

Test Laboratory: Compliance Certification Services

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 = 172.2 V/m

Probe Modulation Factor = 1.00

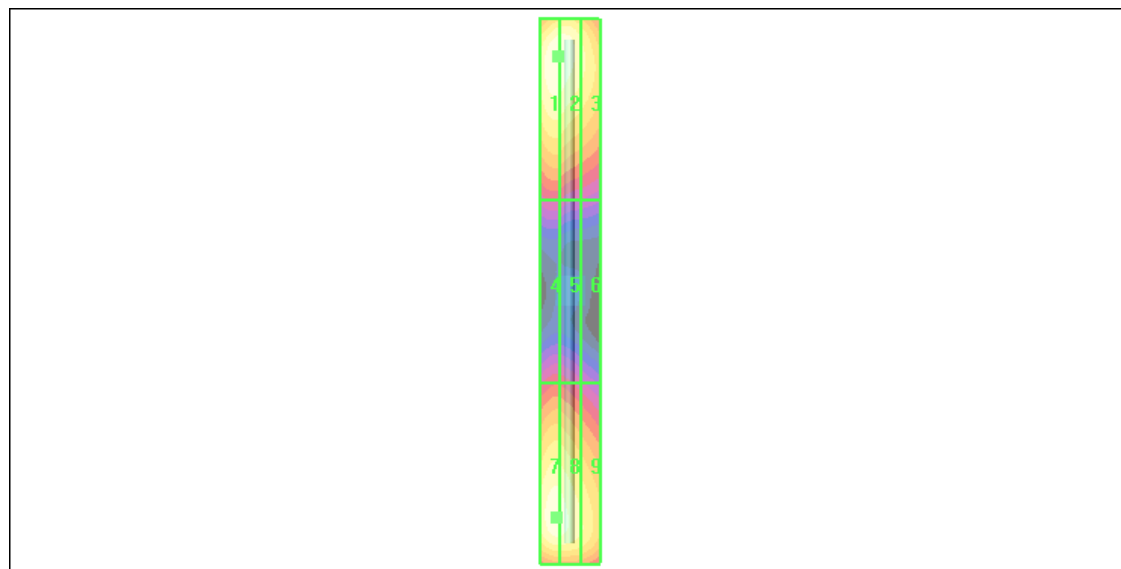
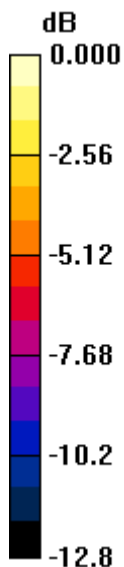
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 110.5 V/m; Power Drift = -0.047 dB

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

Peak E-field in V/m

Grid 1 172.2 M4	Grid 2 172.1 M4	Grid 3 148.8 M4
Grid 4 85.2 M4	Grid 5 85.0 M4	Grid 6 73.7 M4
Grid 7 167.2 M4	Grid 8 166.4 M4	Grid 9 145.0 M4



