ATTACHMENT C – PROBE MODULATION FACTOR

■ Probe Modulation Factor (E-Field 835MHz CW)

Test Laboratory: HCT
Ambient Temperature : 21.9 ℃
Date Tested : October 16, 2006

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1024
Program Name: HAC E Dipole

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Device Section ;Measurement SW: DASY4, V4.7 Build 44

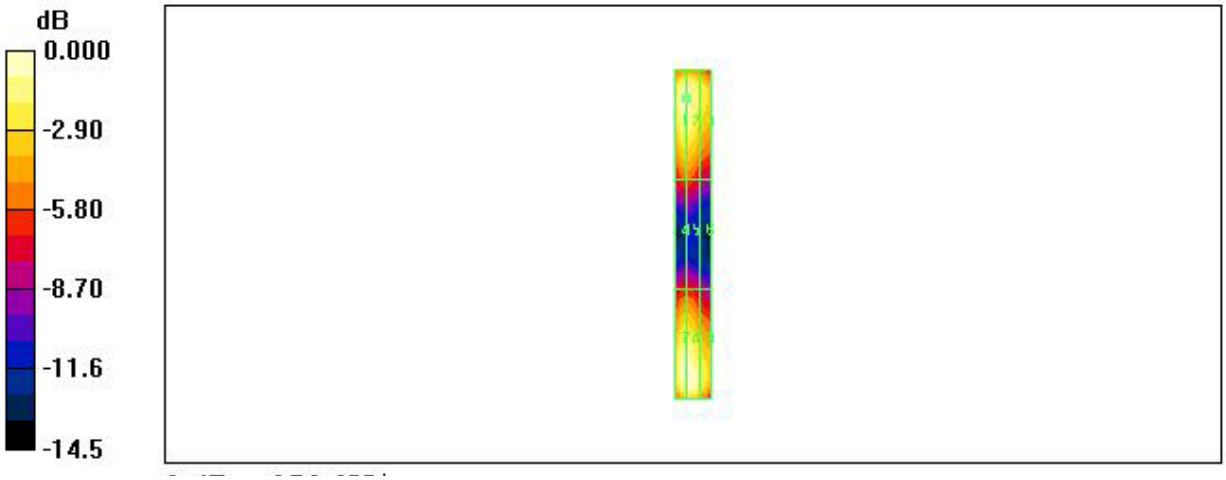
DASY4 Configuration:
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 352.6 V/m
Probe Modulation Factor = 1.00
Reference Value = 94.7 V/m; Power Drift = 0.017 dB
Hearing Aid Near-Field Category: M1 (AWF 0 dB)

Peak E-field in V/m

Grid 1 339.0	Grid 2 338.2	Grid 3 286.6
Grid 4 182.8	Grid 5 182.8	Grid 6 151.6
Grid 7 351.7	Grid 8 352.6	Grid 9 304.5



■ Probe Modulation Factor (E-Field 835MHz AM80)

Test Laboratory: HCT
Ambient Temperature : 21.9 ℃
Date Tested : October 16, 2006

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1024
Program Name: HAC E Dipole

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Device Section ;Measurement SW: DASY4, V4.7 Build 44

