

Test Laboratory: Compliance Certification Services

UMTS1900 HAC_ER_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: UMTS Band II; Frequency: 1852.4 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 - L-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 22.1 V/m

Probe Modulation Factor = 0.920

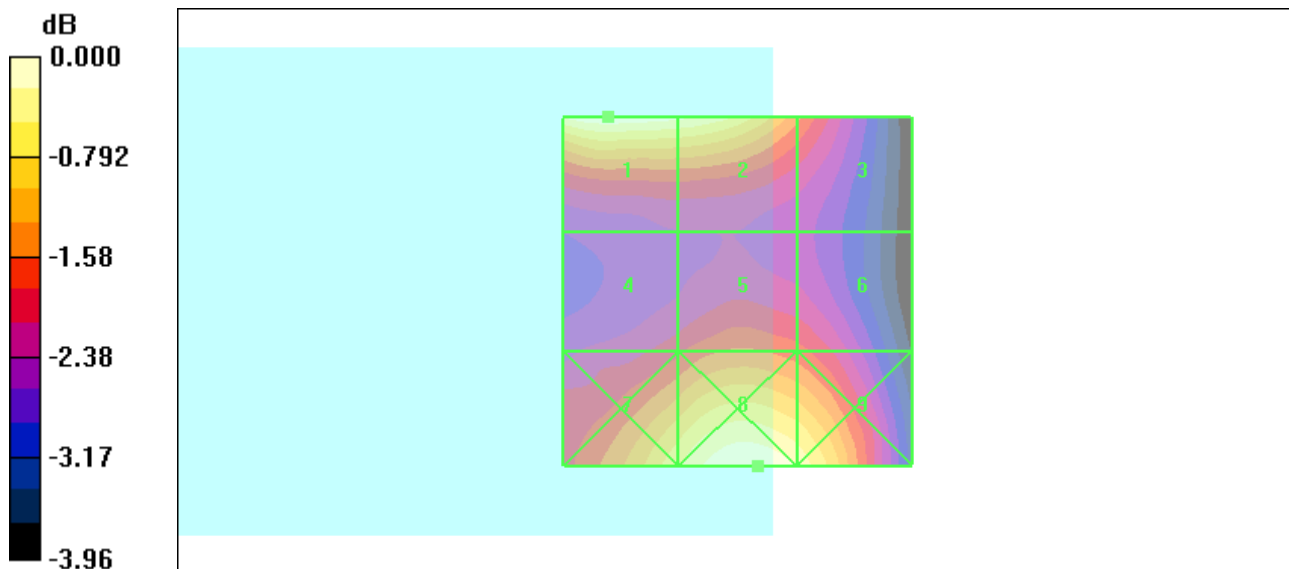
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 21.8 V/m; Power Drift = 0.118 dB

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

Peak E-field in V/m

Grid 1 22.1 M4	Grid 2 21.6 M4	Grid 3 18.6 M4
Grid 4 17.8 M4	Grid 5 18.5 M4	Grid 6 18.1 M4
Grid 7 20.7 M4	Grid 8 22.1 M4	Grid 9 21.3 M4



