

Test Laboratory: Compliance Certification Services

**CDMA1900 HAC\_ER\_Device**

DUT: Intermecc; Type: CN50; Serial: 189V0900141

Communication System: CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 = 26.8 V/m

Probe Modulation Factor = 0.930

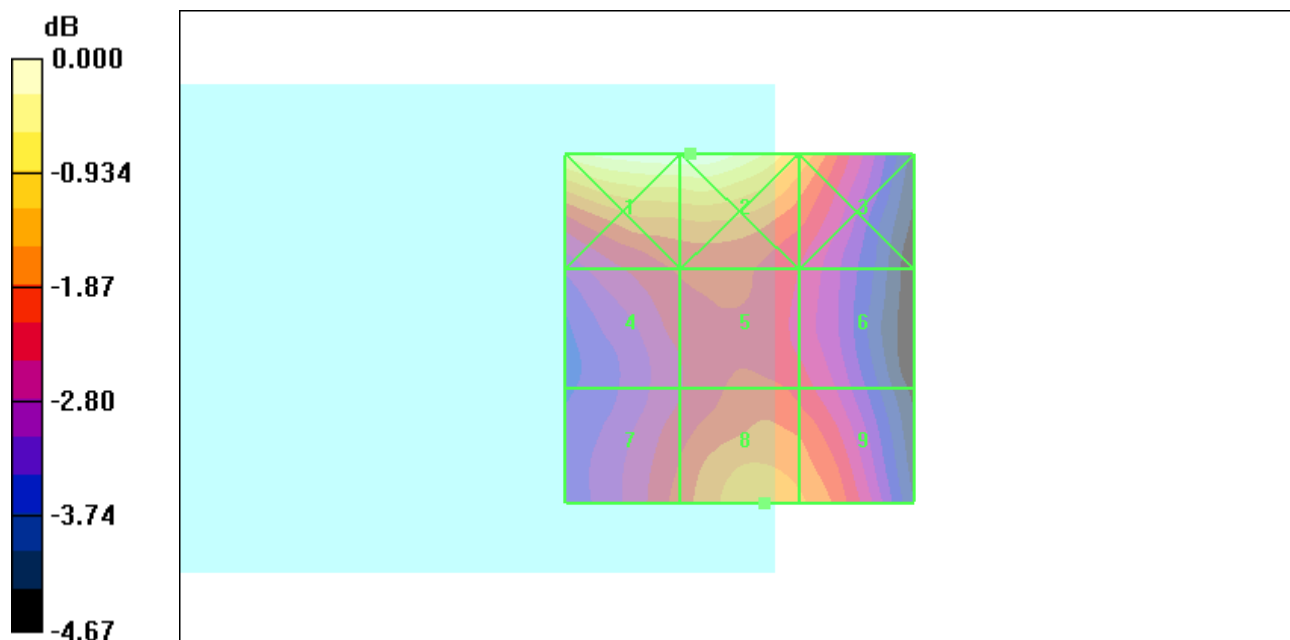
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 30.4 V/m; Power Drift = 0.111 dB

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

Peak E-field in V/m

Grid 1 <b>31.1 M4</b>	Grid 2 <b>31.1 M4</b>	Grid 3 <b>27.0 M4</b>
Grid 4 <b>24.3 M4</b>	Grid 5 <b>24.5 M4</b>	Grid 6 <b>23.9 M4</b>
Grid 7 <b>24.6 M4</b>	Grid 8 <b>26.8 M4</b>	Grid 9 <b>26.3 M4</b>