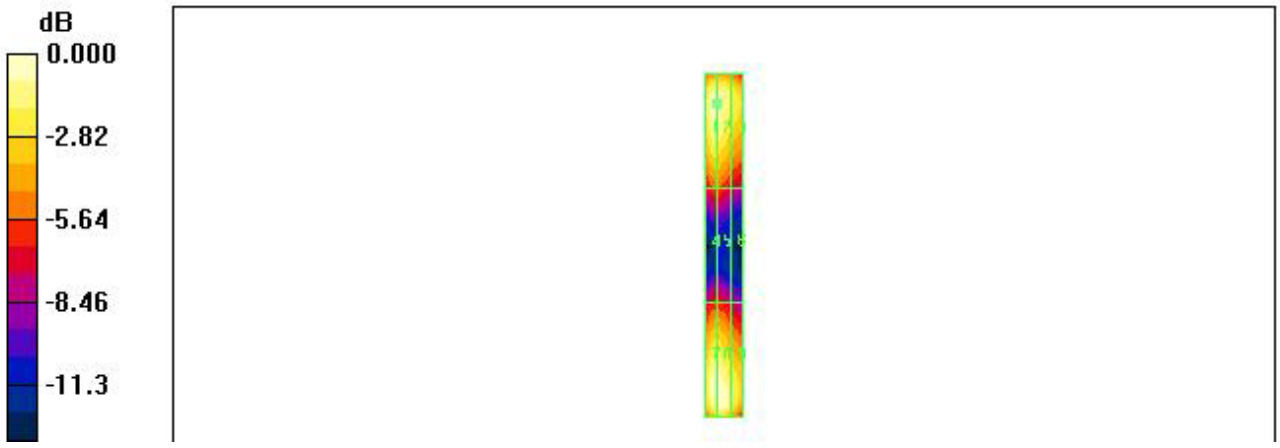
DASY4 Configuration:
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 218.5 V/m
Probe Modulation Factor = 1.00
Reference Value = 61.3 V/m; Power Drift = -0.010 dB
Hearing Aid Near-Field Category: M1 (AWF 0 dB)

Peak E-field in V/m

Grid 1 210.4	Grid 2 209.6	Grid 3 179.5
Grid 4 114.9	Grid 5 114.8	Grid 6 96.3
Grid 7 217.8	Grid 8 218.5	Grid 9 191.0



■ Probe Modulation Factor (E-Field 835MHz CDMA)

Test Laboratory: HCT
Ambient Temperature : 21.9 ℃
Date Tested : October 16, 2006

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1024
Program Name: HAC E Dipole

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Device Section ;Measurement SW: DASY4, V4.7 Build 44

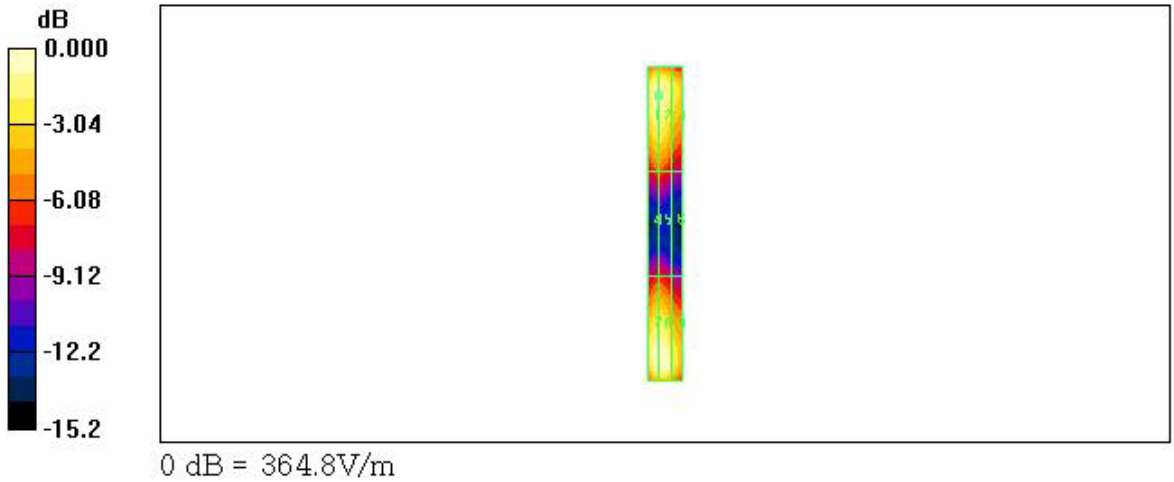
DASY4 Configuration:
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 364.8 V/m
Probe Modulation Factor = 1.00
Reference Value = 91.9 V/m; Power Drift = 0.007 dB
Hearing Aid Near-Field Category: No Category (AWF 0 dB)

Peak E-field in V/m

Grid 1 351.5	Grid 2 351.2	Grid 3 289.4
Grid 4 180.0	Grid 5 180.0	Grid 6 147.8
Grid 7 363.6	Grid 8 364.8	Grid 9 309.5



