

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
 Ambient Temperature 21.3 °C
 Test Date Feb.15, 2010

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

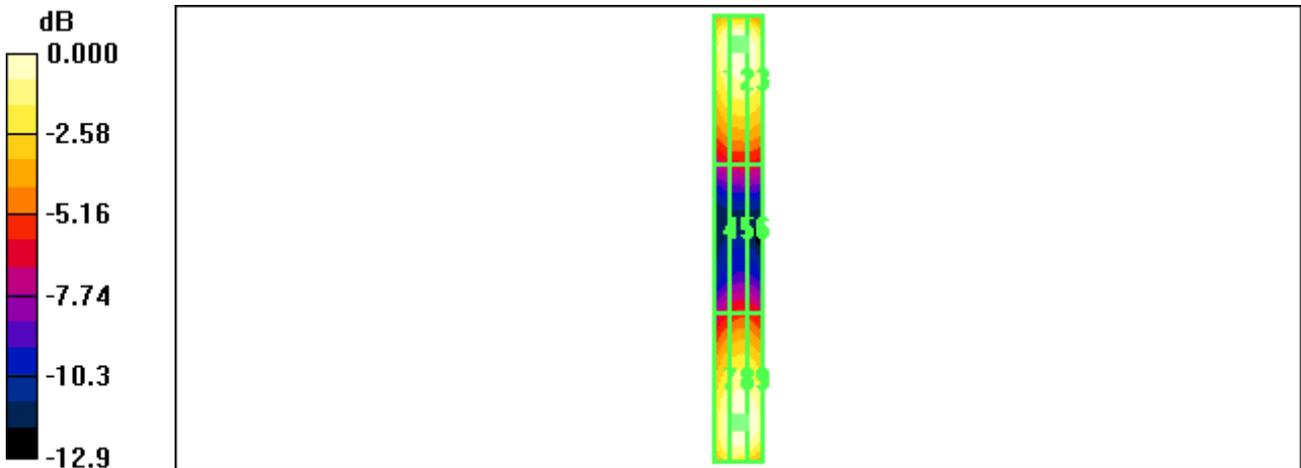
DASY4 Configuration:
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 159.4 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 128.0 V/m; Power Drift = 0.001 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 152.9 M4	Grid 2 159.4 M4	Grid 3 156.5 M4
Grid 4 79.7 M4	Grid 5 84.4 M4	Grid 6 83.6 M4
Grid 7 151.6 M4	Grid 8 159.2 M4	Grid 9 157.5 M4

Cursor:
 Total = 159.4 V/m
 E Category: M4
 Location: -0.5, -78, 365.8 mm



0 dB = 159.4V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature 21.3 °C

Test Date Feb.15, 2010

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 = 148.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 77.7 V/m; Power Drift = -0.020 dB

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

Peak E-field in V/m

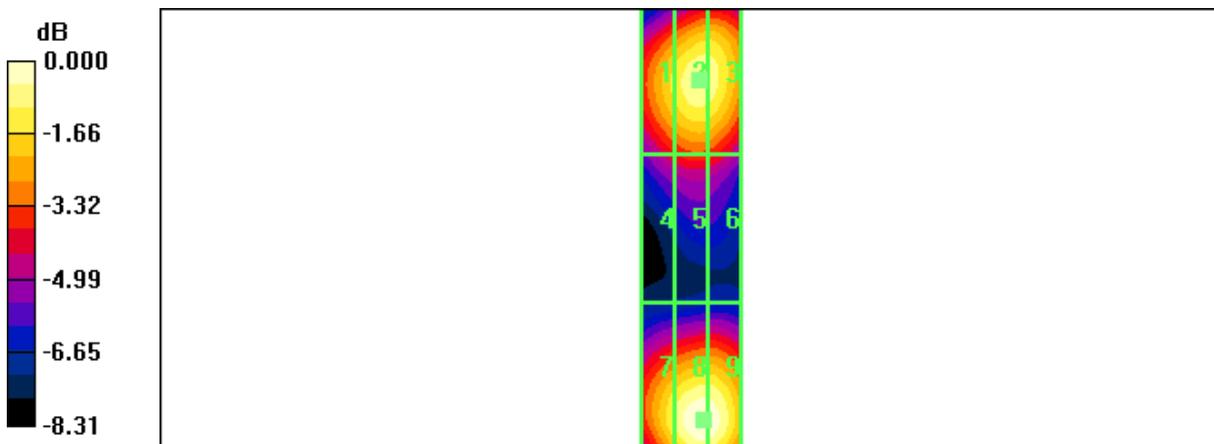
Grid 1 125.5 M2	Grid 2 137.3 M2	Grid 3 136.1 M2
Grid 4 93.2 M3	Grid 5 99.3 M3	Grid 6 97.8 M3
Grid 7 131.4 M2	Grid 8 148.3 M2	Grid 9 147.6 M2

