

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.5 °C
 Test Date: Mar. 21, 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 = 165.1 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, 354.7 mm

Reference Value = 130.7 V/m; Power Drift = 0.029 dB

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

Peak E-field in V/m

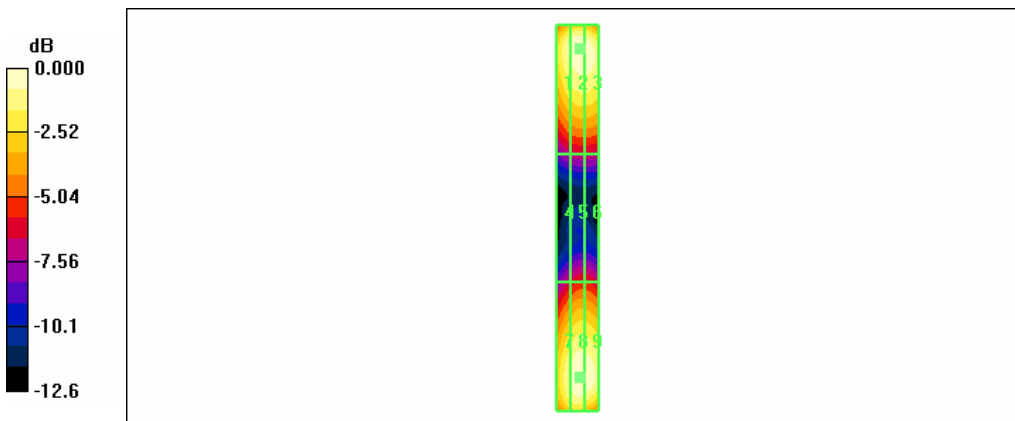
Grid 1	Grid 2	Grid 3
155.2 M4	165.1 M4	163.3 M4
Grid 4	Grid 5	Grid 6
78.4 M4	85.6 M4	85.1 M4
Grid 7	Grid 8	Grid 9
151.1 M4	164.4 M4	163.1 M4

Cursor:

Total = 165.1 V/m

E Category: M4

Location: -1, -79, 365.8 mm



0 dB = 165.1V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.5 °C
 Test Date: Mar. 21, 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

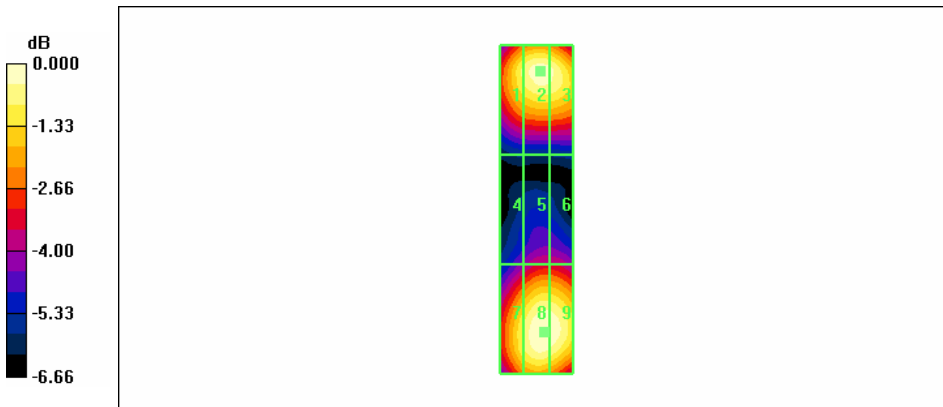
DASY4 Configuration:
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2008-05-19
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn466; Calibrated: 2008-07-17
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 142.2 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 168.5 V/m; Power Drift = -0.013 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1 131.3 M2	Grid 2 139.5 M2	Grid 3 137.7 M2
Grid 4 88.2 M3	Grid 5 96.0 M3	Grid 6 95.9 M3
Grid 7 130.3 M2	Grid 8 142.2 M2	Grid 9 141.4 M2

