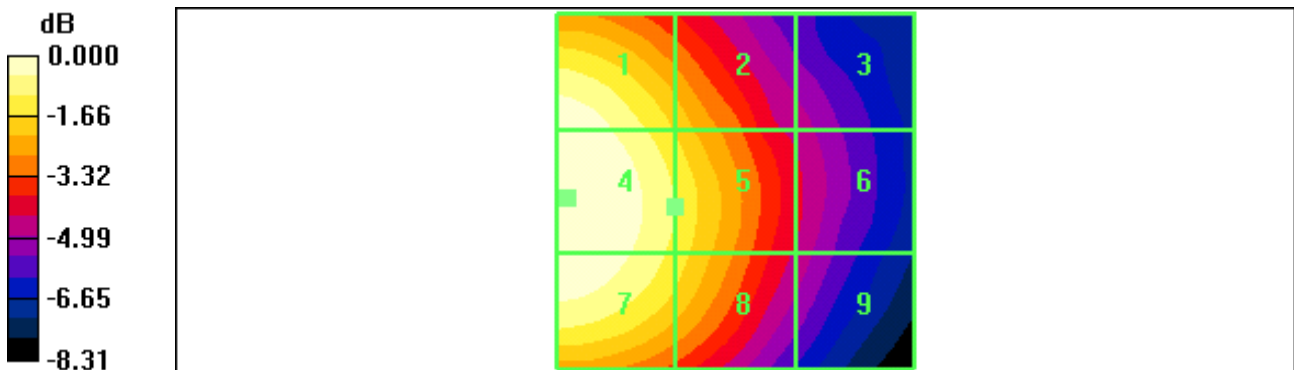
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.074 A/m
 Probe Modulation Factor = 0.770
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.076 A/m; Power Drift = 0.055 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.073 M4	0.061 M4	0.043 M4
Grid 4	Grid 5	Grid 6
0.074 M4	0.065 M4	0.045 M4
Grid 7	Grid 8	Grid 9
0.073 M4	0.064 M4	0.044 M4

Cursor:

Total = 0.074 A/m
 H Category: M4
 Location: 23.5, 1, 369.4 mm



0 dB = 0.074A/m