

Test Laboratory: Compliance Certification Services

HAC_E_CD1880V3

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1010

Communication System: System Check Signal - CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/9/2009

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 10/20/2008

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 137.9 V/m

Probe Modulation Factor = 1.00

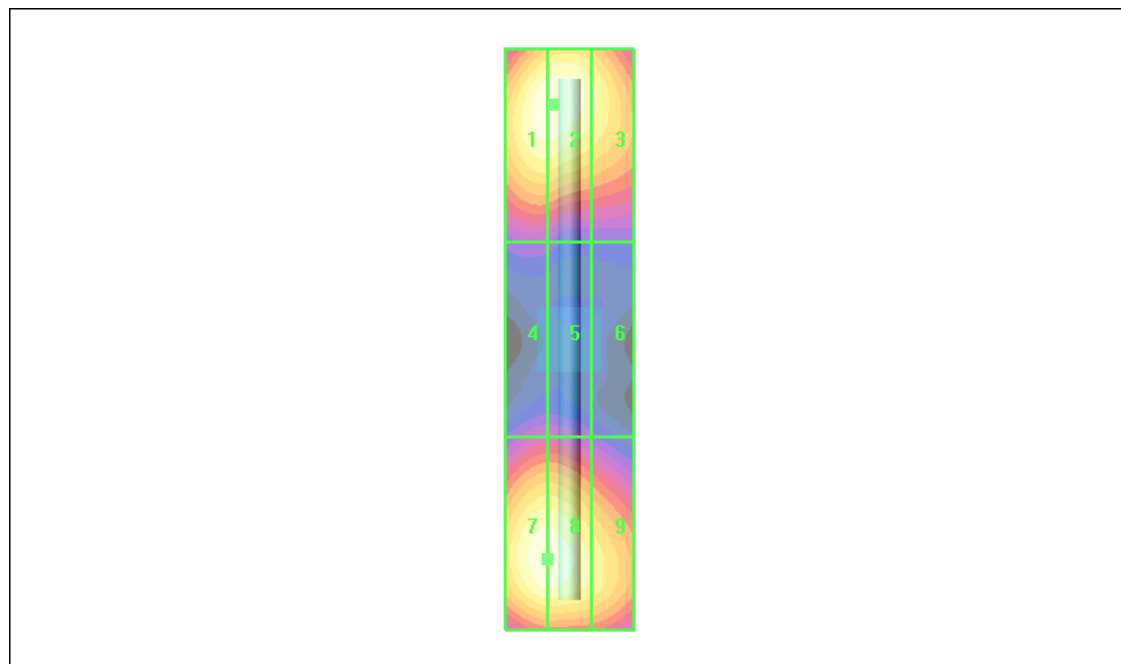
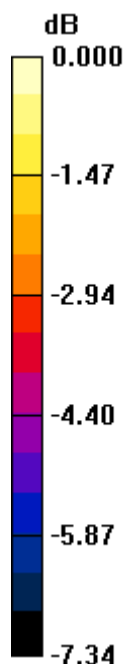
Device Reference Point: 0.000, 0.000, -2.10 mm

Reference Value = 132.6 V/m; Power Drift = 0.007 dB

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

Peak E-field in V/m

Grid 1 131.2 M2	Grid 2 132.5 M2	Grid 3 122.1 M2
Grid 4 79.4 M3	Grid 5 80.4 M3	Grid 6 72.2 M3
Grid 7 132.7 M2	Grid 8 132.6 M2	Grid 9 118.4 M2



