

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.4 °C

Test Date Oct.20, 2009

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial:1024

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

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

Phantom section: E Dipole 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 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 156.7 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 122.8 V/m; Power Drift = -0.036 dB

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

Peak E-field in V/m

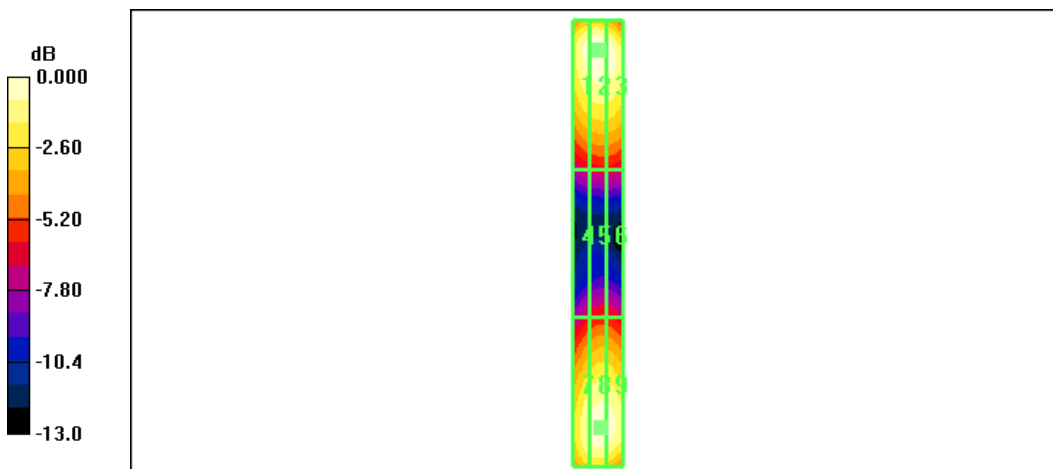
Grid 1	Grid 2	Grid 3
151.8 M4	156.7 M4	153.4 M4
Grid 4	Grid 5	Grid 6
76.5 M4	81.3 M4	80.7 M4
Grid 7	Grid 8	Grid 9
143.2 M4	151.2 M4	150.1 M4

Cursor:

Total = 156.7 V/m

E Category: M4

Location: 0, -78, 365.8 mm



0 dB = 156.7V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.4 °C

Test Date Oct.20, 2009

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial:1019

Communication System: CW; 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 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 139.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 74.1 V/m; Power Drift = -0.034 dB

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

Peak E-field in V/m

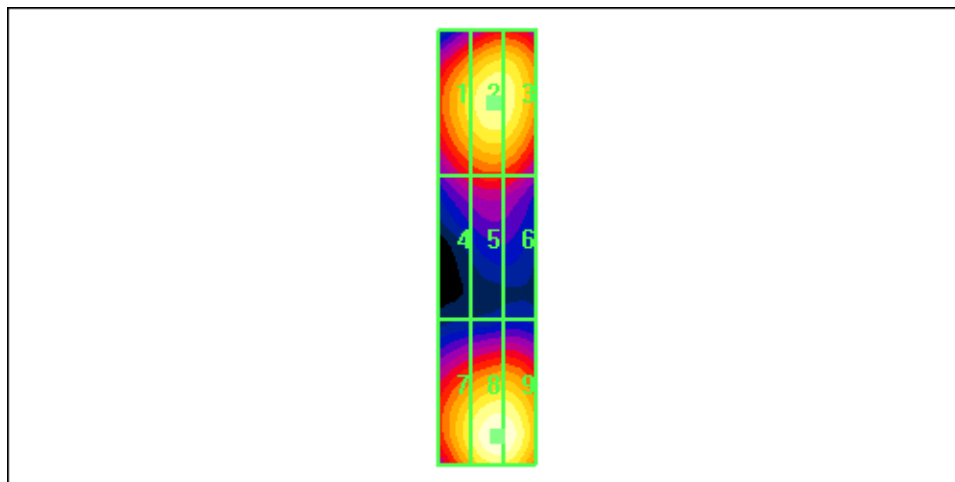
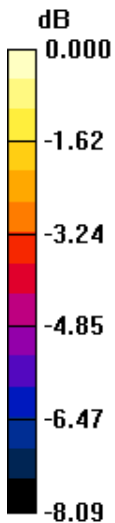
Grid 1 120.0 M2	Grid 2 131.2 M2	Grid 3 129.9 M2
Grid 4 89.1 M3	Grid 5 94.5 M3	Grid 6 92.9 M3
Grid 7 123.3 M2	Grid 8 139.2 M2	Grid 9 138.5 M2

Cursor:

Total = 139.2 V/m

E Category: M2

Location: -2, 39, 364.8 mm



0 dB = 139.2V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.4 °C

Test Date Oct.20, 2009

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial:1024

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

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

Phantom section: H Dipole 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 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.462 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.579 A/m; Power Drift = -0.047 dB

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

Peak H-field in A/m

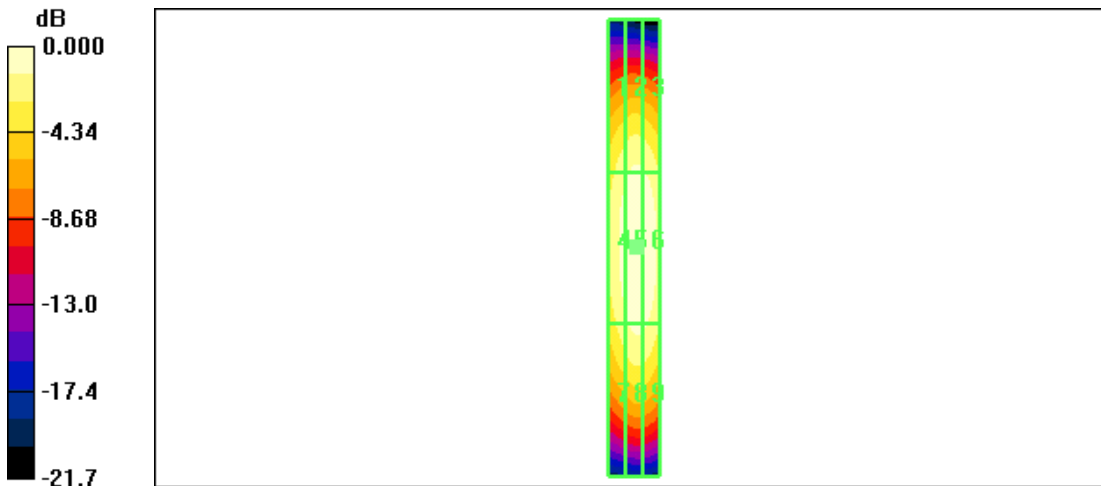
Grid 1	Grid 2	Grid 3
0.375 M4	0.404 M4	0.398 M4
Grid 4	Grid 5	Grid 6
0.424 M4	0.462 M4	0.454 M4
Grid 7	Grid 8	Grid 9
0.373 M4	0.409 M4	0.403 M4

Cursor:

Total = 0.462 A/m

H Category: M4

Location: -1.5, -0.5, 366.6 mm



0 dB = 0.462A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.4 °C

Test Date Oct.20, 2009

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial:1019

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

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

Phantom section: H Dipole 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 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.472 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.577 A/m; Power Drift = -0.047 dB

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

Peak H-field in A/m

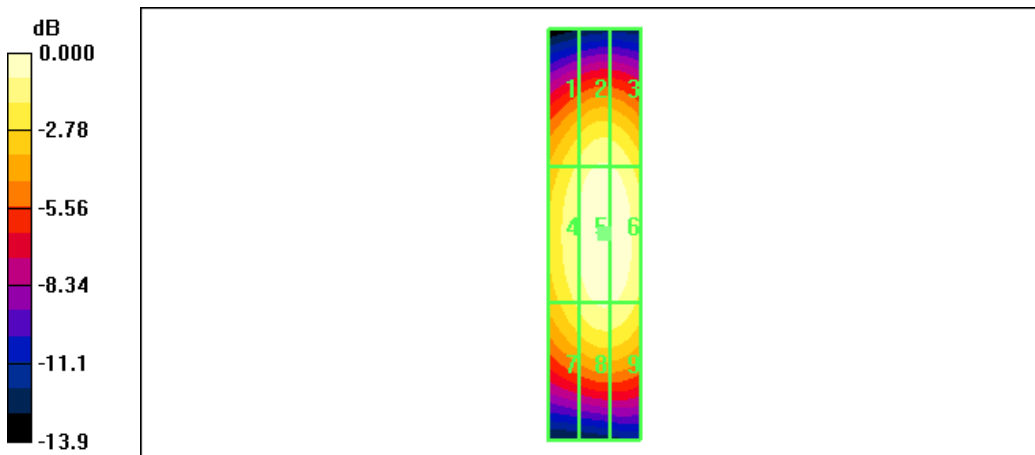
Grid 1	Grid 2	Grid 3
0.389 M2	0.430 M2	0.426 M2
Grid 4	Grid 5	Grid 6
0.428 M2	0.472 M2	0.468 M2
Grid 7	Grid 8	Grid 9
0.390 M2	0.430 M2	0.428 M2

Cursor:

Total = 0.472 A/m

H Category: M2

Location: -2, 0, 366.6 mm



0 dB = 0.472A/m