

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 = 157.8 V/m

Probe Modulation Factor = 0.910

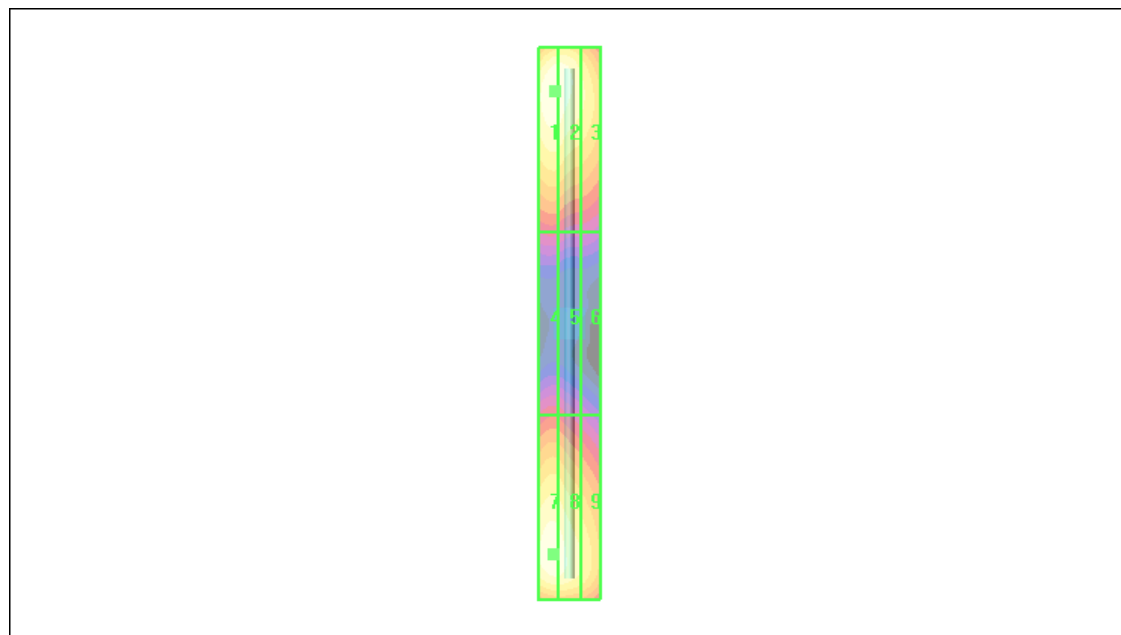
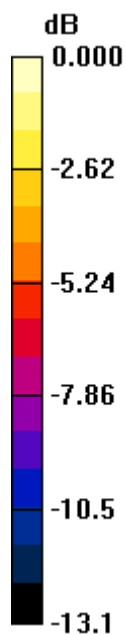
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 107.4 V/m; Power Drift = -0.056 dB

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

Peak E-field in V/m

Grid 1 157.8 M4	Grid 2 157.0 M4	Grid 3 134.4 M4
Grid 4 77.9 M4	Grid 5 76.9 M4	Grid 6 67.0 M4
Grid 7 154.9 M4	Grid 8 152.6 M4	Grid 9 131.6 M4