Cursor:
 Total = 142.2 V/m
 E Category: M2
 Location: -2, 33.5, 365.8 mm



0 dB = 142.2V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.5 °C
 Test Date: Mar. 21, 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

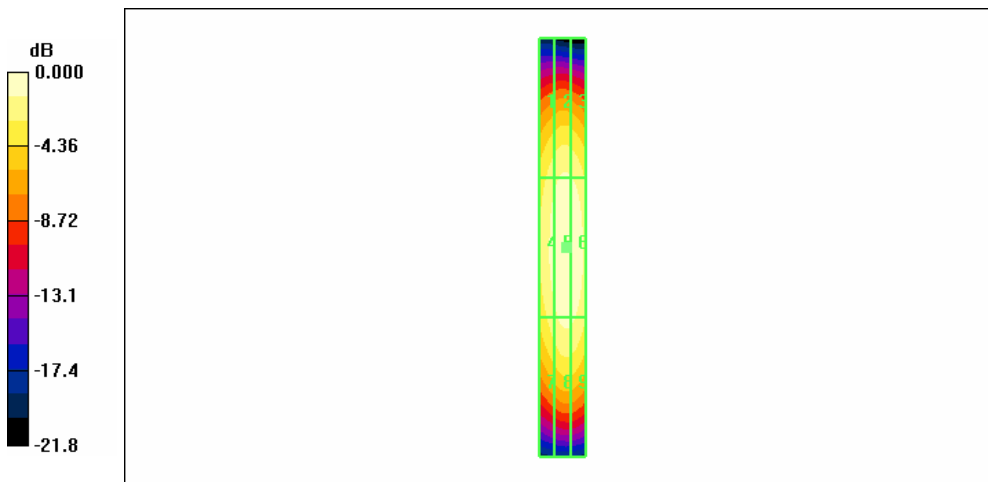
H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.447 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.559 A/m; Power Drift = -0.055 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.359 M4	0.389 M4	0.382 M4
Grid 4	Grid 5	Grid 6
0.408 M4	0.447 M4	0.440 M4
Grid 7	Grid 8	Grid 9
0.360 M4	0.399 M4	0.393 M4

Cursor:

Total = 0.447 A/m
 H Category: M4
 Location: -1.5, 0, 366.6 mm



0 dB = 0.447A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature 21.5 °C
 Test Date Mar. 21, 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

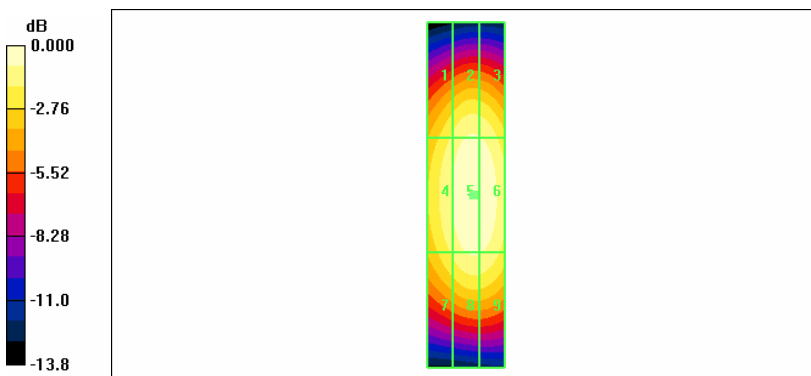
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2008-05-19
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn466; Calibrated: 2008-07-17
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.477 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.583 A/m; Power Drift = -0.054 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.393 M2	0.436 M2	0.431 M2
Grid 4	Grid 5	Grid 6
0.433 M2	0.477 M2	0.473 M2
Grid 7	Grid 8	Grid 9
0.393 M2	0.435 M2	0.432 M2

Cursor:
 Total = 0.477 A/m
 H Category: M2
 Location: -2, 0, 366.6 mm



0 dB = 0.477A/m