0 dB = 172.2V/m

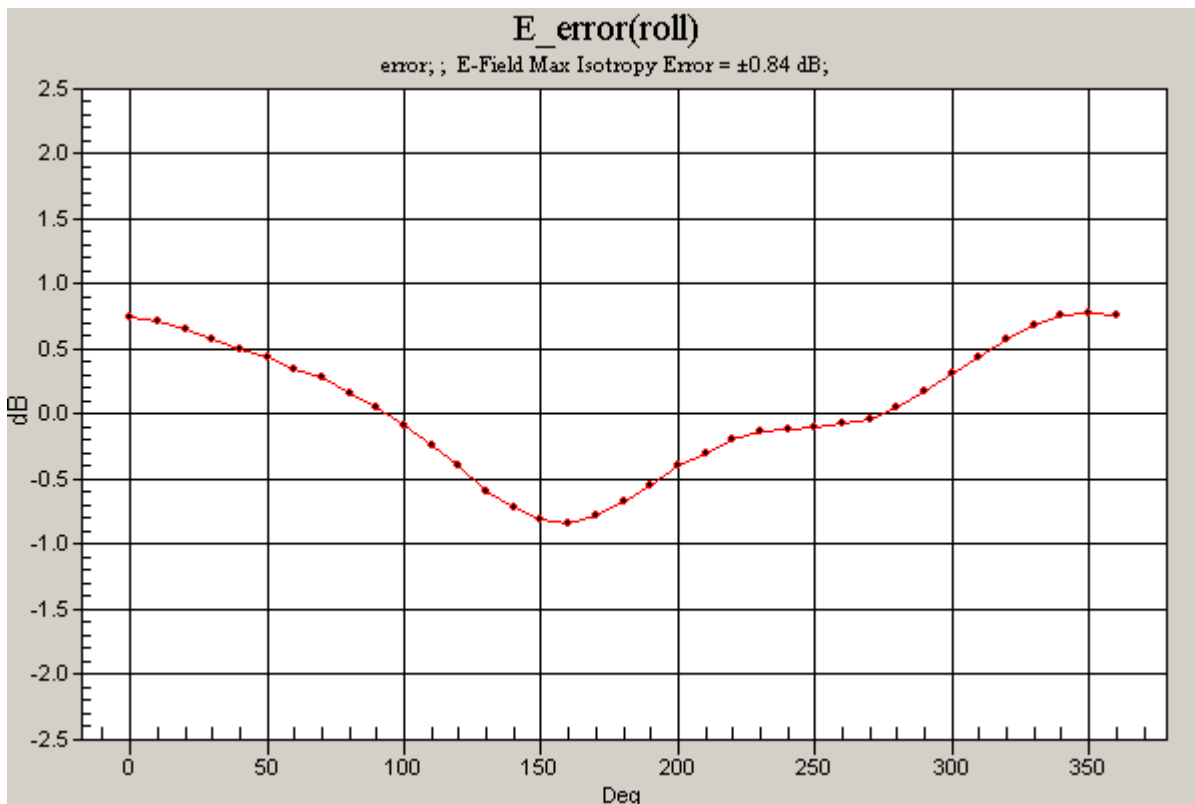
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HAC_E_CD835V3

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 = ± 0.84 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 = 0.465 A/m

Probe Modulation Factor = 1.00

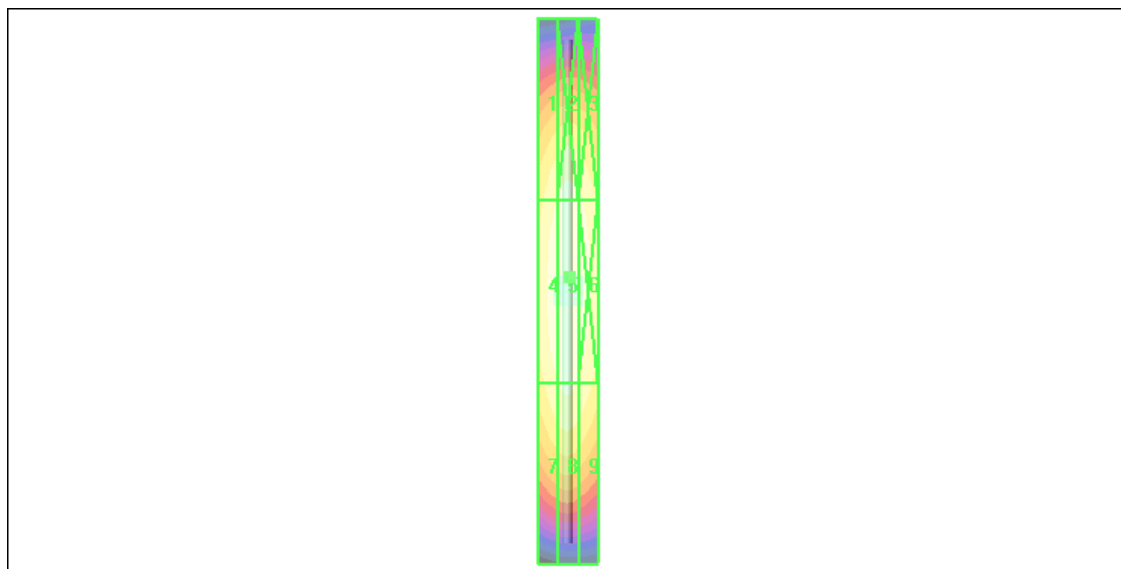
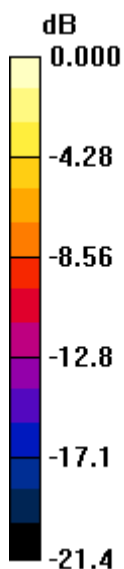
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.493 A/m; Power Drift = -0.003 dB