0 dB = 364.8V/m

■ Probe Modulation Factor (E-Field 1880MHz CW)

Test Laboratory: HCT
Ambient Temperature : 21.9 ℃
Date Tested : October 16, 2006

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1019
Program Name: HAC H Dipole

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Device Section ;Measurement SW: DASY4, V4.7 Build 44

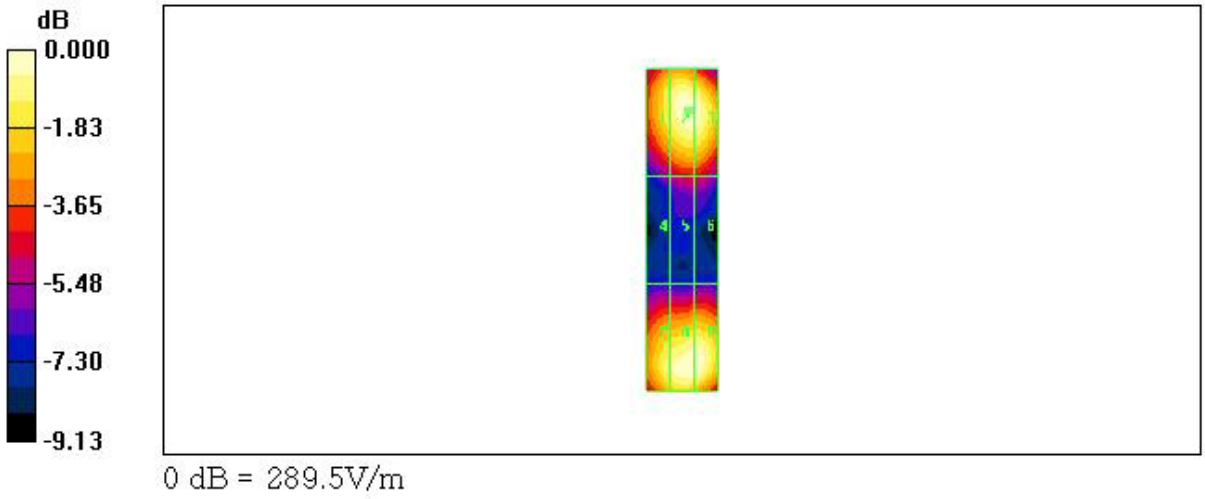
DASY4 Configuration:
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 289.5 V/m
Probe Modulation Factor = 1.00
Reference Value = 125.4 V/m; Power Drift = 0.001 dB
Hearing Aid Near-Field Category: M1 (AWF 0 dB)

Peak E-field in V/m

Grid 1 256.2	Grid 2 286.3	Grid 3 283.8
Grid 4 154.9	Grid 5 173.8	Grid 6 173.4
Grid 7 264.6	Grid 8 289.5	Grid 9 289.0



0 dB = 289.5V/m

■ Probe Modulation Factor (E-Field 1880MHz AM80)

Test Laboratory: HCT
Ambient Temperature : 21.9 ℃
Date Tested : October 16, 2006

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1019
Program Name: HAC H Dipole

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Device Section ;Measurement SW: DASY4, V4.7 Build 44