0 dB = 31.1V/m

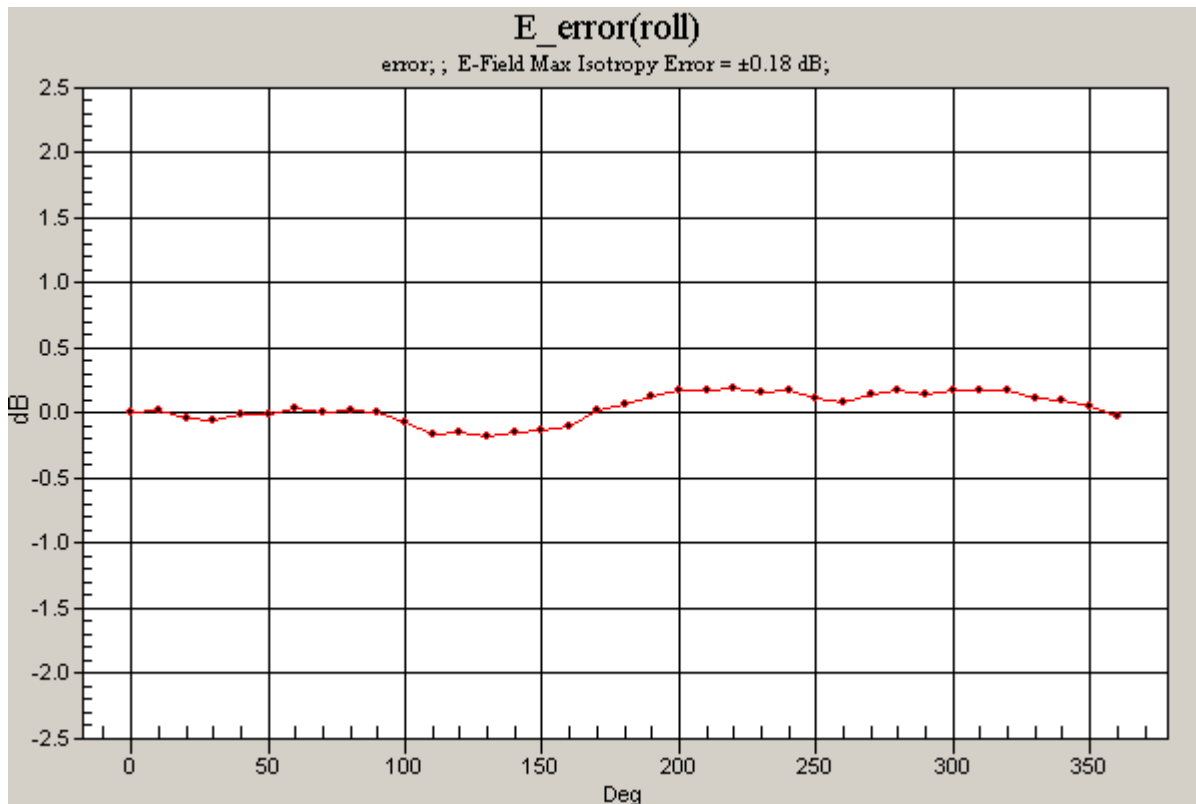
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### CDMA1900 HAC\_ER\_Device

DUT: Intermec; Type: CN50; Serial: 189V0900141

Communication System: CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

**E Scan - L-ch/Rotation (1D):** 37 rotation steps; E-Field Max Isotropy Error =  $\pm 0.18$  dB;



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### CDMA1900 HAC\_ER\_Device

DUT: Intermecc; Type: CN50; Serial: 189V0900141

Communication System: CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 = 29.2 V/m