0 dB = 134.9V/m

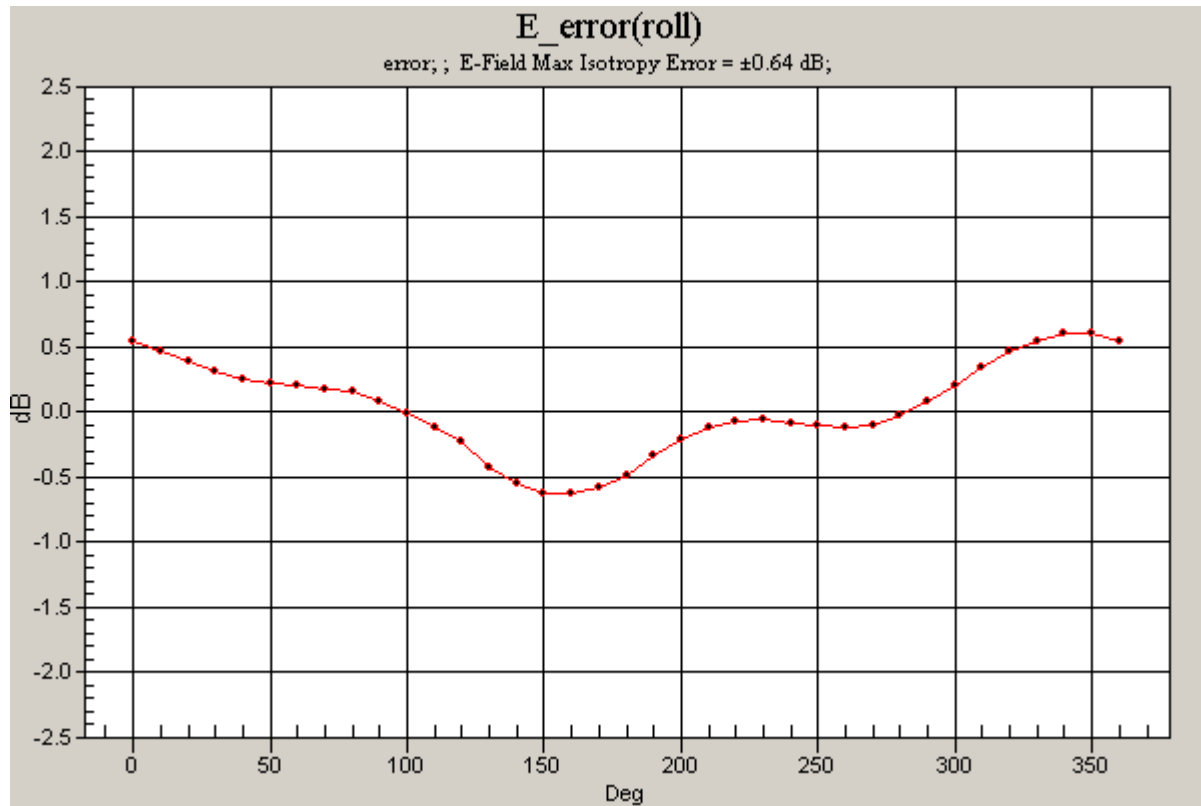
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HAC_E_CD1880V3

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1010

Communication System: System Check Signal - CW; Frequency: 1880 MHz; Duty Cycle: 1:1

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Rotation (1D): 37 rotation steps; E-Field Max Isotropy Error = ± 0.64 dB;



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HAC_E_CD835V3

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1014

Communication System: System Check Signal - CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/9/2009

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 10/20/2008

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835V3 = 10 mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 182.1 V/m