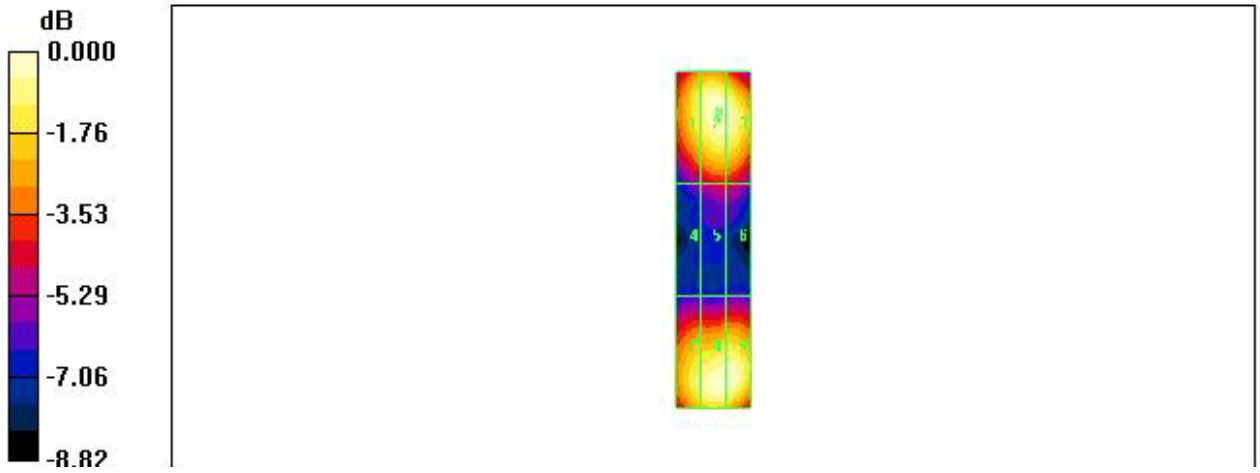
DASY4 Configuration:
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 178.3 V/m
Probe Modulation Factor = 1.00
Reference Value = 79.5 V/m; Power Drift = 0.009 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1 160.1	Grid 2 177.2	Grid 3 175.4
Grid 4 98.5	Grid 5 109.2	Grid 6 109.0
Grid 7 163.6	Grid 8 178.3	Grid 9 178.1



■ Probe Modulation Factor (E-Field 1880MHz CDMA)

Test Laboratory: HCT
Ambient Temperature : 21.9 ℃
Date Tested : October 16, 2006

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1019
Program Name: HAC H Dipole

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Device Section ;Measurement SW: DASY4, V4.7 Build 44

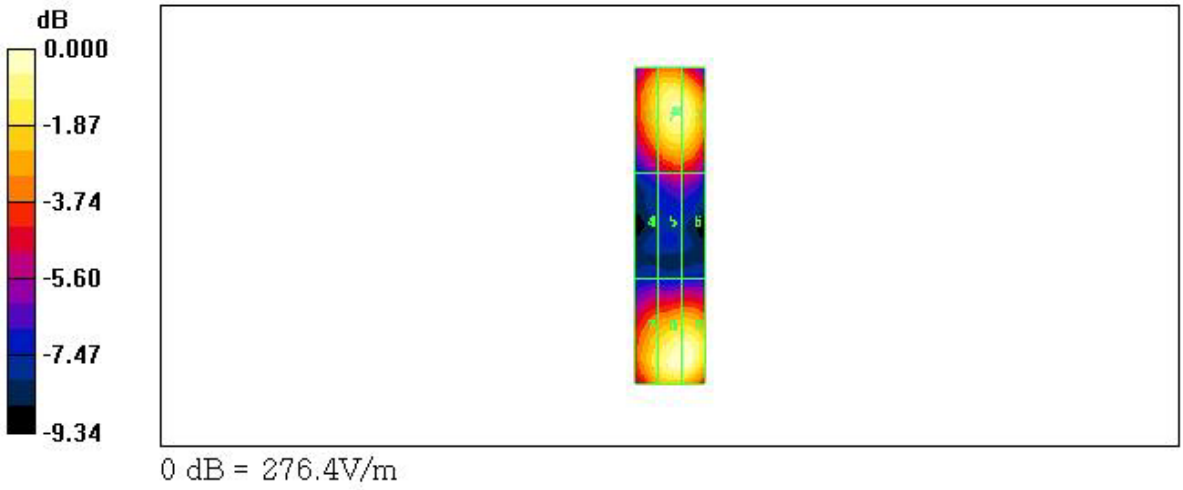
DASY4 Configuration:
- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 276.4 V/m
Probe Modulation Factor = 1.00
Reference Value = 112.7 V/m; Power Drift = -0.008 dB
Hearing Aid Near-Field Category: M1 (AWF 0 dB)