0 dB = 157.8V/m

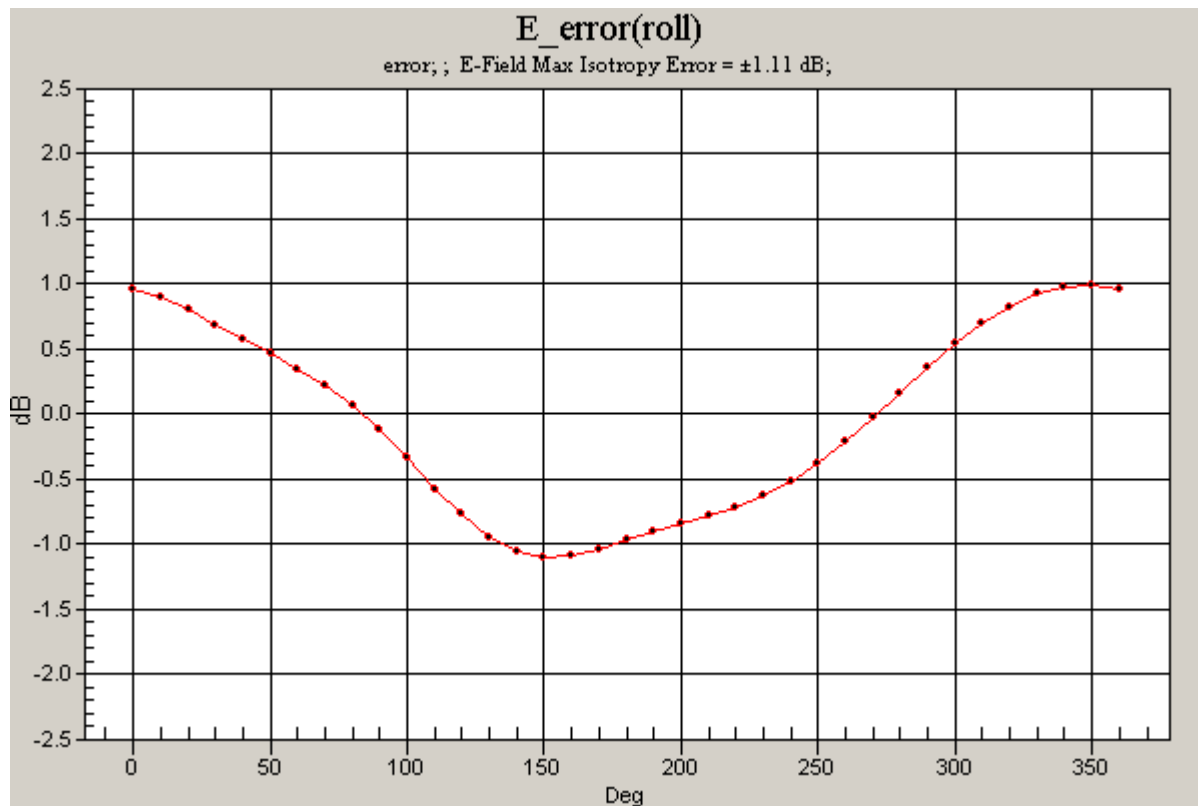
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HAC_E_CD835V3

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 = ± 1.11 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 = 129.6 V/m

Probe Modulation Factor = 0.930

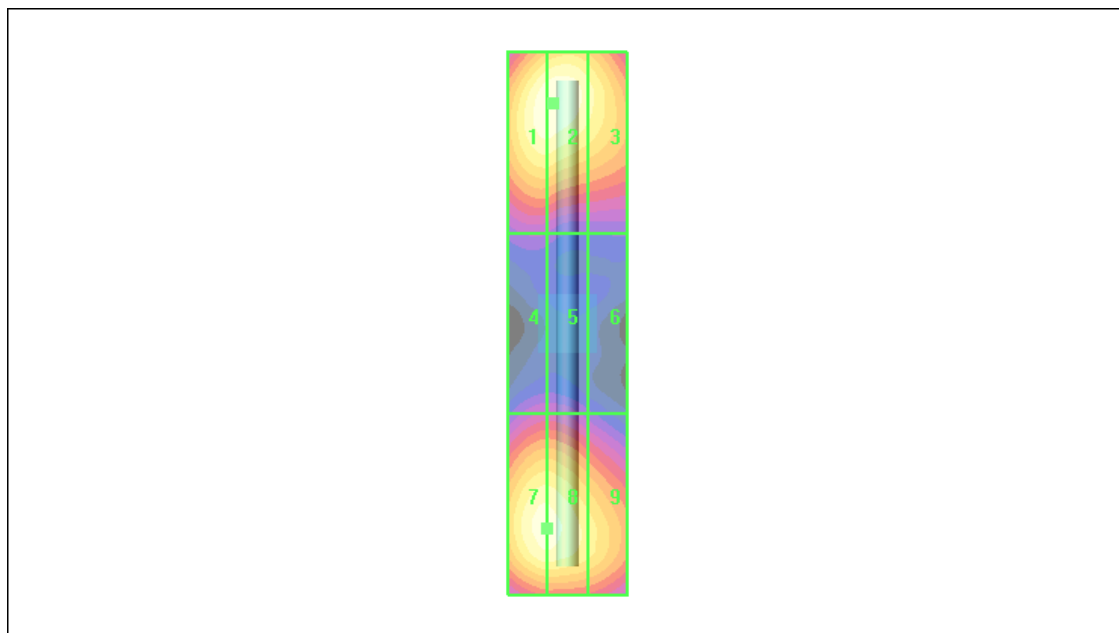
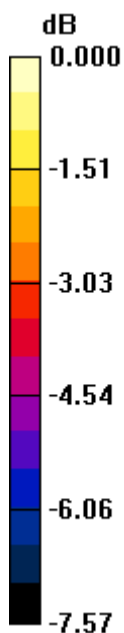
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 135.0 V/m; Power Drift = -0.012 dB