Probe Modulation Factor = 1.00

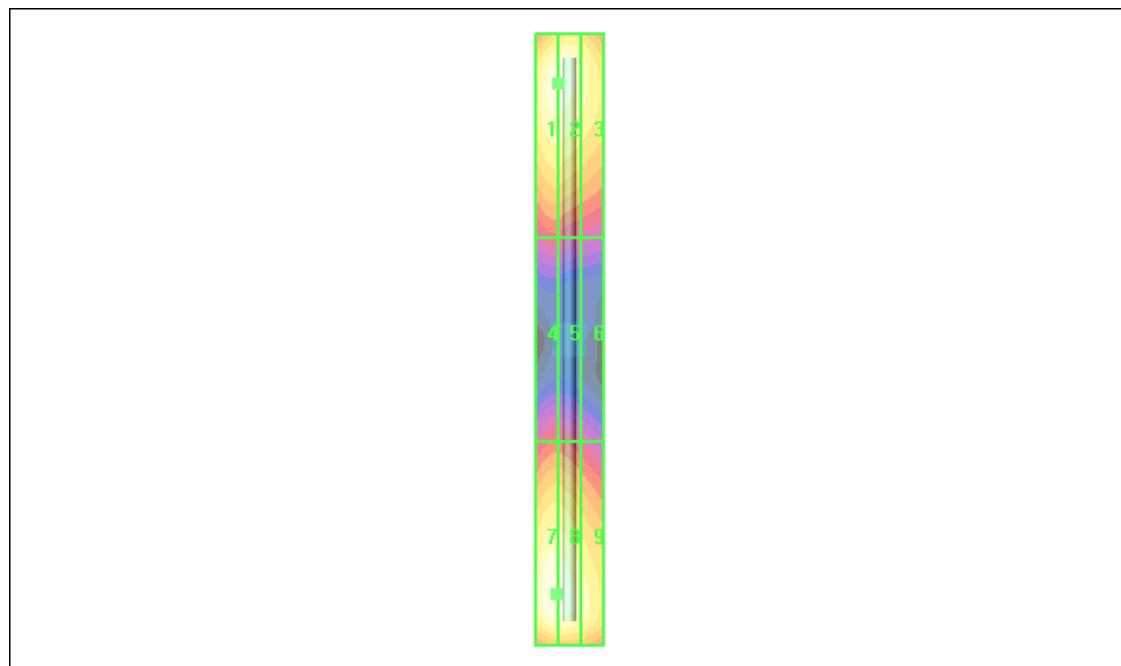
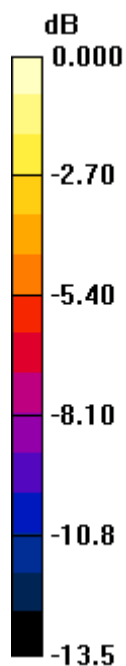
Device Reference Point: 0.000, 0.000, -6.10 mm

Reference Value = 116.2 V/m; Power Drift = 0.008 dB

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

Peak E-field in V/m

Grid 1 175.2 M4	Grid 2 175.3 M4	Grid 3 138.1 M4
Grid 4 87.1 M4	Grid 5 88.2 M4	Grid 6 76.2 M4
Grid 7 179.8 M4	Grid 8 178.3 M4	Grid 9 177.4 M4



0 dB = 182.8V/m

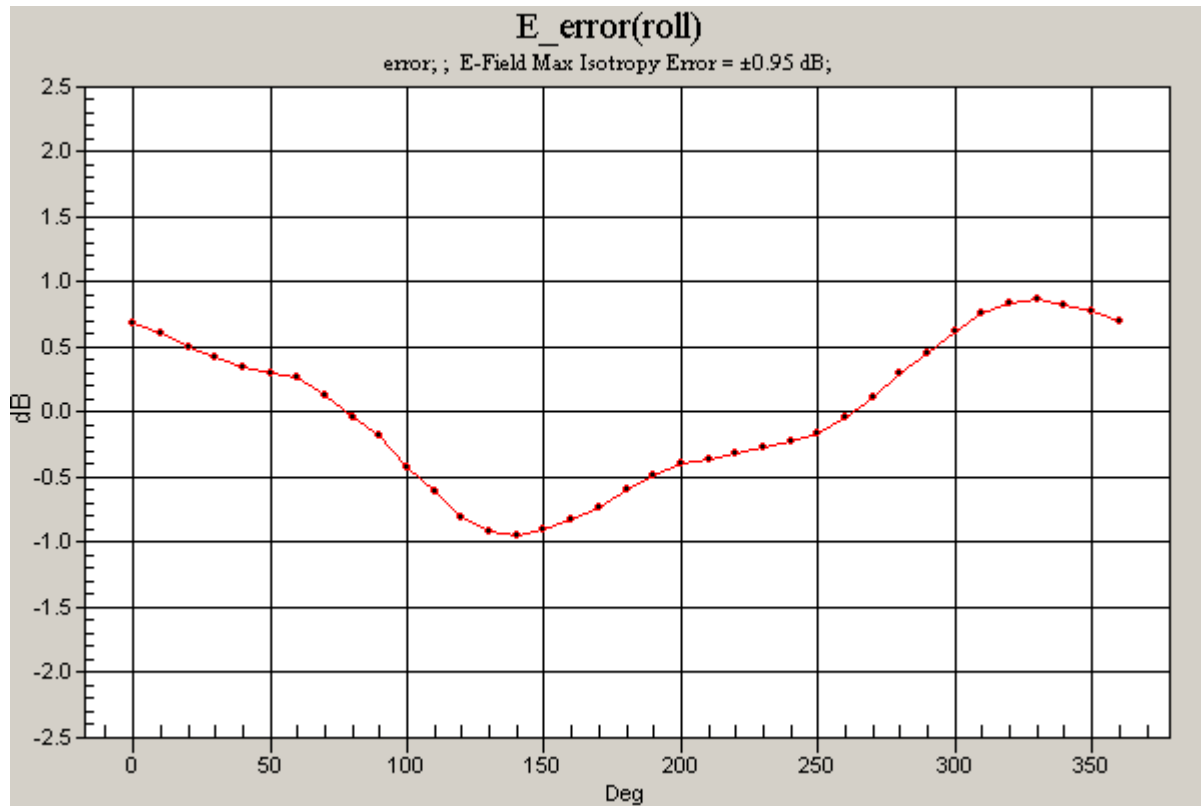
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HAC_E_CD835V3