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

Peak H-field in A/m

Grid 1 0.396 M4	Grid 2 0.422 M4	Grid 3 0.404 M4
Grid 4 0.438 M4	Grid 5 0.465 M4	Grid 6 0.445 M4
Grid 7 0.390 M4	Grid 8 0.411 M4	Grid 9 0.390 M4



0 dB = 0.465A/m

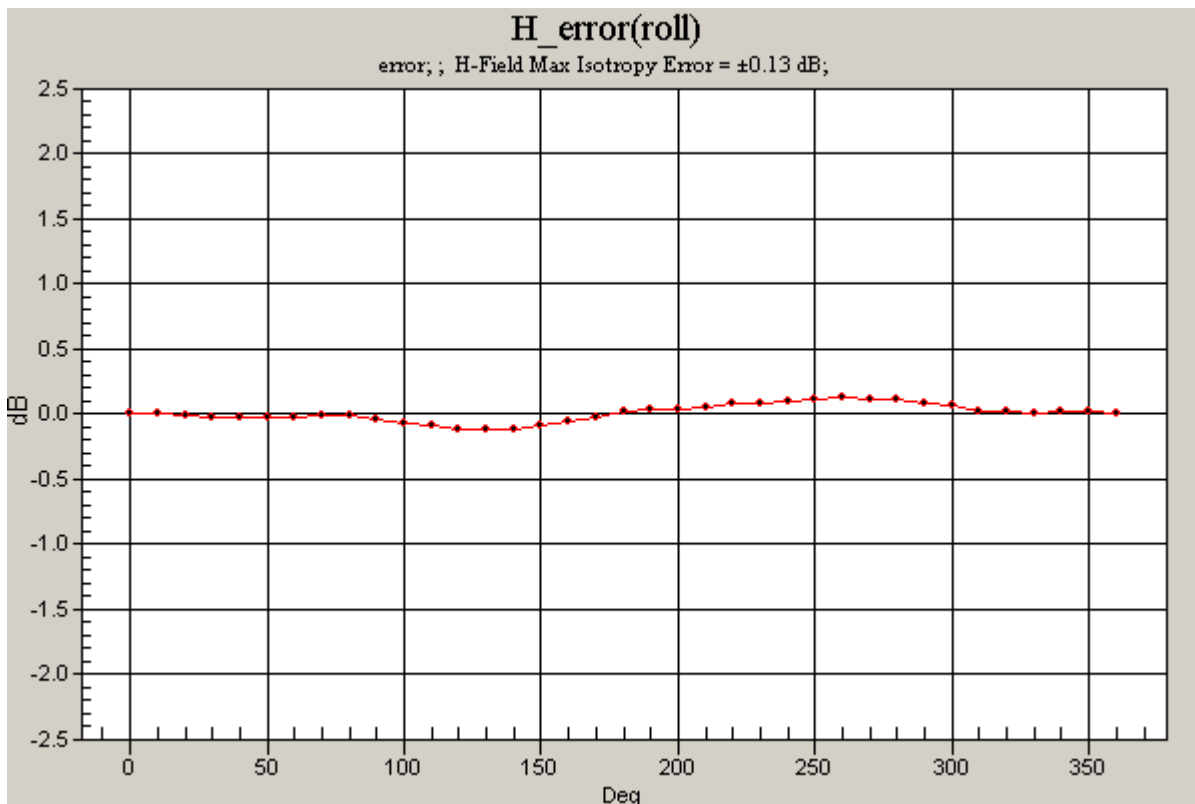
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HAC_H3DV6_Dipole CD835V3

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 = ± 0.13 dB;



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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