0 dB = 22.1V/m

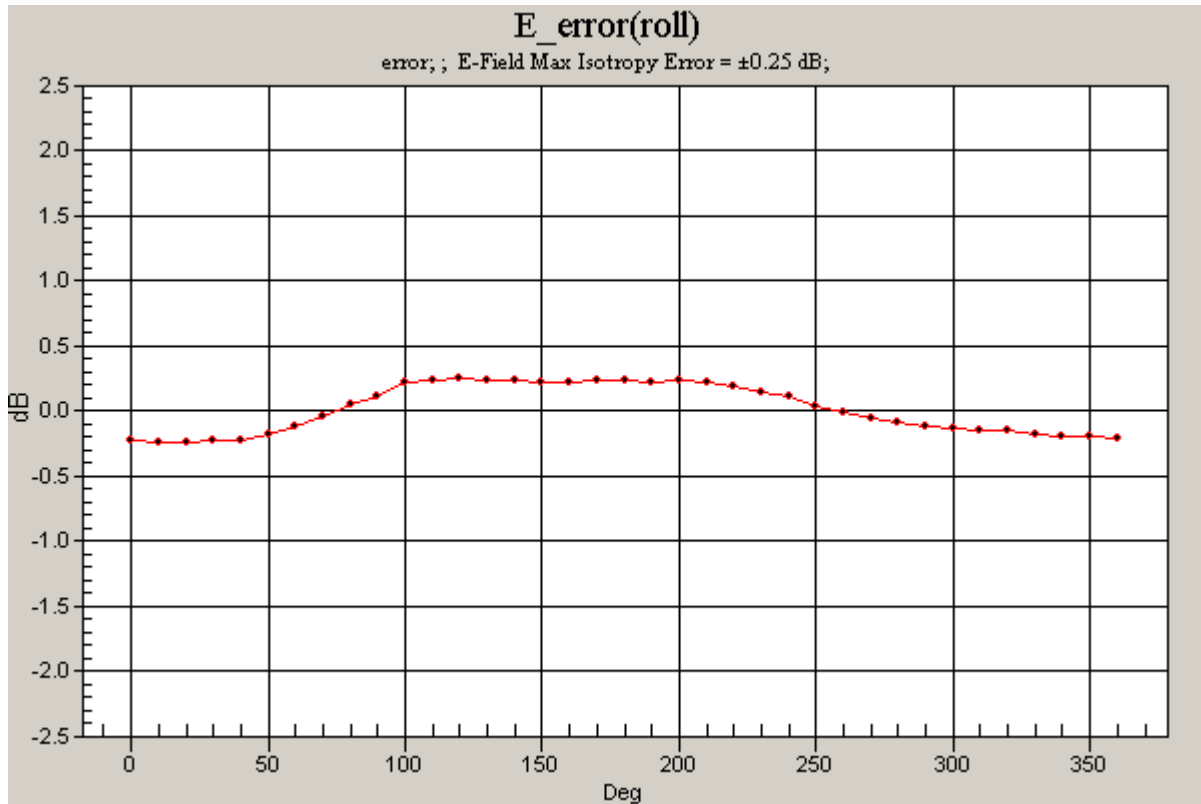
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UMTS1900 HAC_ER_Device

DUT: Intermec; Type: CN50; Serial: 328V0800138

Communication System: UMTS Band II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

E Scan - L-ch/Rotation (1D): 37 rotation steps; E-Field Max Isotropy Error = ± 0.25 dB;



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UMTS1900 HAC_ER_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: UMTS Band II; 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 - M-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 23.9 V/m

Probe Modulation Factor = 0.920

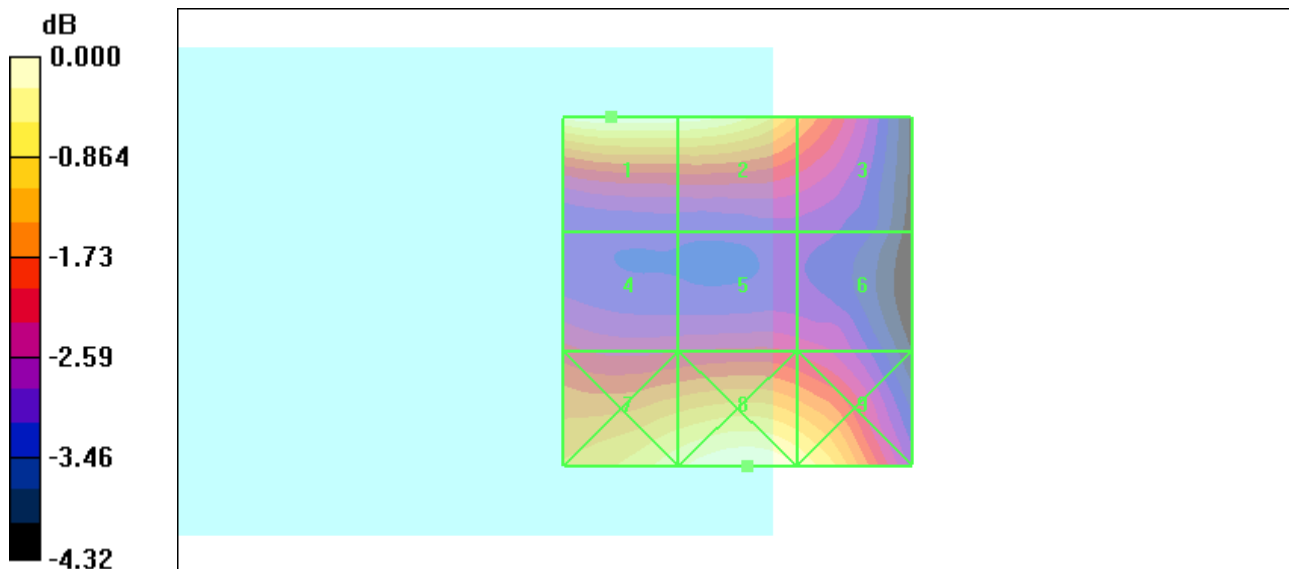
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.9 V/m; Power Drift = -0.065 dB