Peak E-field in V/m

Grid 1 230.0	Grid 2 262.4	Grid 3 260.2
Grid 4 141.0	Grid 5 160.2	Grid 6 160.0
Grid 7 238.5	Grid 8 276.4	Grid 9 276.4



0 dB = 276.4V/m

■ Probe Modulation Factor (H-Field 835MHz CW)

Test Laboratory: HCT
Ambient Temperature : 21.9 ℃
Date Tested : October 16, 2006

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1024
Program Name: HAC H Dipole

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Dipole Section ;Measurement SW: DASY4, V4.6 Build 19

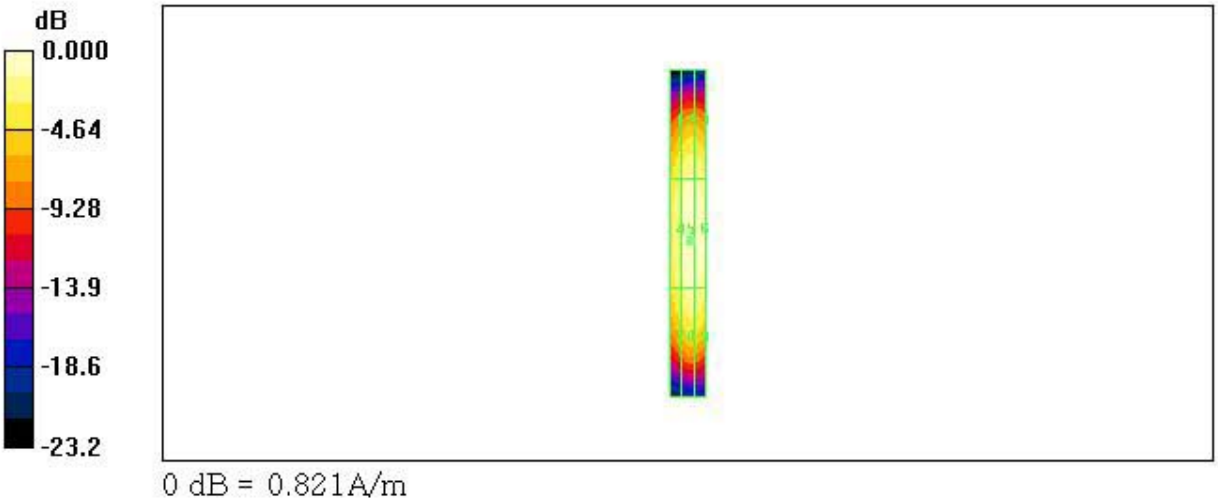
DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2006-07-12
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.821 A/m
Probe Modulation Factor = 1.00
Reference Value = 0.876 A/m; Power Drift = -0.014 dB
Hearing Aid Near-Field Category: M1 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.619	Grid 2 0.702	Grid 3 0.696
Grid 4 0.721	Grid 5 0.821	Grid 6 0.816
Grid 7 0.635	Grid 8 0.728	Grid 9 0.723



■ Probe Modulation Factor (H-Field 835MHz AM80)

Test Laboratory: HCT
Ambient Temperature : 21.9 ℃
Date Tested : October 16, 2006

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1024
Program Name: HAC H Dipole

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Dipole Section ;Measurement SW: DASY4, V4.6 Build 19