Cursor:

Total = 148.3 V/m

E Category: M2

Location: -2.5, 39, 364.8 mm



0 dB = 148.3V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.3 °C
 Test Date: Feb.15, 2010

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

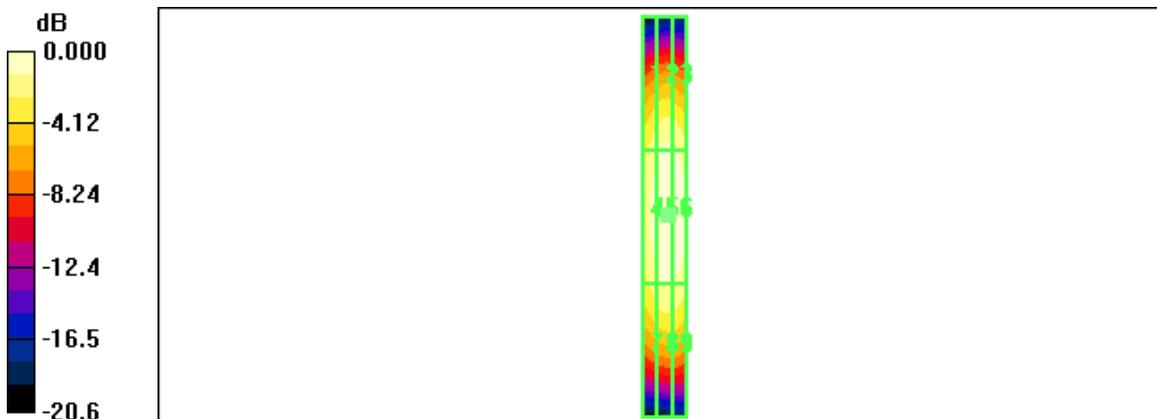
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE4 Sn869; Calibrated: 2009-09-18
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.461 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.574 A/m; Power Drift = 0.002 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.377 M4	0.408 M4	0.403 M4
Grid 4	Grid 5	Grid 6
0.427 M4	0.461 M4	0.457 M4
Grid 7	Grid 8	Grid 9
0.370 M4	0.399 M4	0.395 M4

Cursor:
 Total = 0.461 A/m
 H Category: M4
 Location: -1.5, -1, 366.6 mm



0 dB = 0.461A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.3 °C
 Test Date: Feb.15, 2010

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

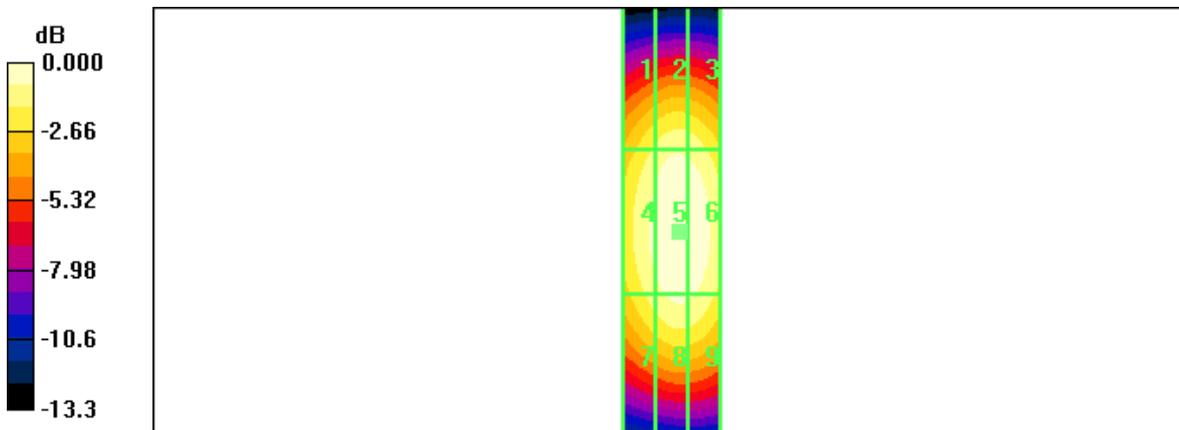
H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.459 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.550 A/m; Power Drift = 0.015 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.380 M2	0.409 M2	0.403 M2
Grid 4	Grid 5	Grid 6
0.428 M2	0.459 M2	0.454 M2
Grid 7	Grid 8	Grid 9
0.396 M2	0.427 M2	0.423 M2

Cursor:

Total = 0.459 A/m
 H Category: M2
 Location: -1.5, 2, 366.6 mm



0 dB = 0.459A/m