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

Peak E-field in V/m

Grid 1 23.9 M4	Grid 2 23.7 M4	Grid 3 20.7 M4
Grid 4 18.7 M4	Grid 5 18.6 M4	Grid 6 18.3 M4
Grid 7 23.0 M4	Grid 8 24.0 M4	Grid 9 23.2 M4



0 dB = 24.0V/m

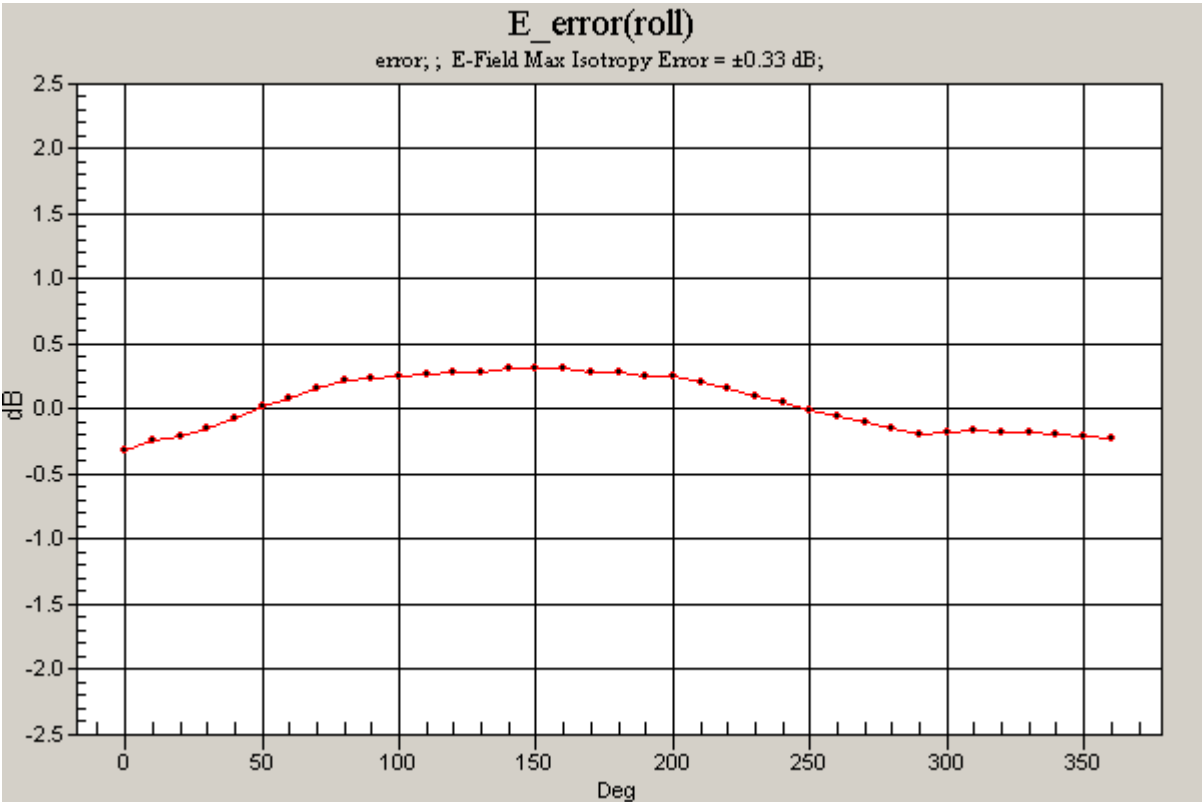
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UMTS1900 HAC_ER_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: UMTS Band II; Frequency: 1880 MHz;Duty Cycle: 1:1

E Scan - M-ch/Rotation (1D): 37 rotation steps; E-Field Max Isotropy Error = ± 0.33 dB;



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UMTS1900 HAC_ER_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: UMTS Band II; Frequency: 1907.6 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 - H-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 21.2 V/m