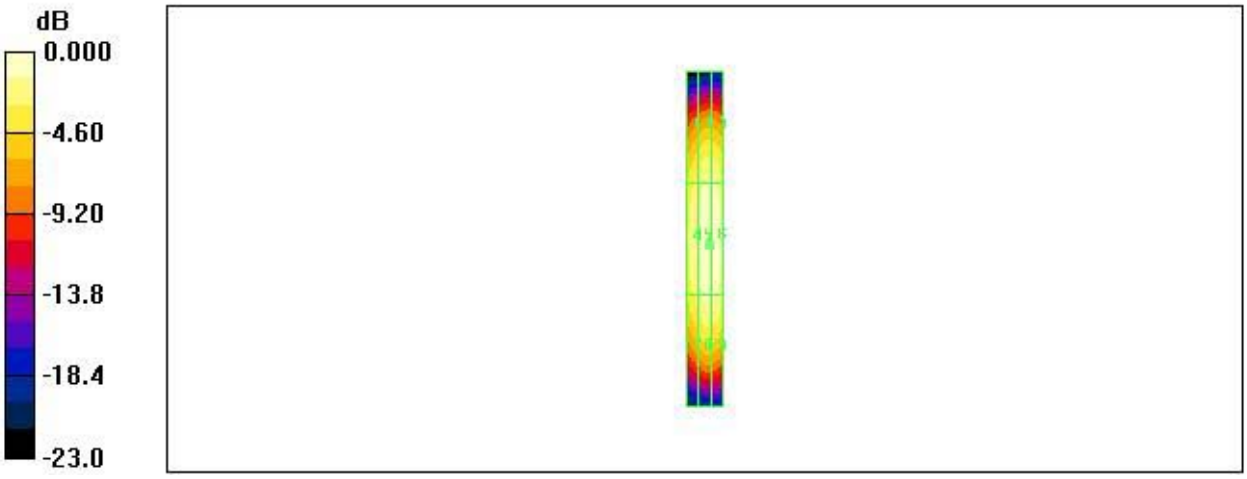
DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2006-07-12
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.531 A/m
Probe Modulation Factor = 1.00
Reference Value = 0.568 A/m; Power Drift = -0.010 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1 **0.403**	Grid 2 **0.455**	Grid 3 **0.452**
Grid 4 **0.469**	Grid 5 **0.531**	Grid 6 **0.529**
Grid 7 **0.413**	Grid 8 **0.472**	Grid 9 **0.469**



■ Probe Modulation Factor (H-Field 835MHz CDMA)

Test Laboratory: HCT
Ambient Temperature : 21.9 ℃
Date Tested : October 16, 2006

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1024
Program Name: HAC H Dipole

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Dipole Section ;Measurement SW: DASY4, V4.6 Build 19

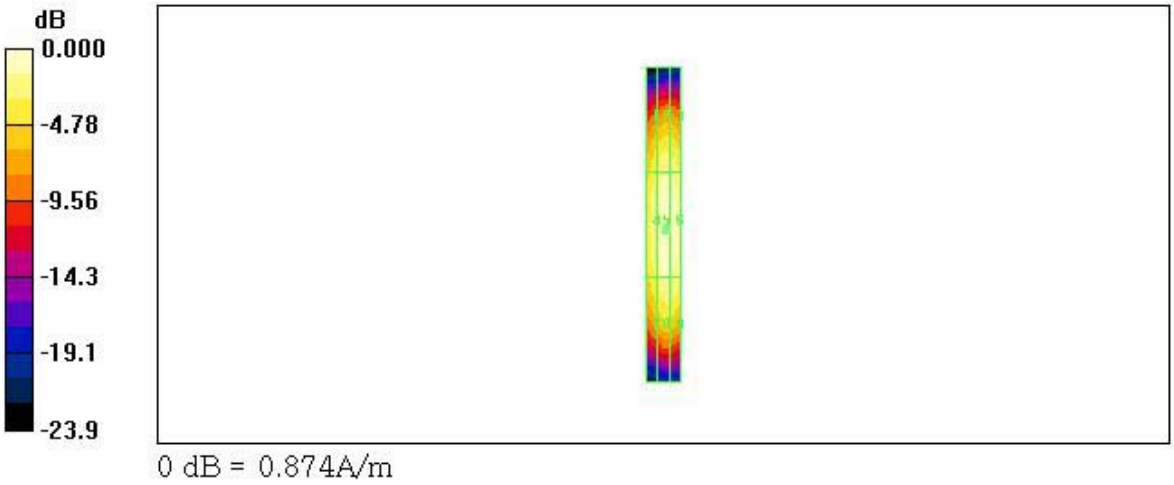
DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2006-07-12
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.874 A/m
Probe Modulation Factor = 1.00
Reference Value = 1.00 A/m; Power Drift = -0.078 dB
Hearing Aid Near-Field Category: M1 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.625	Grid 2 0.727	Grid 3 0.718
Grid 4 0.742	Grid 5 0.874	Grid 6 0.864
Grid 7 0.643	Grid 8 0.760	Grid 9 0.751