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1014

Communication System: System Check Signal - CW; Frequency: 835 MHz; Duty Cycle: 1:1

E Scan - measurement distance from the probe sensor center to CD835V3 = 10 mm/Rotation (1D): 37 rotation steps;
E-Field Max Isotropy Error = ± 0.95 dB;



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HAC_H3DV6_Dipole CD1880V3

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1010

Communication System: System Check Signal - CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 2/10/2009

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 10/20/2008

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.415 A/m

Probe Modulation Factor = 1.00

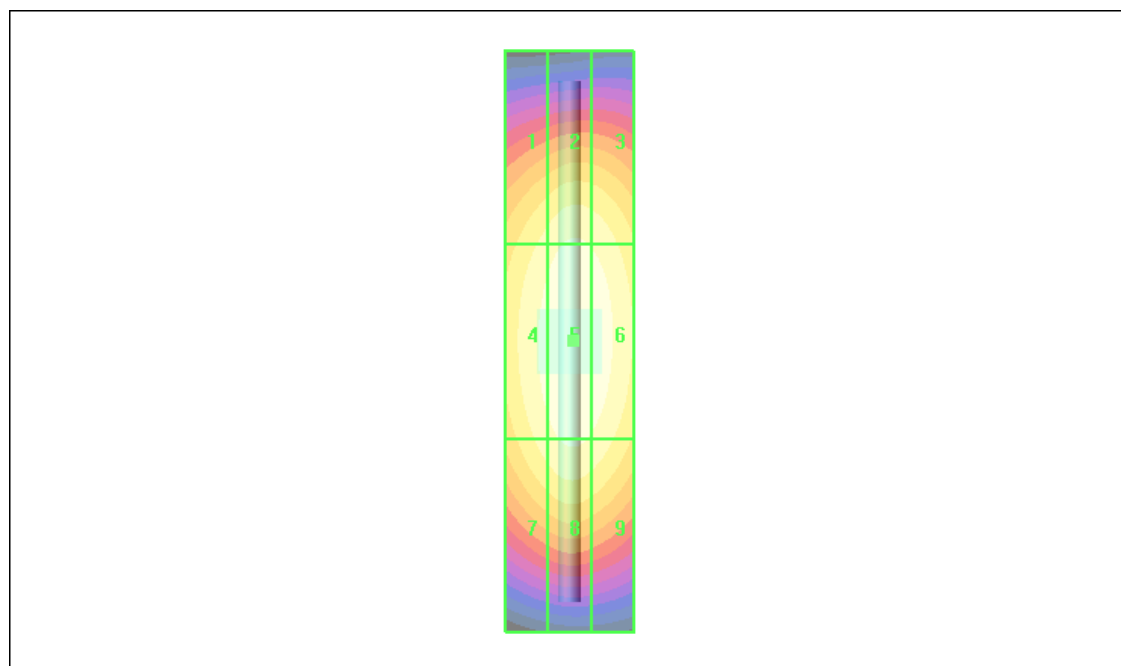
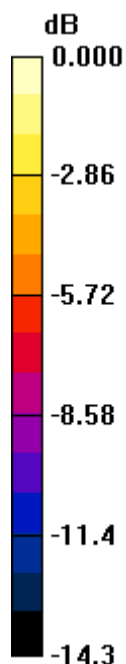
Device Reference Point: 0.000, 0.000, -6.20 mm