Probe Modulation Factor = 0.920

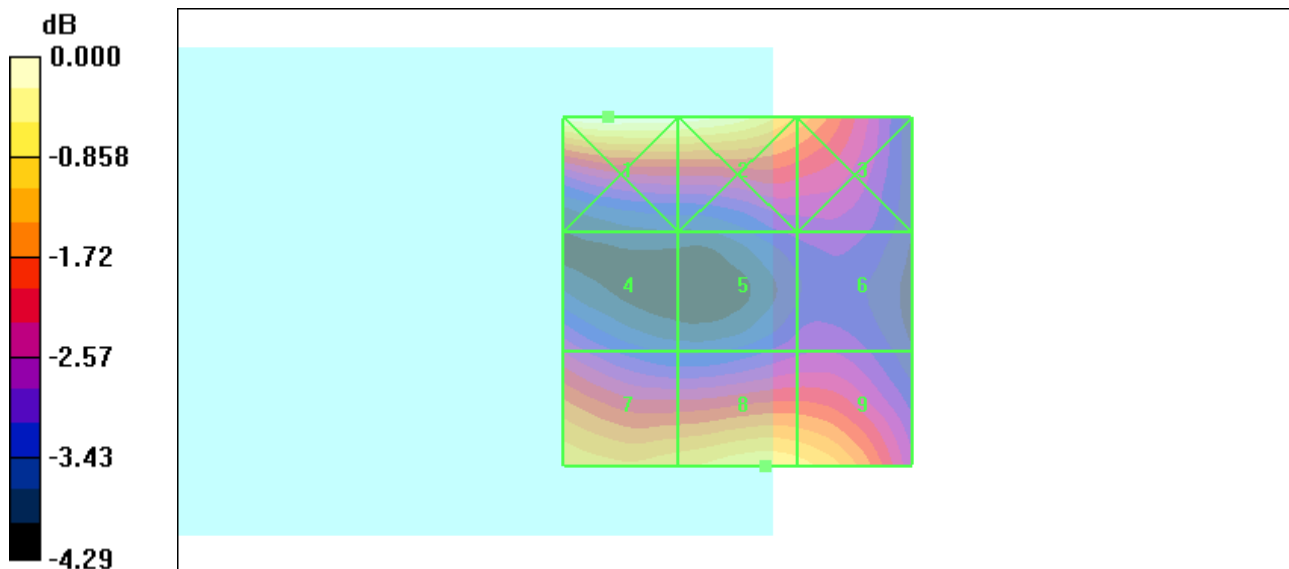
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 17.1 V/m; Power Drift = -0.060 dB

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

Peak E-field in V/m

Grid 1 22.6 M4	Grid 2 22.4 M4	Grid 3 19.7 M4
Grid 4 16.8 M4	Grid 5 16.1 M4	Grid 6 16.3 M4
Grid 7 20.4 M4	Grid 8 21.2 M4	Grid 9 20.9 M4



0 dB = 22.6V/m

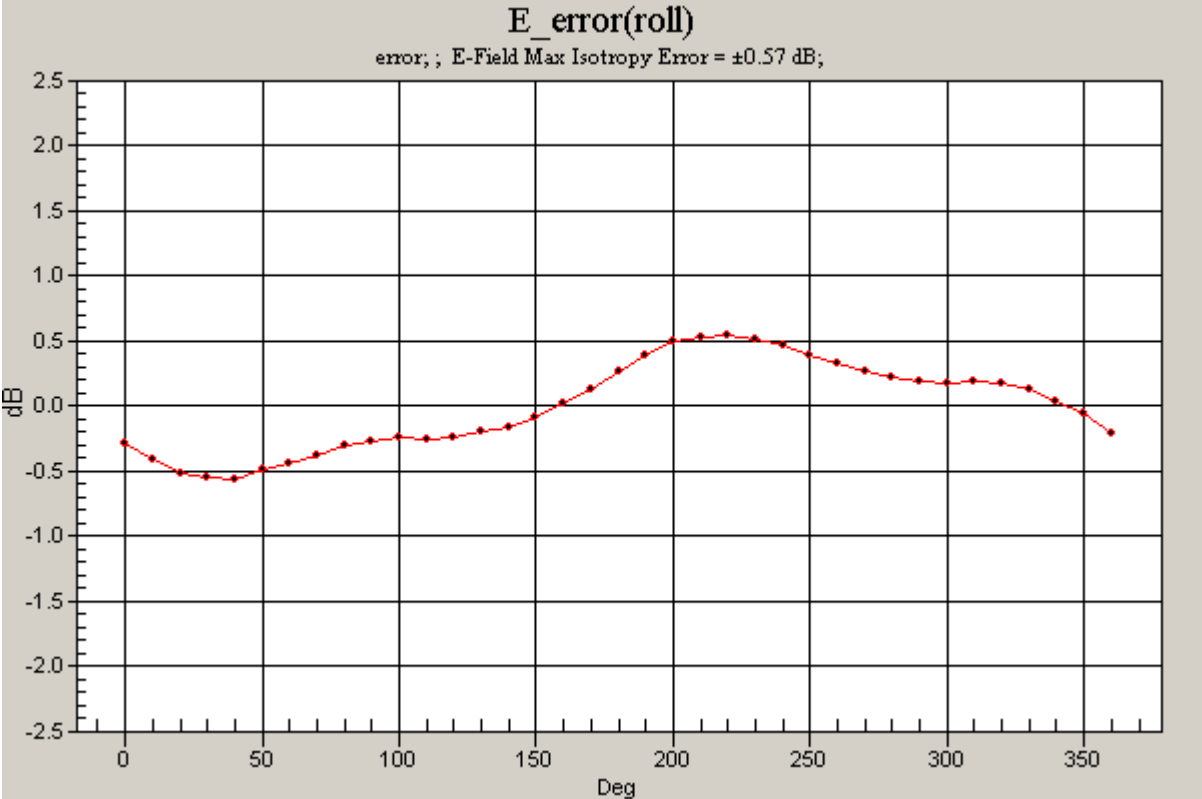
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UMTS1900 HAC_ER_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: UMTS Band II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