Probe Modulation Factor = 0.930

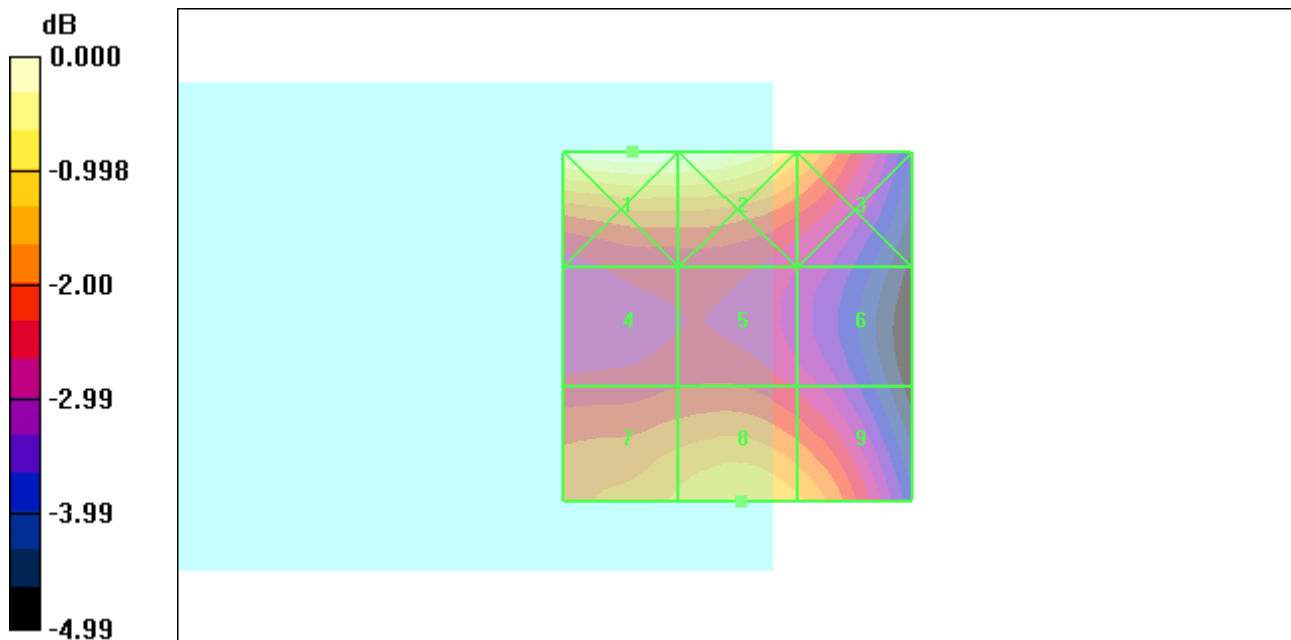
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 30.9 V/m; Power Drift = -0.258 dB

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

Peak E-field in V/m

Grid 1 <b>32.6 M4</b>	Grid 2 <b>32.3 M4</b>	Grid 3 <b>28.6 M4</b>
Grid 4 <b>24.9 M4</b>	Grid 5 <b>25.0 M4</b>	Grid 6 <b>23.9 M4</b>
Grid 7 <b>28.2 M4</b>	Grid 8 <b>29.2 M4</b>	Grid 9 <b>28.3 M4</b>



0 dB = 32.6V/m

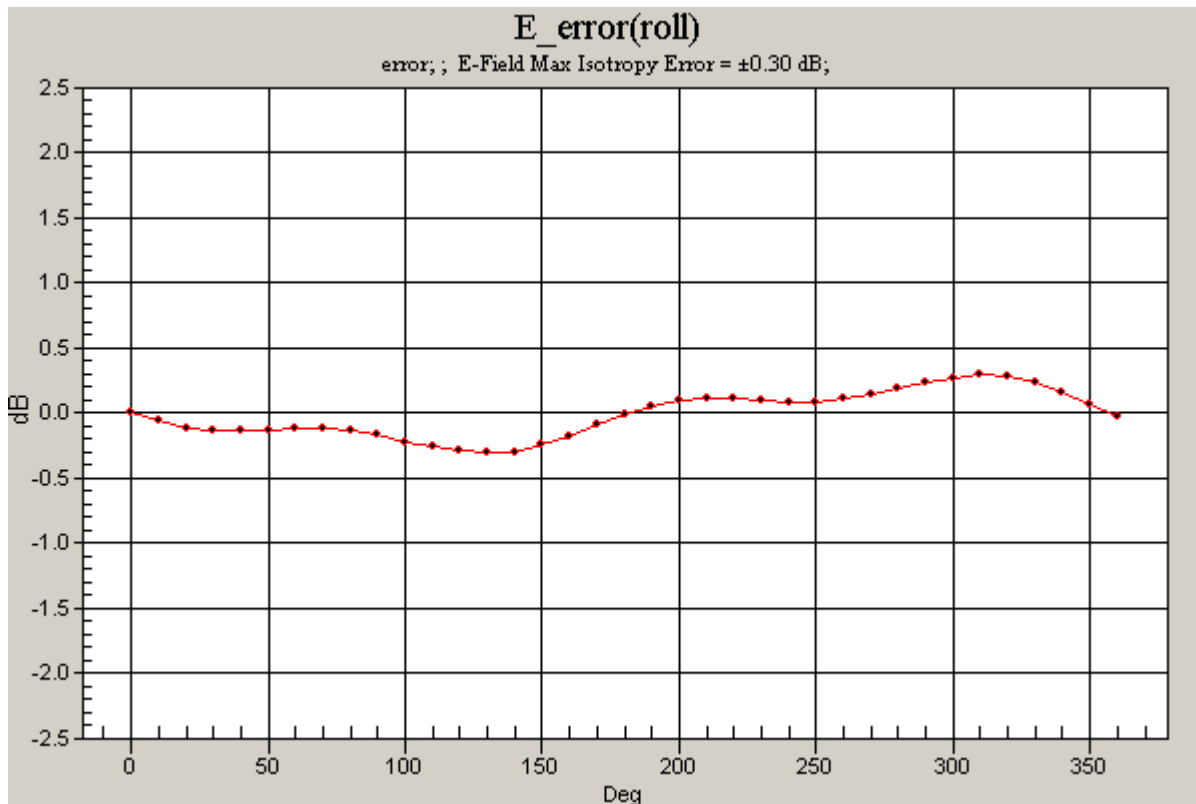
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### CDMA1900 HAC\_ER\_Device