0 dB = 0.874A/m

■ Probe Modulation Factor (H-Field 1880MHz CW)

Test Laboratory: HCT
Ambient Temperature : 21.9 ℃
Date Tested : October 16, 2006

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1019
Program Name: HAC H Dipole

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Dipole Section ;Measurement SW: DASY4, V4.6 Build 19

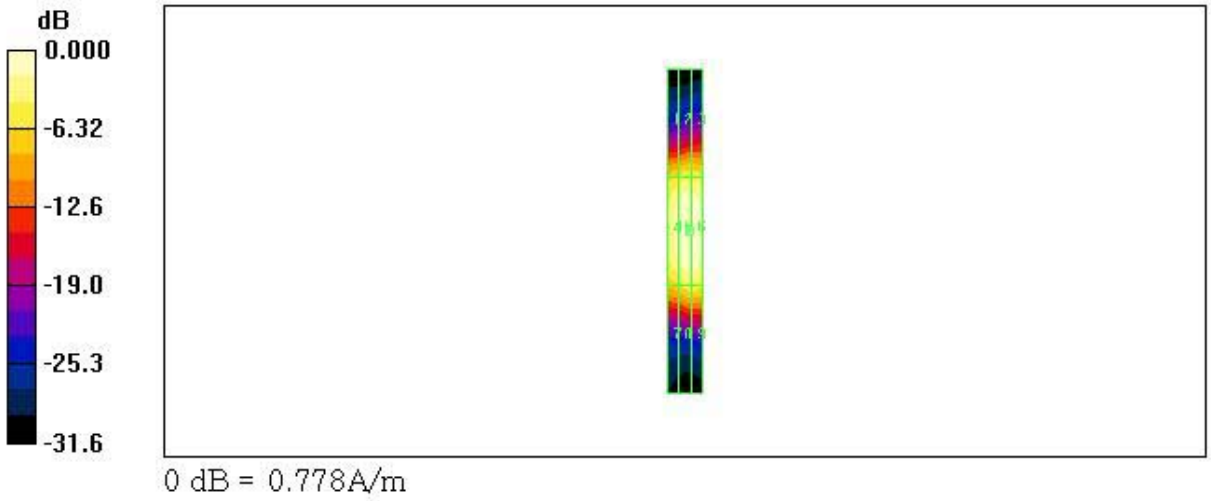
DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2006-07-12
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.778 A/m
Probe Modulation Factor = 1.00
Reference Value = 0.808 A/m; Power Drift = -0.031 dB
Hearing Aid Near-Field Category: M1 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.407	0.460	0.458
Grid 4	Grid 5	Grid 6
0.684	0.778	0.775
Grid 7	Grid 8	Grid 9
0.378	0.452	0.451



0 dB = 0.778A/m

■ Probe Modulation Factor (H-Field 1880MHz AM80)

Test Laboratory: HCT
Ambient Temperature : 21.9 ℃
Date Tested : October 16, 2006

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1019
Program Name: HAC H Dipole

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Dipole Section ;Measurement SW: DASY4, V4.6 Build 19