E Scan - H-ch/Rotation (1D): 37 rotation steps; E-Field Max Isotropy Error = ± 0.57 dB;



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UMTS1900 HAC_H3DV6_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: UMTS Band II; Frequency: 1852.4 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 - L-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.058 A/m

Probe Modulation Factor = 0.900

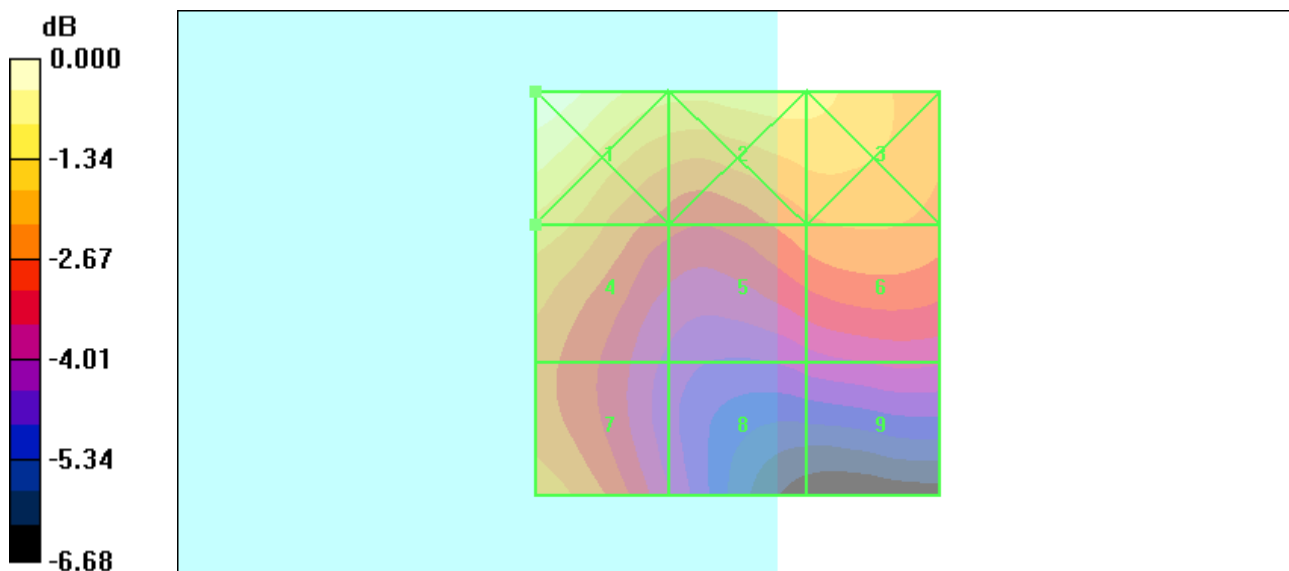
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.059 A/m; Power Drift = 0.059 dB