DUT: Intermec; Type: CN50; Serial: 189V0900141

Communication System: CDMA; Frequency: 1880 MHz;Duty Cycle: 1:1

**E Scan - M-ch/Rotation (1D):** 37 rotation steps; E-Field Max Isotropy Error =  $\pm 0.30$  dB;



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### CDMA1900 HAC\_ER\_Device

DUT: Intermecc; Type: CN50; Serial: 189V0900141

Communication System: CDMA; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 = 26.6 V/m

Probe Modulation Factor = 0.930

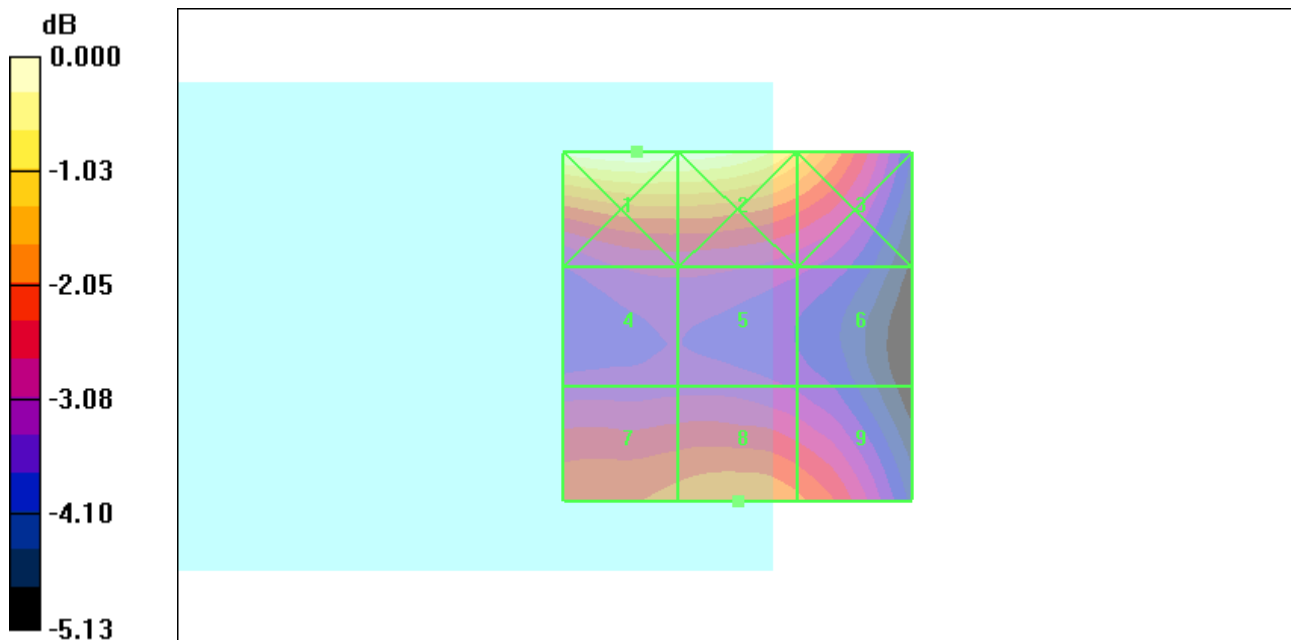
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 26.9 V/m; Power Drift = -0.110 dB