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 = 127.7 V/m

Probe Modulation Factor = 1.00

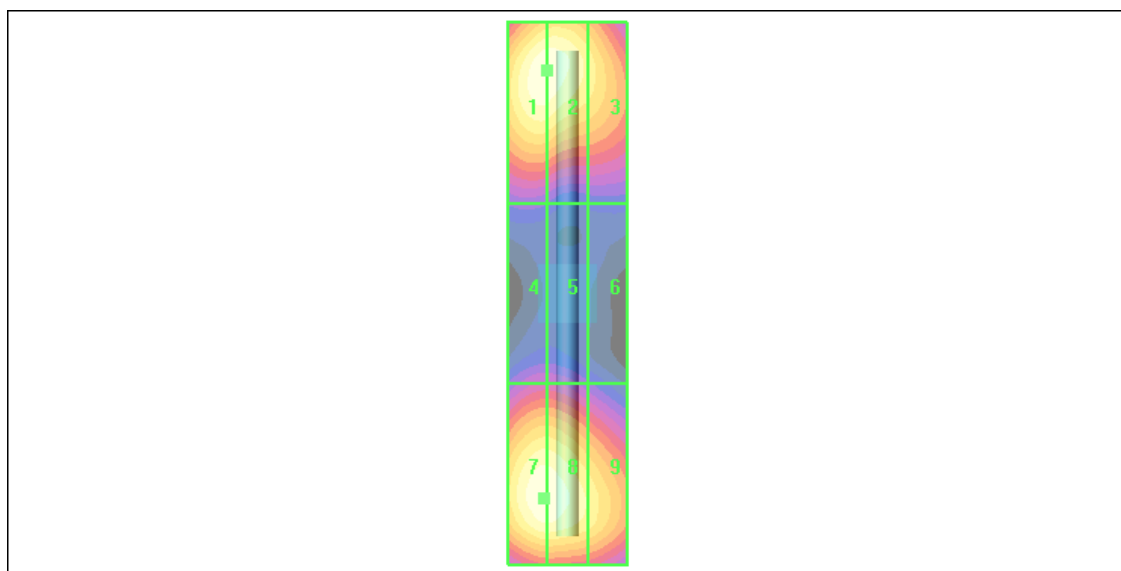
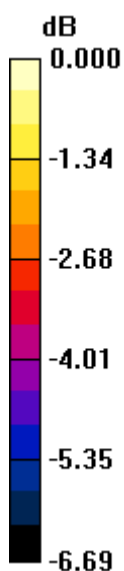
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 125.4 V/m; Power Drift = -0.012 dB

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

Peak E-field in V/m

Grid 1 127.1 M2	Grid 2 127.1 M2	Grid 3 113.1 M2
Grid 4 81.7 M3	Grid 5 81.7 M3	Grid 6 73.6 M3
Grid 7 127.7 M2	Grid 8 127.7 M2	Grid 9 114.4 M2



0 dB = 127.7V/m

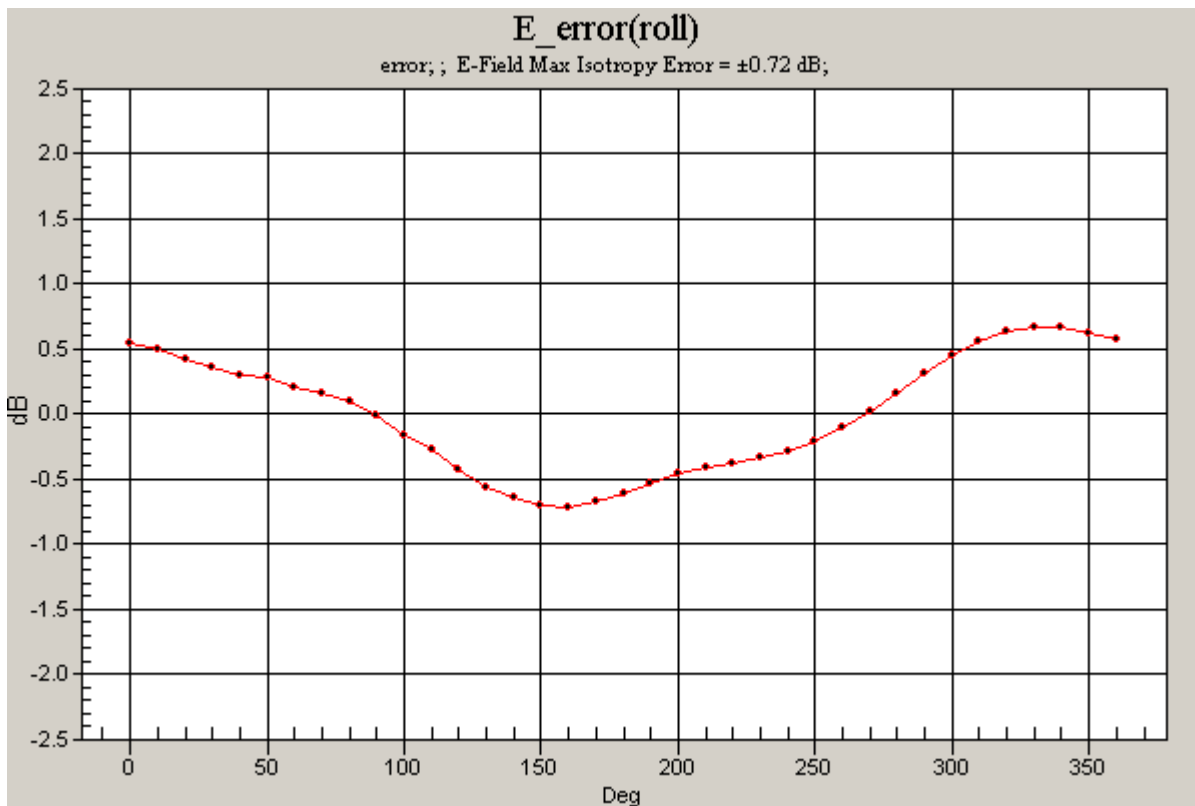
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HAC_E_CD1880V3