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

Peak E-field in V/m

Grid 1 129.0 M2	Grid 2 129.6 M2	Grid 3 118.8 M2
Grid 4 78.1 M3	Grid 5 78.1 M3	Grid 6 70.1 M3
Grid 7 126.8 M2	Grid 8 126.8 M2	Grid 9 112.7 M2



0 dB = 129.6V/m

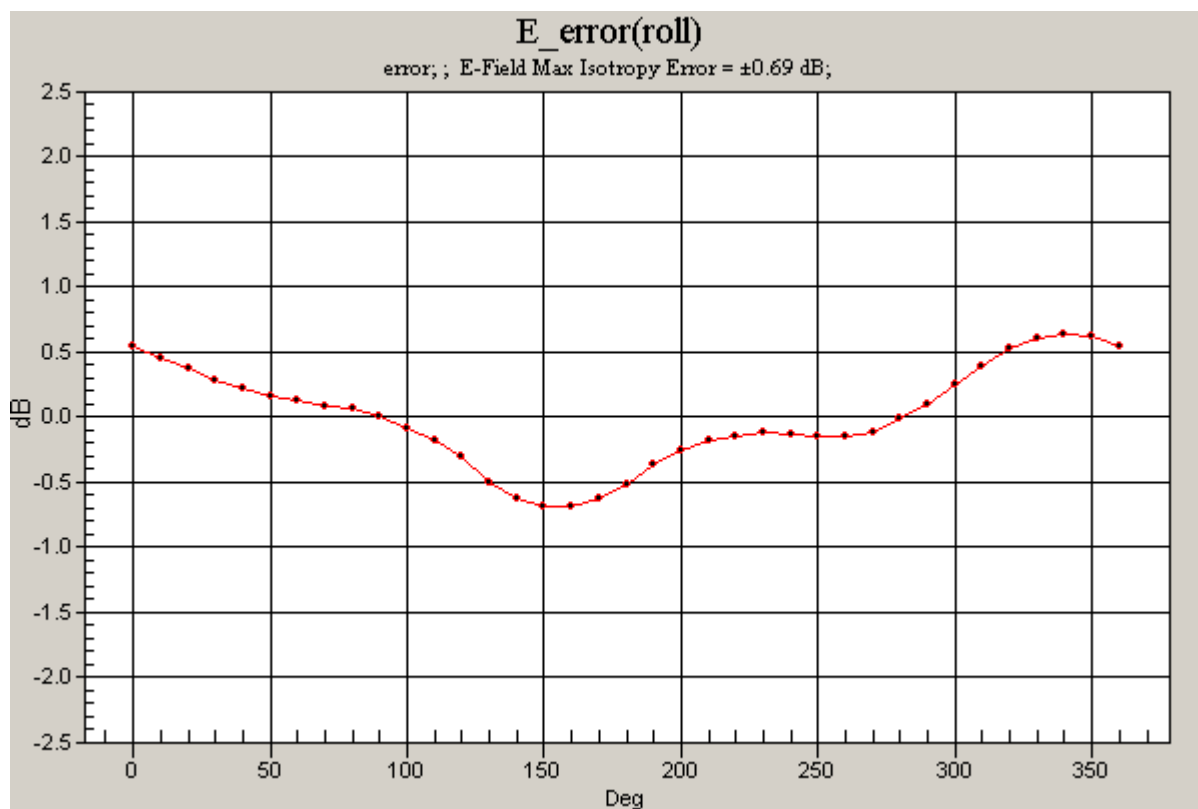
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HAC_E_CD1880V3

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 = ± 0.69 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 = 0.410 A/m