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

Peak H-field in A/m

Grid 1 0.069 M4	Grid 2 0.061 M4	Grid 3 0.061 M4
Grid 4 0.058 M4	Grid 5 0.053 M4	Grid 6 0.054 M4
Grid 7 0.056 M4	Grid 8 0.044 M4	Grid 9 0.044 M4



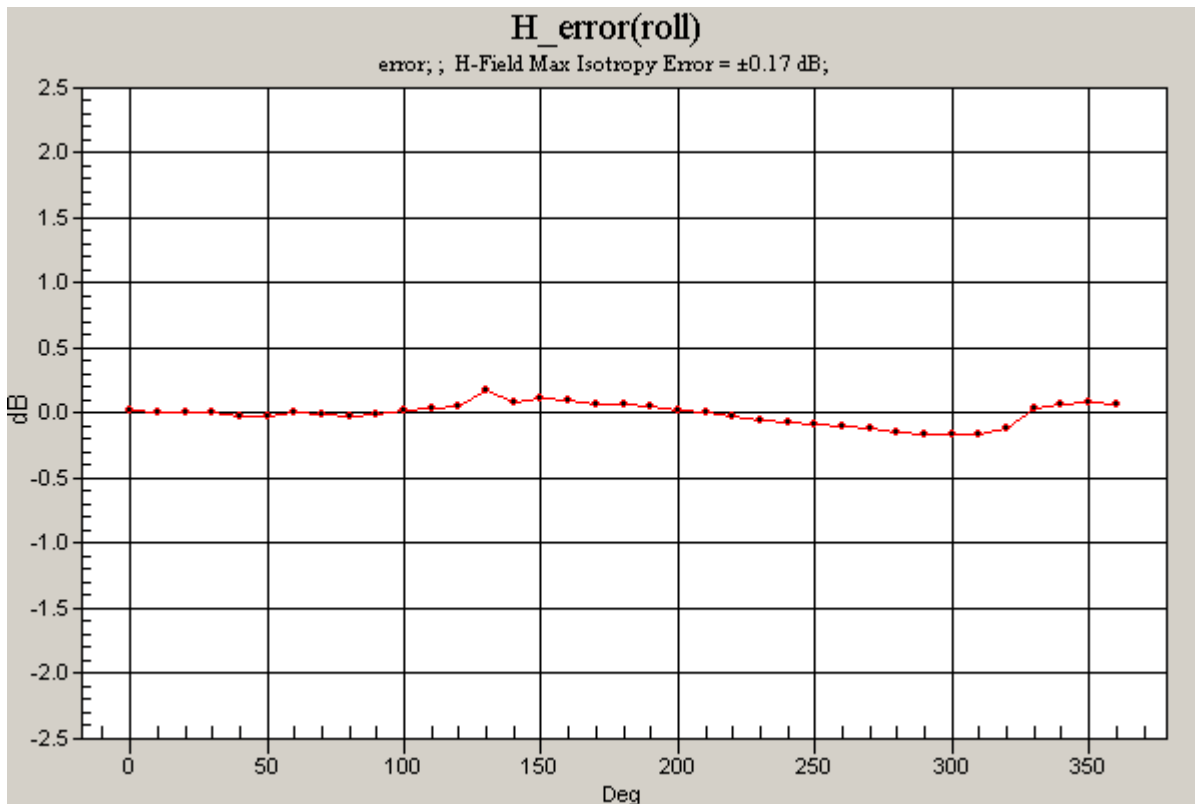
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UMTS1900 HAC_H3DV6_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: UMTS Band II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

H Scan - L-ch/Rotation (1D): 37 rotation steps; H-Field Max Isotropy Error = ± 0.17 dB;



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UMTS1900 HAC_H3DV6_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: UMTS Band II; 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 - M-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.066 A/m

