

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.4 °C
 Test Date: Apr.25, 2011

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 184

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- 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 = 130.8 V/m; Power Drift = 0.029 dB

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

Peak E-field in V/m

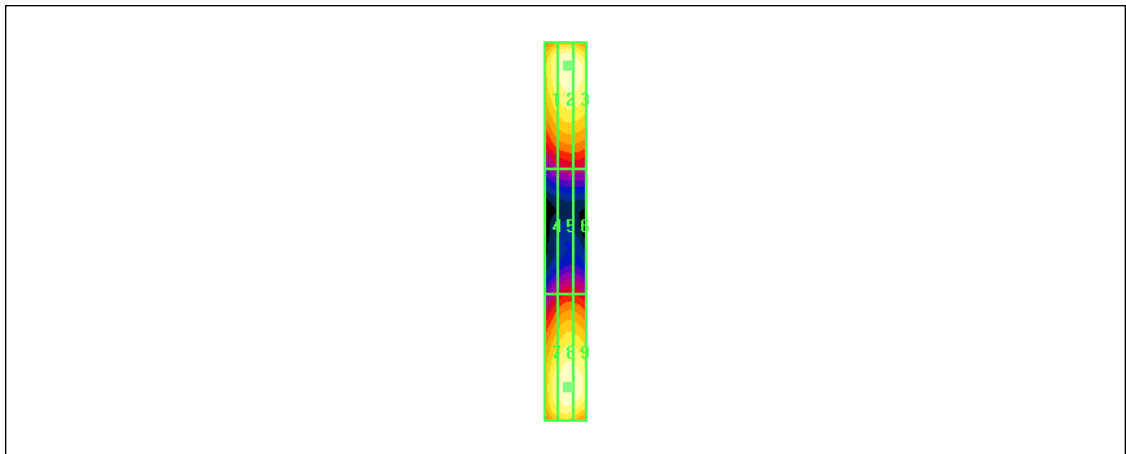
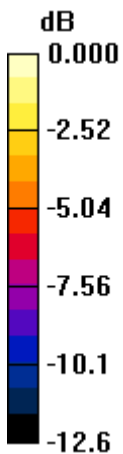
Grid 1	Grid 2	Grid 3
155.0 M4	165.3 M4	163.4 M4
Grid 4	Grid 5	Grid 6
78.3 M4	85.8 M4	85.3 M4
Grid 7	Grid 8	Grid 9
150.8 M4	164.6 M4	163.3 M4

Cursor:

Total = 165.3 V/m

E Category: M4

Location: -1, -79, 365.8 mm



0 dB = 165.3V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.4 °C
 Test Date: Apr.25, 2011

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 184

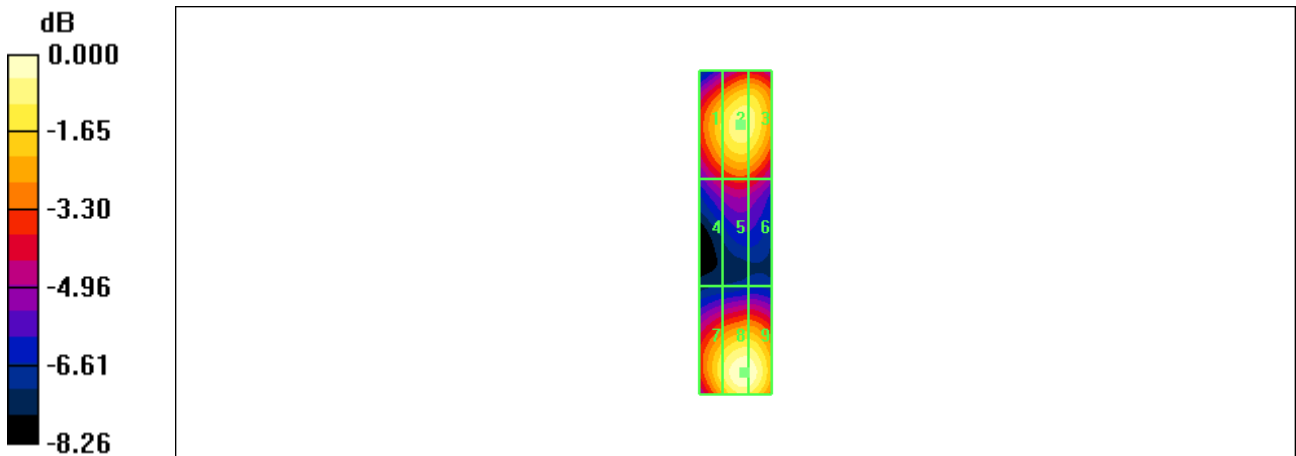
DASY4 Configuration:
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 148.4 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 78.2 V/m; Power Drift = -0.020 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1 125.5 M2	Grid 2 137.3 M2	Grid 3 136.1 M2
Grid 4 93.3 M3	Grid 5 99.4 M3	Grid 6 97.8 M3
Grid 7 131.5 M2	Grid 8 148.4 M2	Grid 9 147.7 M2