Probe Modulation Factor = 0.880

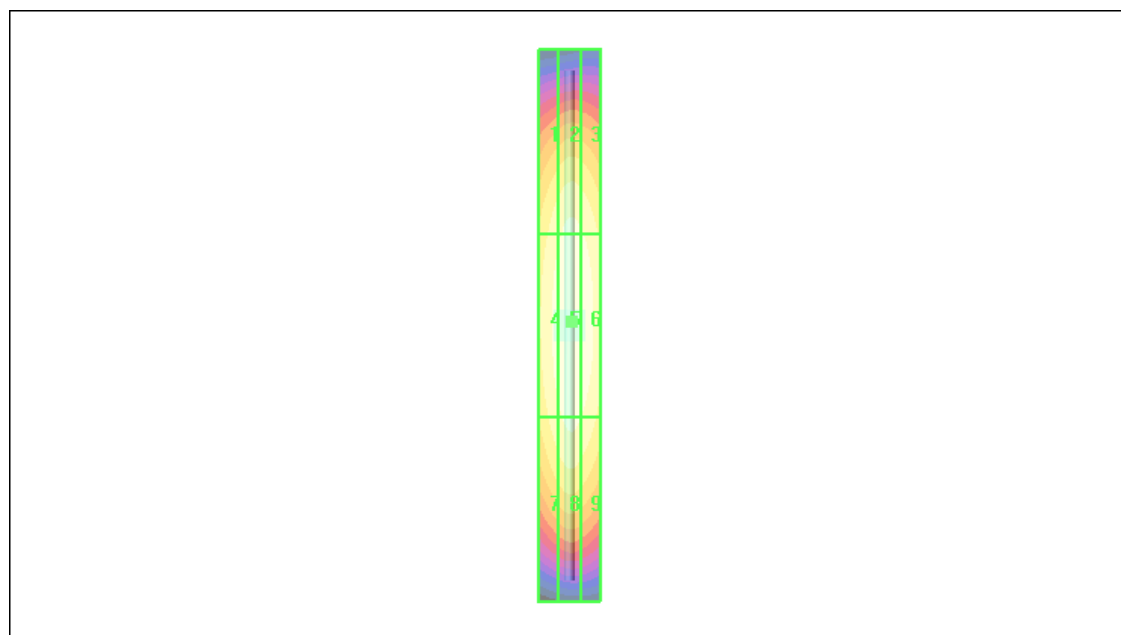
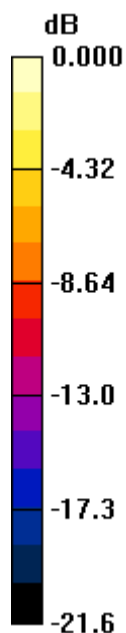
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.495 A/m; Power Drift = -0.011 dB

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

Peak H-field in A/m

Grid 1 0.321 M4	Grid 2 0.354 M4	Grid 3 0.364 M4
Grid 4 0.361 M4	Grid 5 0.425 M4	Grid 6 0.395 M4
Grid 7 0.322 M4	Grid 8 0.352 M4	Grid 9 0.349 M4



0 dB = 0.410A/m

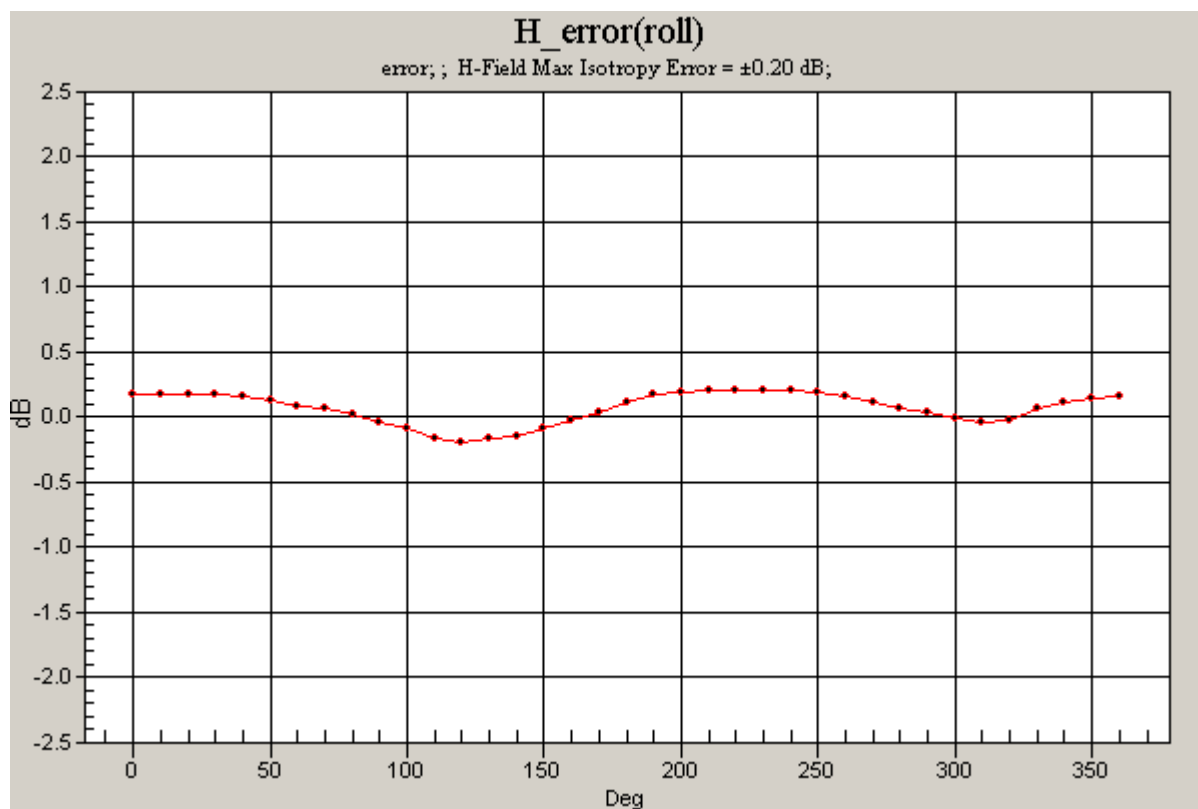
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HAC_H3DV6_Dipole CD835V3