Probe Modulation Factor = 0.900

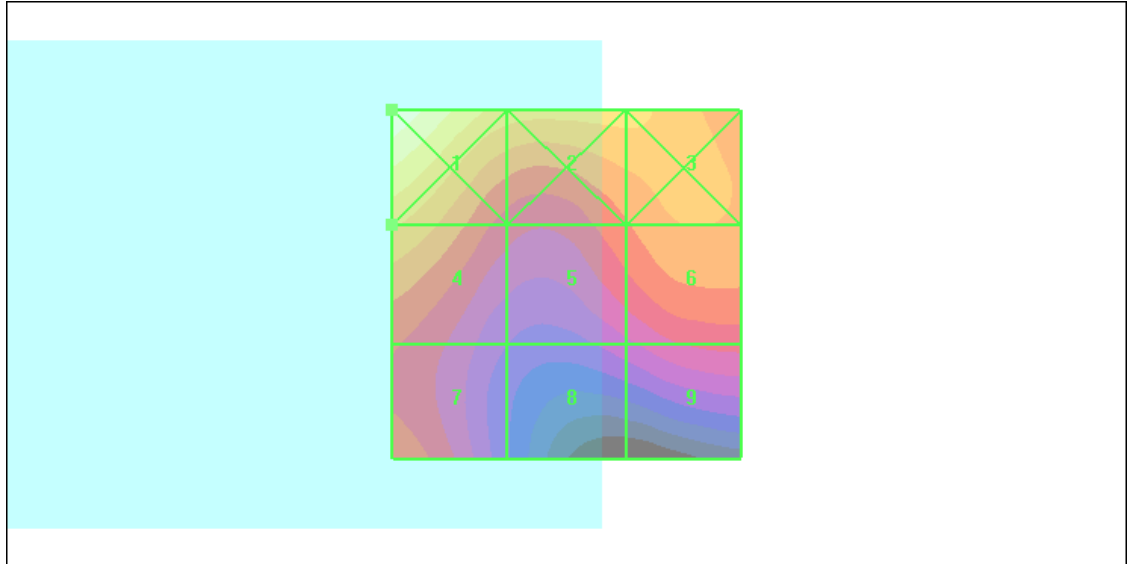
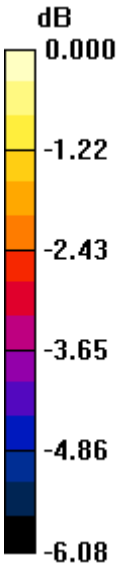
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.068 A/m; Power Drift = -0.006 dB

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

Peak H-field in A/m

Grid 1 0.079 M4	Grid 2 0.068 M4	Grid 3 0.067 M4
Grid 4 0.066 M4	Grid 5 0.059 M4	Grid 6 0.063 M4
Grid 7 0.060 M4	Grid 8 0.051 M4	Grid 9 0.055 M4



0 dB = 0.079A/m

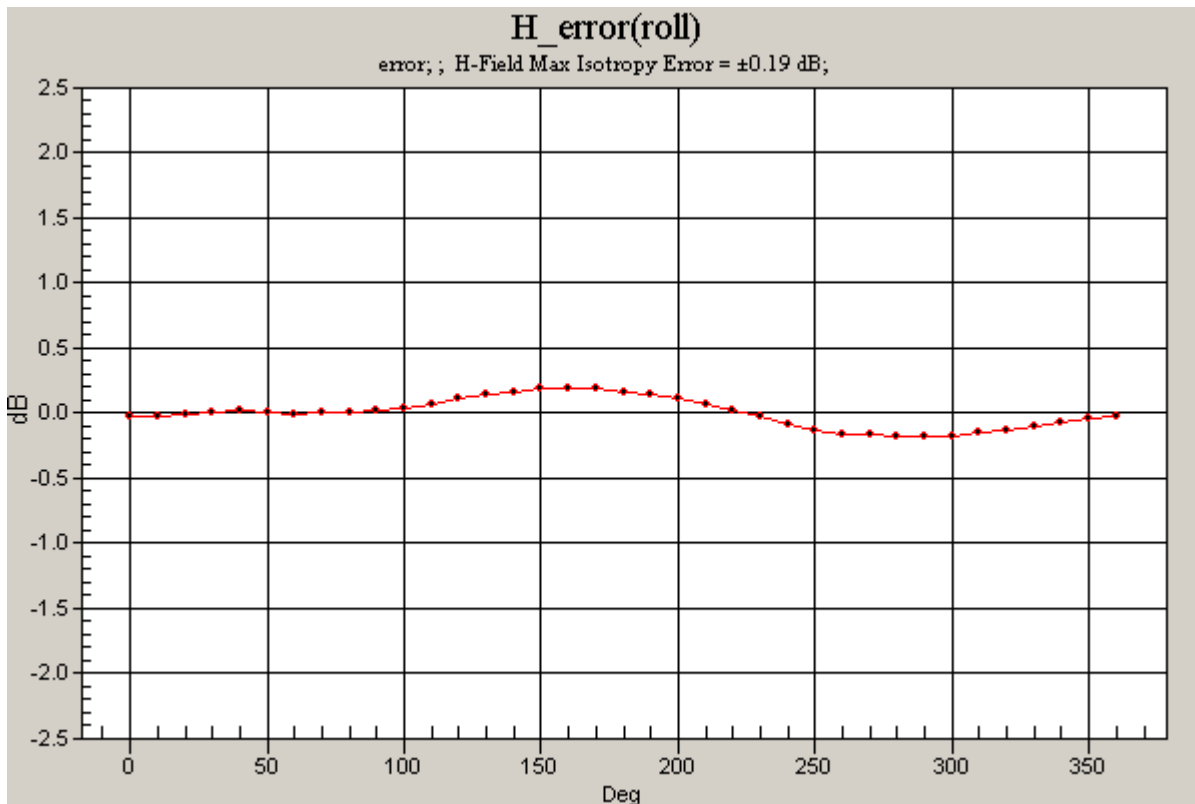
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UMTS1900 HAC_H3DV6_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: UMTS Band II; Frequency: 1880 MHz; Duty Cycle: 1:1