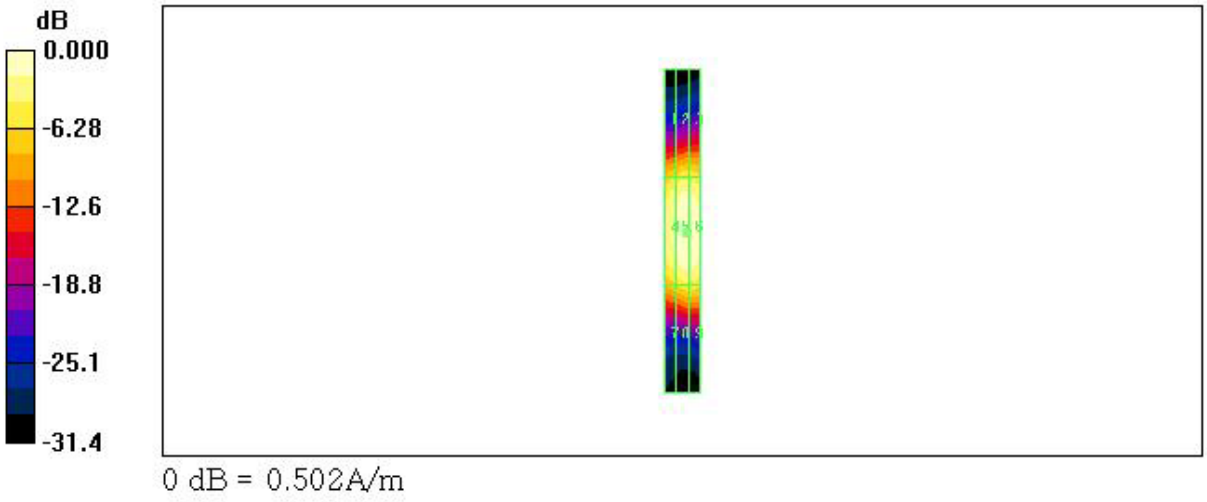
DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2006-07-12
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.502 A/m
Probe Modulation Factor = 1.00
Reference Value = 0.534 A/m; Power Drift = -0.047 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.260	Grid 2 0.294	Grid 3 0.292
Grid 4 0.439	Grid 5 0.502	Grid 6 0.499
Grid 7 0.243	Grid 8 0.289	Grid 9 0.289



0 dB = 0.502A/m

■ Probe Modulation Factor (H-Field 1880MHz CDMA)

Test Laboratory: HCT
Ambient Temperature : 21.9 ℃
Date Tested : October 16, 2006

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1019
Program Name: HAC H Dipole

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Dipole Section ;Measurement SW: DASY4, V4.6 Build 19

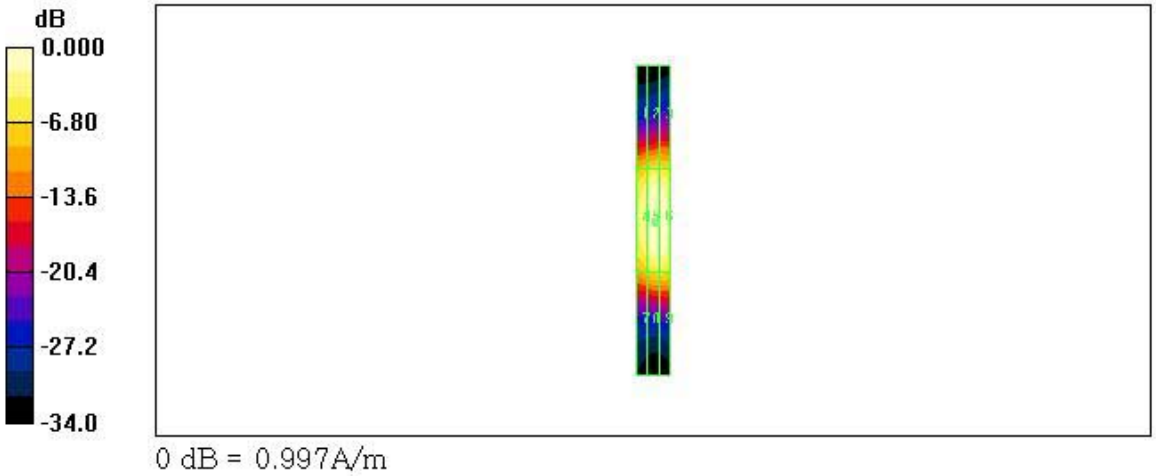
DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2006-07-12
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2006-03-17
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.997 A/m
Probe Modulation Factor = 1.00
Reference Value = 1.11 A/m; Power Drift = -0.007 dB
Hearing Aid Near-Field Category: M1 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.436	Grid 2 0.513	Grid 3 0.502
Grid 4 0.816	Grid 5 0.997	Grid 6 0.984
Grid 7 0.400	Grid 8 0.509	Grid 9 0.508



0 dB = 0.997A/m