Cursor:
 Total = 148.4 V/m
 E Category: M2
 Location: -2.5, 39, 364.8 mm



0 dB = 148.4V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.4 °C
 Test Date: Apr.25, 2011

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 184

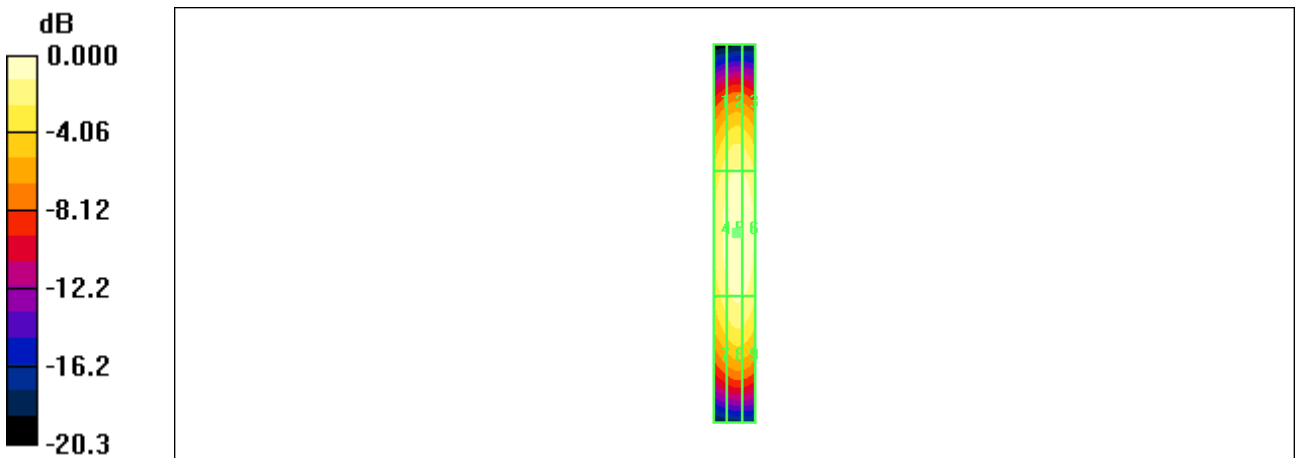
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.485 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.588 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
0.388 M4	0.420 M4	0.414 M4
Grid 4	Grid 5	Grid 6
0.446 M4	0.485 M4	0.479 M4
Grid 7	Grid 8	Grid 9
0.393 M4	0.427 M4	0.422 M4

Cursor:
 Total = 0.485 A/m
 H Category: M4
 Location: -1.5, 0, 366.6 mm



0 dB = 0.485A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.4 °C
 Test Date: Apr.25, 2011

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 184

DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2010-09-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

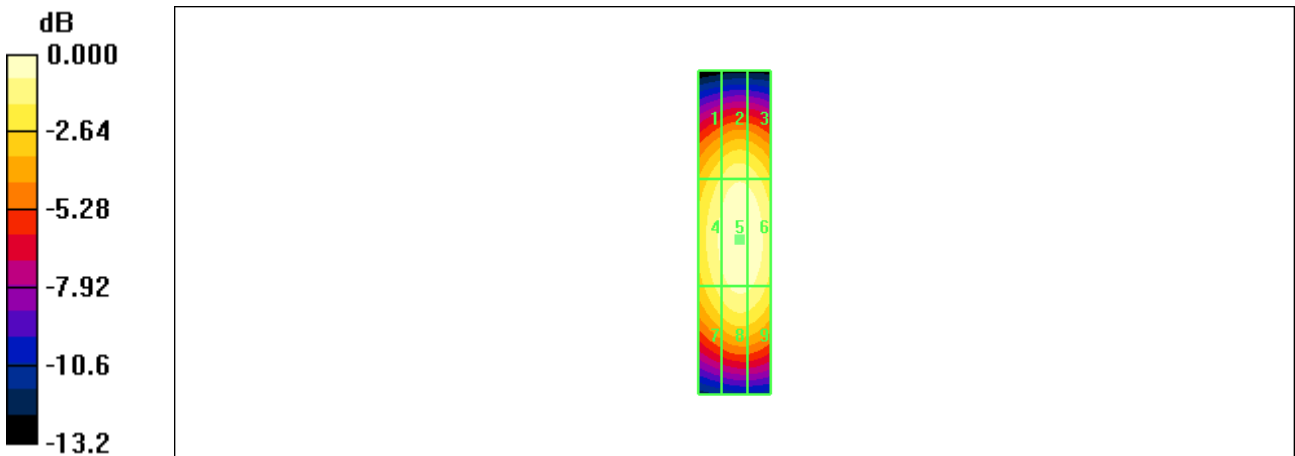
H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.452 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.539 A/m; Power Drift = 0.003 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.374 M2	0.402 M2	0.397 M2
Grid 4	Grid 5	Grid 6
0.421 M2	0.452 M2	0.447 M2
Grid 7	Grid 8	Grid 9
0.390 M2	0.421 M2	0.416 M2

Cursor:
 Total = 0.452 A/m
 H Category: M2
 Location: -1.5, 2, 366.6 mm



0 dB = 0.452A/m