H Scan - M-ch/Rotation (1D): 37 rotation steps; H-Field Max Isotropy Error = ± 0.19 dB;



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UMTS1900 HAC_H3DV6_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: UMTS Band II; Frequency: 1907.6 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 - H-ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.062 A/m

Probe Modulation Factor = 0.900

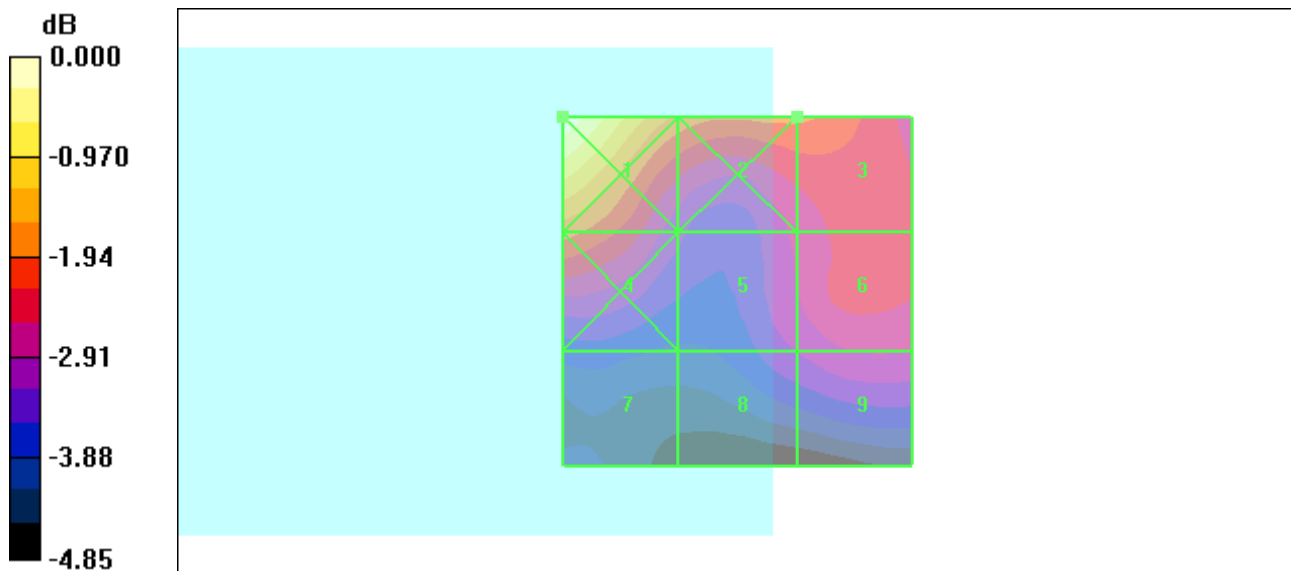
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.066 A/m; Power Drift = -0.072 dB

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

Peak H-field in A/m

Grid 1 0.077 M4	Grid 2 0.064 M4	Grid 3 0.062 M4
Grid 4 0.063 M4	Grid 5 0.056 M4	Grid 6 0.058 M4
Grid 7 0.050 M4	Grid 8 0.053 M4	Grid 9 0.055 M4



0 dB = 0.077A/m

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UMTS1900 HAC_H3DV6_Device

DUT: Intermecc; Type: CN50; Serial: 328V0800138

Communication System: UMTS Band II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

H Scan - H-ch/Rotation (1D): 37 rotation steps; H-Field Max Isotropy Error = ± 0.24 dB;