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 = ± 0.72 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 = 0.445 A/m

Probe Modulation Factor = 1.00

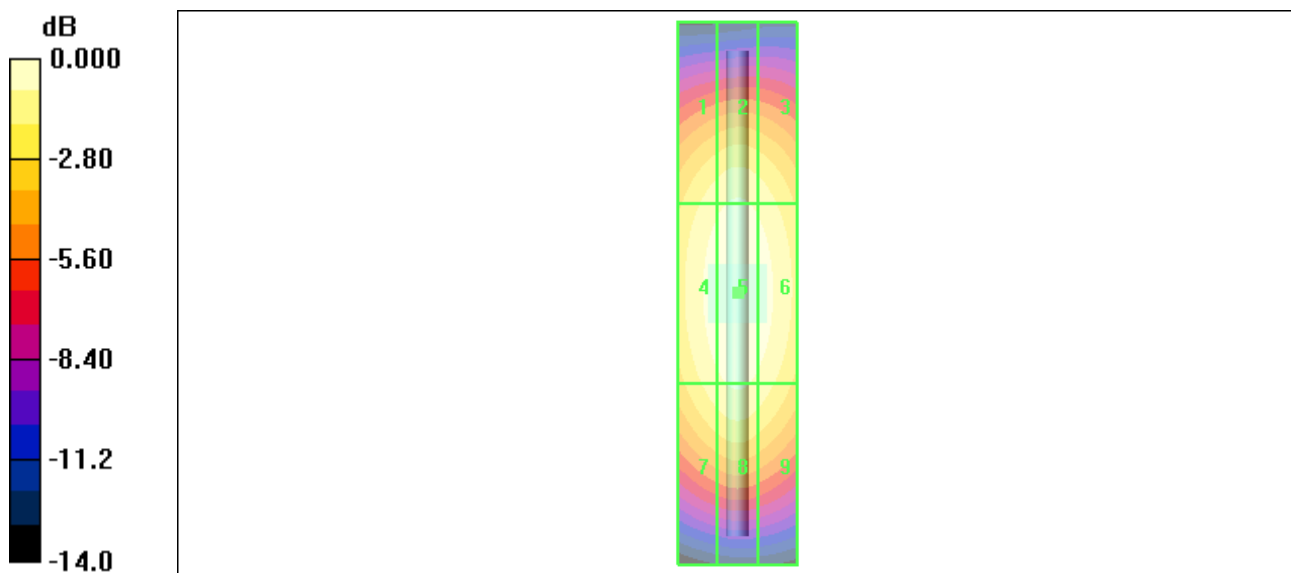
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.471 A/m; Power Drift = -0.009 dB

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

Peak H-field in A/m

Grid 1 0.387 M2	Grid 2 0.406 M2	Grid 3 0.388 M2
Grid 4 0.424 M2	Grid 5 0.445 M2	Grid 6 0.425 M2
Grid 7 0.386 M2	Grid 8 0.406 M2	Grid 9 0.386 M2



0 dB = 0.445A/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 = ± 0.07 dB;