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

Peak E-field in V/m

Grid 1 <b>32.4 M4</b>	Grid 2 <b>32.1 M4</b>	Grid 3 <b>28.5 M4</b>
Grid 4 <b>23.1 M4</b>	Grid 5 <b>23.1 M4</b>	Grid 6 <b>22.2 M4</b>
Grid 7 <b>26.0 M4</b>	Grid 8 <b>26.6 M4</b>	Grid 9 <b>25.9 M4</b>



0 dB = 32.4V/m

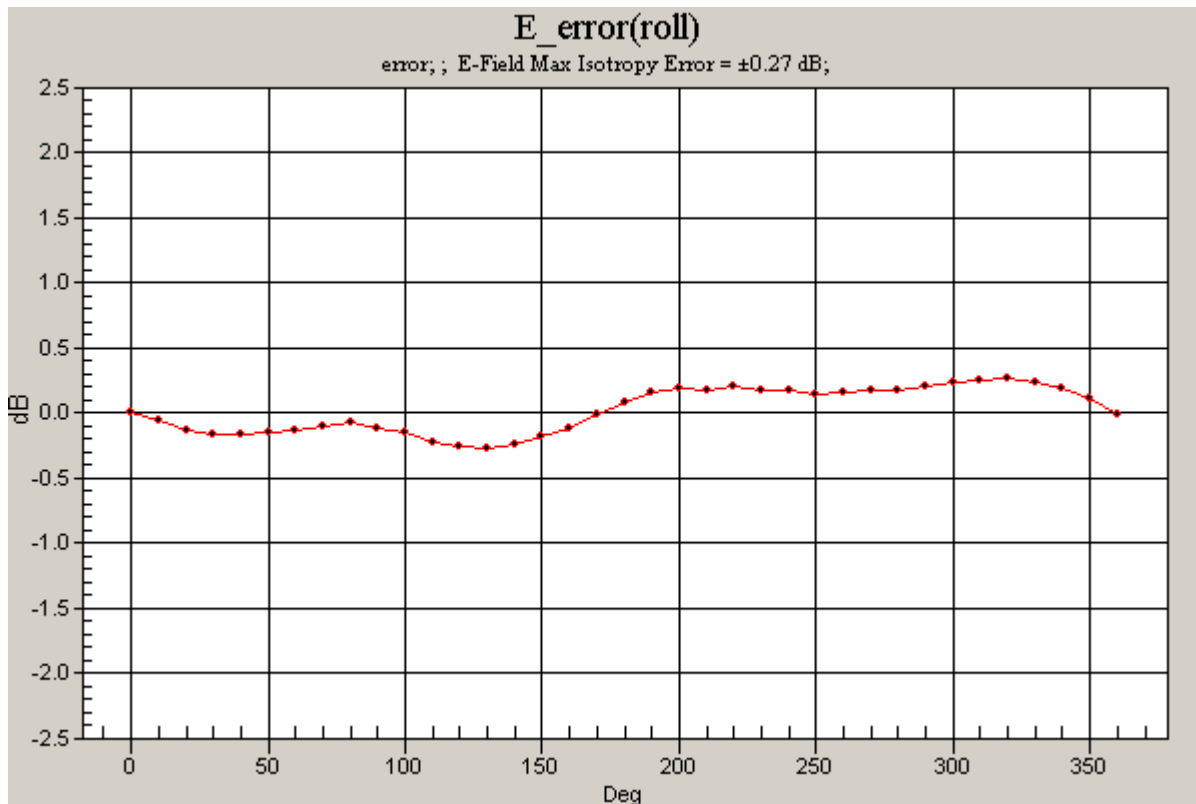
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### CDMA1900 HAC\_ER\_Device