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;



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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 = 0.460 A/m

Probe Modulation Factor = 1.00

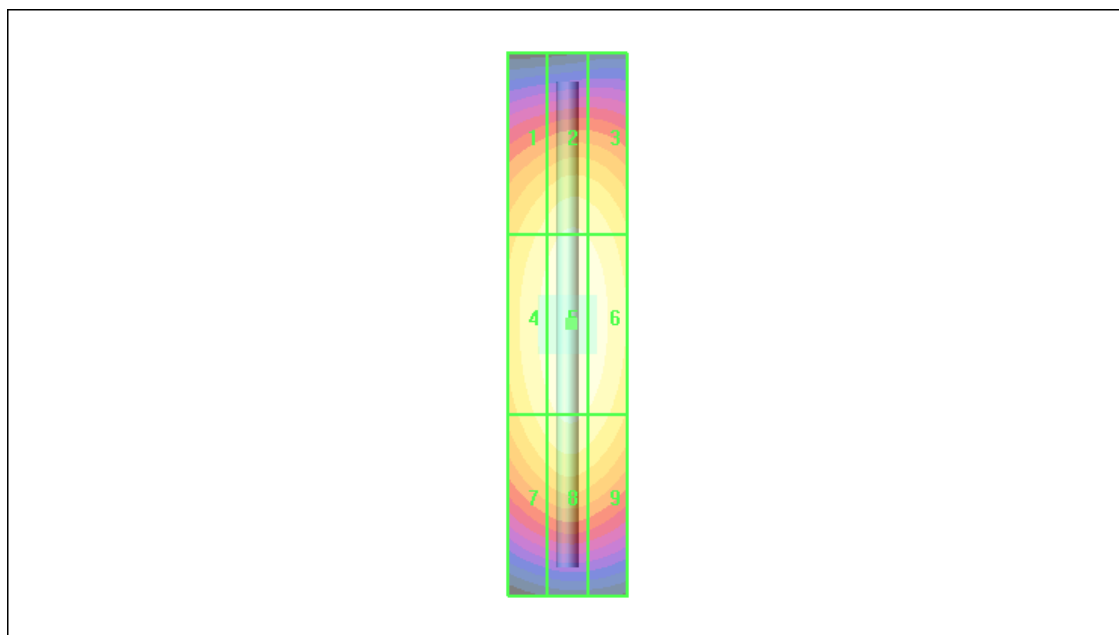
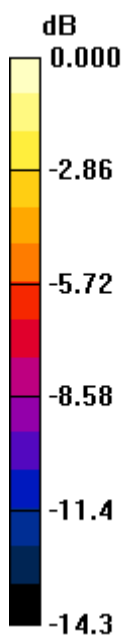
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.488 A/m; Power Drift = -0.009 dB

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

Peak H-field in A/m

Grid 1 0.378 M2	Grid 2 0.411 M2	Grid 3 0.403 M2
Grid 4 0.422 M2	Grid 5 0.460 M2	Grid 6 0.435 M2
Grid 7 0.394 M2	Grid 8 0.412 M2	Grid 9 0.401 M2



0 dB = 0.460A/m

Test Laboratory: Compliance Certification Services

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;

