

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.5 °C

Test Date May 12, 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: 2008-05-19
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn466; Calibrated: 2008-07-17
- 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 = 168.0 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 129.9 V/m; Power Drift = -0.013 dB

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

Peak E-field in V/m

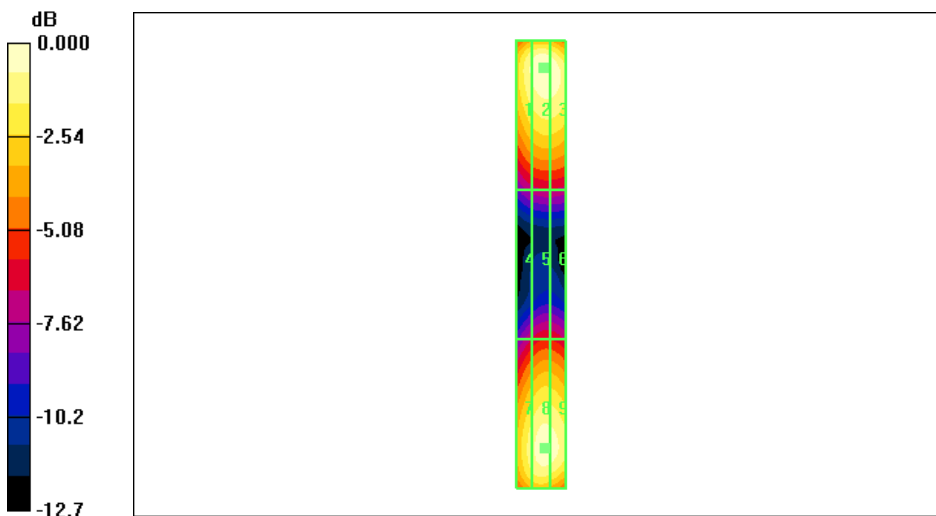
Grid 1	Grid 2	Grid 3
157.6 M4	168.0 M4	165.6 M4
Grid 4	Grid 5	Grid 6
78.0 M4	85.1 M4	84.7 M4
Grid 7	Grid 8	Grid 9
148.9 M4	162.0 M4	160.9 M4

Cursor:

Total = 168.0 V/m

E Category: M4

Location: -1, -79, 365.8 mm



0 dB = 168.0V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.5 °C

Test Date May 12, 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 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: 2008-05-19

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn466; Calibrated: 2008-07-17

- 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 = 141.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 167.6 V/m; Power Drift = -0.010 dB

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

Peak E-field in V/m

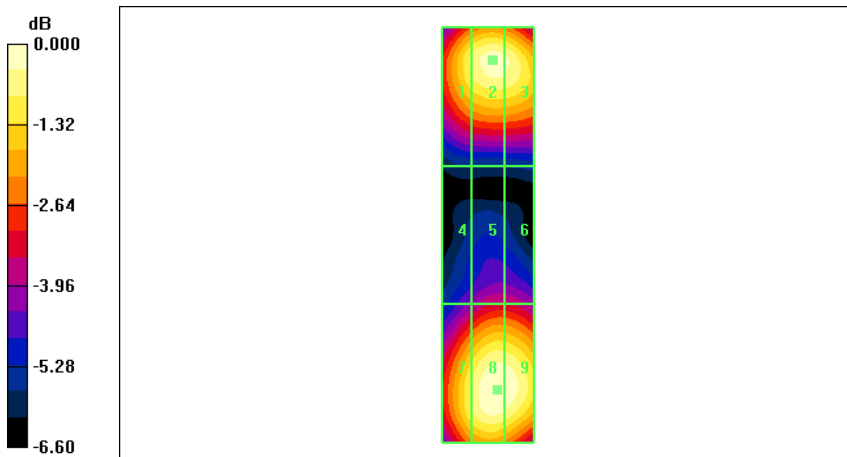
Grid 1 129.8 M2	Grid 2 138.2 M2	Grid 3 136.5 M2
Grid 4 87.9 M3	Grid 5 95.5 M3	Grid 6 95.4 M3
Grid 7 129.6 M2	Grid 8 141.3 M2	Grid 9 140.4 M2

Cursor:

Total = 141.3 V/m

E Category: M2

Location: -2, 33.5, 365.8 mm



0 dB = 141.3V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.5 °C

Test Date May 12, 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: 2008-05-19

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn466; Calibrated: 2008-07-17

- 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 = 0.450 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.562 A/m; Power Drift = -0.012 dB

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

Peak H-field in A/m

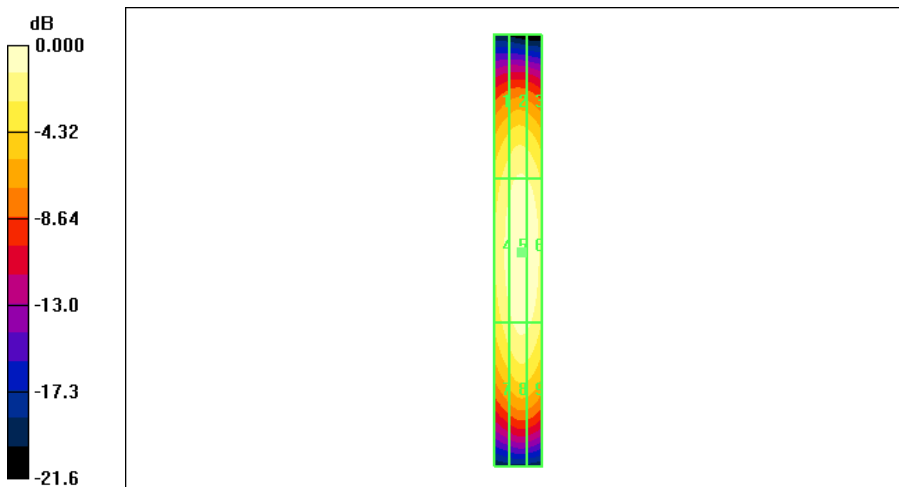
Grid 1	Grid 2	Grid 3
0.360 M4	0.390 M4	0.384 M4
Grid 4	Grid 5	Grid 6
0.411 M4	0.450 M4	0.443 M4
Grid 7	Grid 8	Grid 9
0.365 M4	0.403 M4	0.396 M4

Cursor:

Total = 0.450 A/m

H Category: M4

Location: -1.5, 1, 366.6 mm



0 dB = 0.450A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.5 °C

Test Date May 12, 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: 2008-05-19

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn466; Calibrated: 2008-07-17

- 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 = 0.476 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.581 A/m; Power Drift = -0.032 dB

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

Peak H-field in A/m

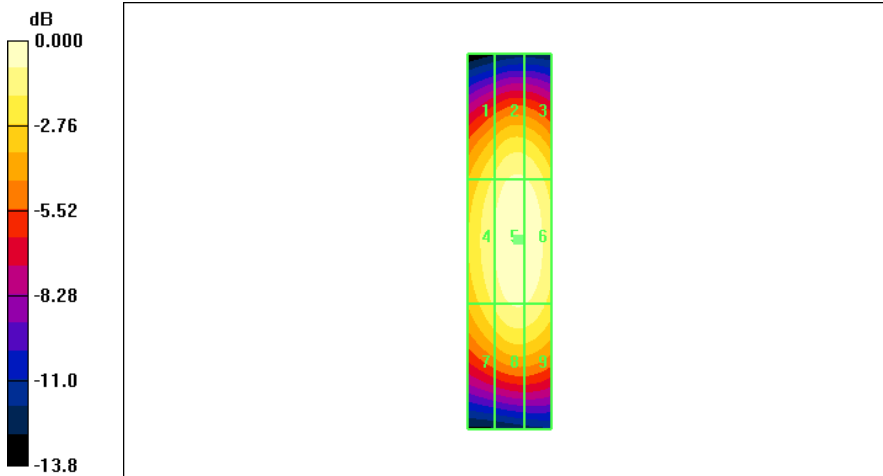
Grid 1	Grid 2	Grid 3
0.394 M2	0.436 M2	0.432 M2
Grid 4	Grid 5	Grid 6
0.432 M2	0.476 M2	0.472 M2
Grid 7	Grid 8	Grid 9
0.392 M2	0.433 M2	0.430 M2

Cursor:

Total = 0.476 A/m

H Category: M2

Location: -2, -0.5, 366.6 mm



0 dB = 0.476A/m