Reference Value = 0.481 A/m; Power Drift = -0.004 dB

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

Peak H-field in A/m

Grid 1 0.381 M2	Grid 2 0.422 M2	Grid 3 0.407 M2
Grid 4 0.435 M2	Grid 5 0.465 M2	Grid 6 0.442 M2
Grid 7 0.397 M2	Grid 8 0.424 M2	Grid 9 0.402 M2



0 dB = 0.460A/m

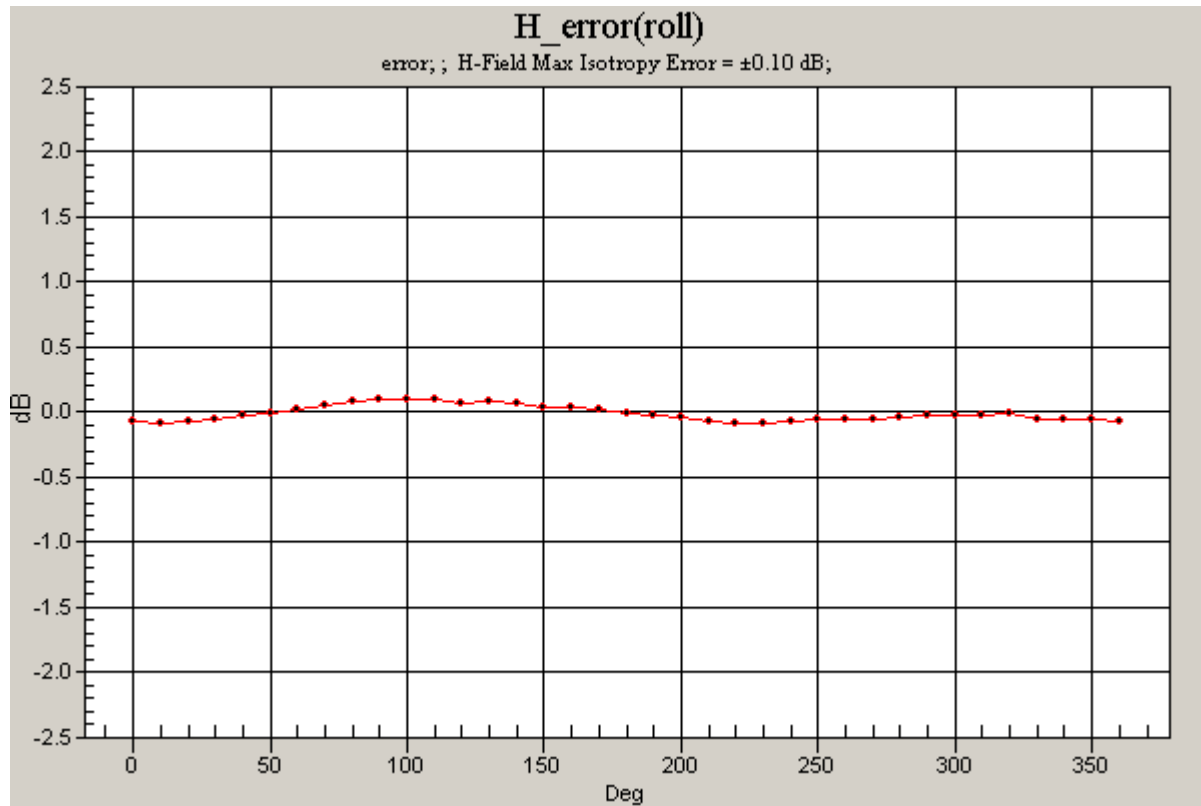
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HAC_H3DV6_Dipole CD1880V3

