

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
Ambient Temperature 21.7 °C
Test Date July 23, 2008

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: DAE4 Sn447; Calibrated: 2007-09-13
- 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 = 165.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 127.0 V/m; Power Drift = -0.018 dB

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

Peak E-field in V/m

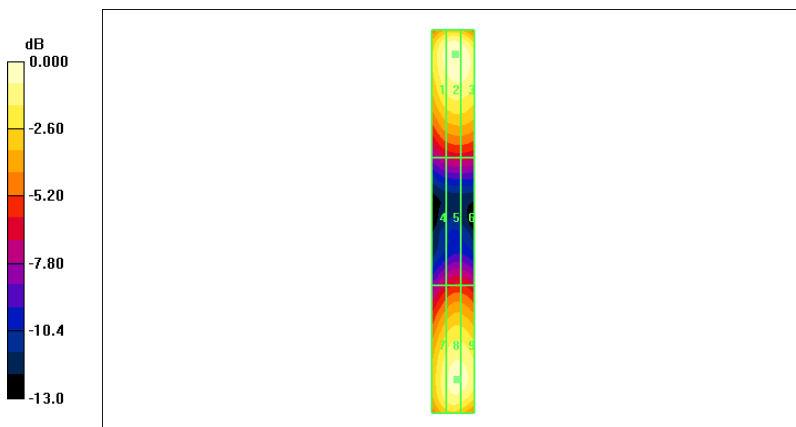
Grid 1	Grid 2	Grid 3
156.5 M4	165.3 M4	162.9 M4
Grid 4	Grid 5	Grid 6
78.0 M4	84.3 M4	83.8 M4
Grid 7	Grid 8	Grid 9
146.8 M4	157.7 M4	156.6 M4

Cursor:

Total = 165.3 V/m

E Category: M4

Location: -1, -78.5, 365.8 mm



0 dB = 165.3V/m

Test Laboratory: HCT CO., LTD.
Ambient Temperature 21.7 °C
Test Date July 23, 2008

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: 2008-05-19
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2007-09-13
- 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 = 143.9 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 80.0 V/m; Power Drift = -0.034 dB

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

Peak E-field in V/m

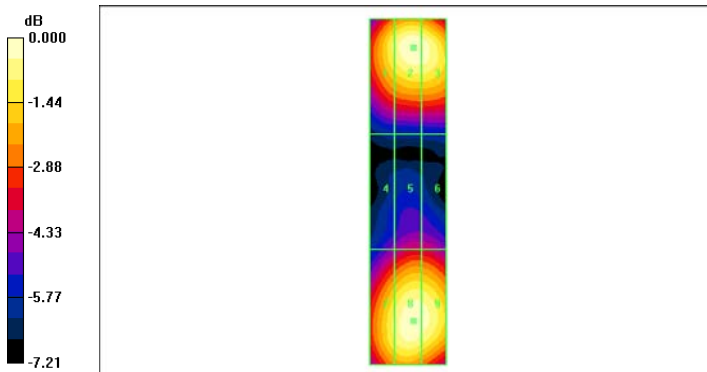
Grid 1	Grid 2	Grid 3
132.0 M2	143.9 M2	142.0 M2
Grid 4	Grid 5	Grid 6
86.1 M3	93.9 M3	93.7 M3
Grid 7	Grid 8	Grid 9
131.5 M2	142.6 M2	140.8 M2

Cursor:

Total = 143.9 V/m

E Category: M2

Location: -1.5, -37.5, 364.8 mm



0 dB = 143.9V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.7 °C

Test Date July 23, 2008

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: DAE4 Sn447; Calibrated: 2007-09-13
- 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 = 0.454 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.558 A/m; Power Drift = -0.034 dB

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

Peak H-field in A/m

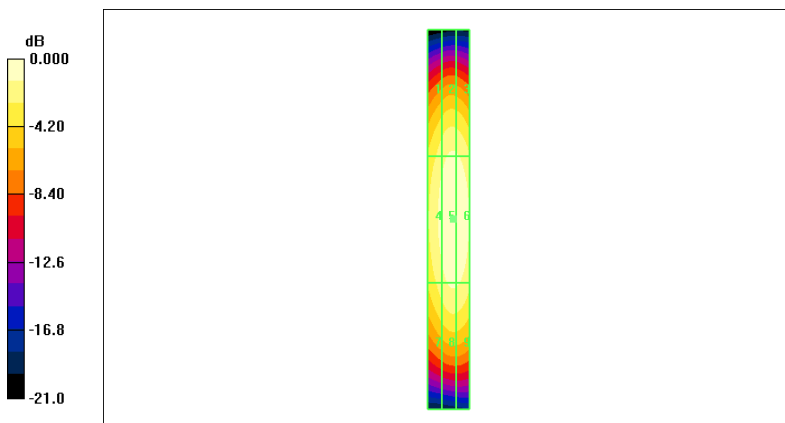
Grid 1	Grid 2	Grid 3
0.360 M4	0.398 M4	0.394 M4
Grid 4	Grid 5	Grid 6
0.409 M4	0.454 M4	0.449 M4
Grid 7	Grid 8	Grid 9
0.359 M4	0.397 M4	0.394 M4

Cursor:

Total = 0.454 A/m

H Category: M4

Location: -2, 0, 366.6 mm



0 dB = 0.454A/m

Test Laboratory: HCT CO., LTD.
Ambient Temperature 21.7 °C
Test Date July 23, 2008

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: DAE4 Sn447; Calibrated: 2007-09-13
- 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 = 0.471 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 0.573 A/m; Power Drift = -0.008 dB

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

Peak H-field in A/m

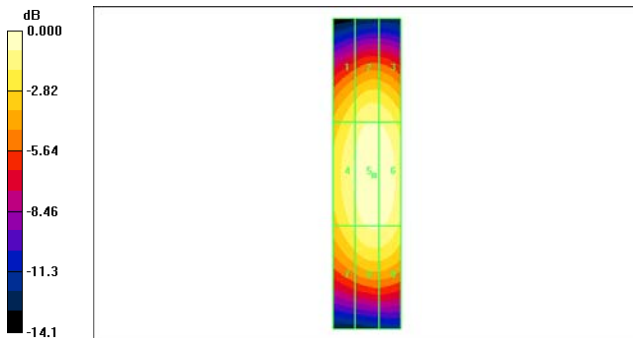
Grid 1	Grid 2	Grid 3
0.387 M2	0.426 M2	0.422 M2
Grid 4	Grid 5	Grid 6
0.430 M2	0.471 M2	0.468 M2
Grid 7	Grid 8	Grid 9
0.393 M2	0.431 M2	0.429 M2

Cursor:

Total = 0.471 A/m

H Category: M2

Location: -2, 0.5, 366.6 mm



0 dB = 0.471A/m