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1010

Communication System: System Check Signal - CW; Frequency: 1880 MHz; Duty Cycle: 1:1

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Rotation (1D): 37 rotation steps; H-Field Max Isotropy Error = ± 0.10 dB;



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HAC_H3DV6_Dipole CD835V3

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1014

Communication System: System Check Signal - CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6157; ; Calibrated: 2/10/2009

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn427; Calibrated: 10/20/2008

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 100x

- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.452 A/m

Probe Modulation Factor = 1.00

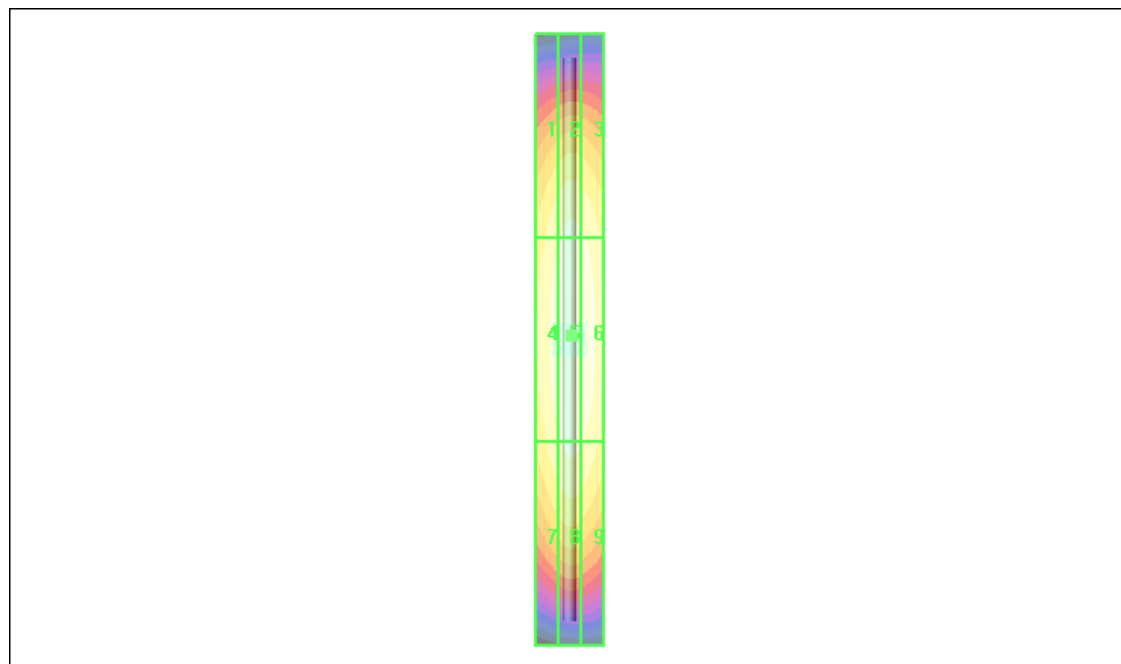
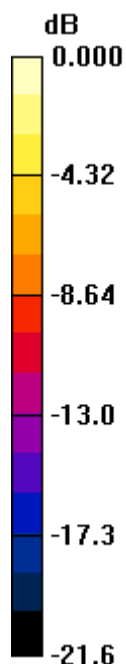
Device Reference Point: 0.000, 0.000, -6.10 mm

Reference Value = 0.487 A/m; Power Drift = -0.018 dB

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

Peak H-field in A/m

Grid 1 0.371 M4	Grid 2 0.401 M4	Grid 3 0.436 M4
Grid 4 0.417 M4	Grid 5 0.451 M4	Grid 6 0.439 M4
Grid 7 0.371 M4	Grid 8 0.401 M4	Grid 9 0.386 M4



0 dB = 0.465A/m

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HAC_H3DV6_Dipole CD835V3

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1014

Communication System: System Check Signal - CW; Frequency: 835 MHz; Duty Cycle: 1:1

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Rotation (1D): 37 rotation steps; H-Field Max Isotropy Error = ± 0.20 dB;