DUT: Intermec; Type: CN50; Serial: 189V0900141

Communication System: CDMA; Frequency: 1908.75 MHz; Duty Cycle: 1:1

**E Scan - H-ch/Rotation (1D):** 37 rotation steps; E-Field Max Isotropy Error =  $\pm 0.27$  dB;



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### CDMA1900 HAC\_H3DV6\_Device

DUT: Intermecc; Type: CN50; Serial: 189V0900141

Communication System: CDMA; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

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 = 0.070 A/m

Probe Modulation Factor = 0.890

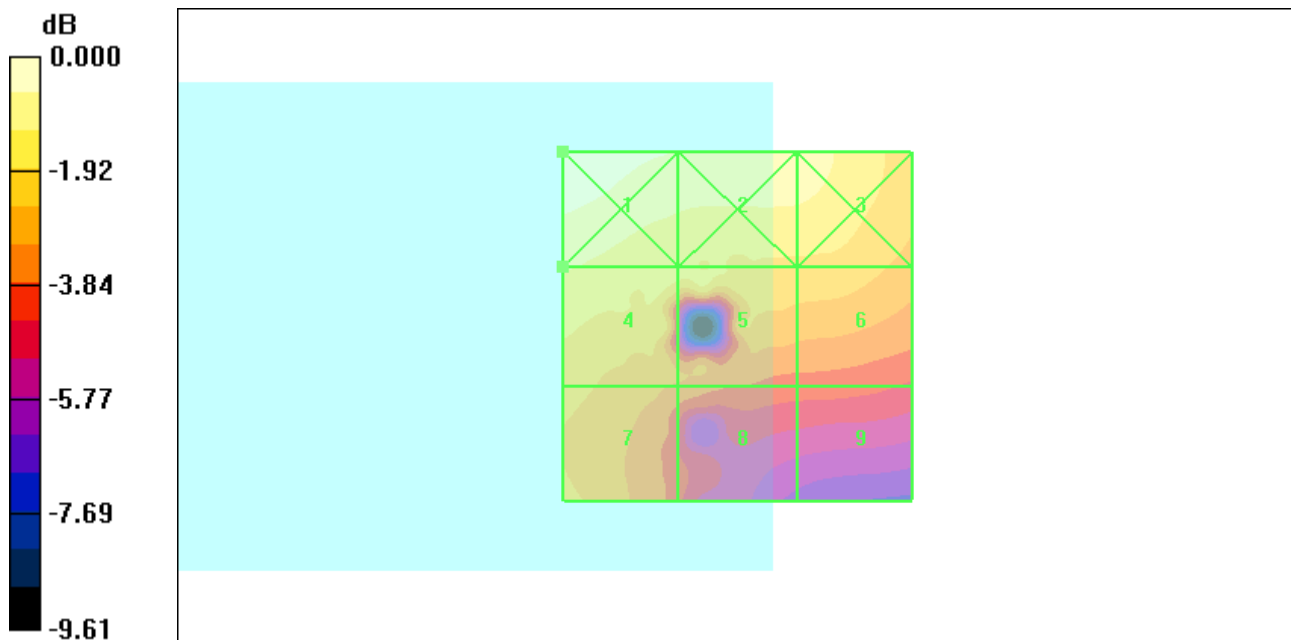
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.075 A/m; Power Drift = 0.024 dB

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

Peak H-field in A/m

Grid 1 <b>0.081 M4</b>	Grid 2 <b>0.075 M4</b>	Grid 3 <b>0.073 M4</b>
Grid 4 <b>0.070 M4</b>	Grid 5 <b>0.067 M4</b>	Grid 6 <b>0.064 M4</b>
Grid 7 <b>0.062 M4</b>	Grid 8 <b>0.056 M4</b>	Grid 9 <b>0.050 M4</b>



0 dB = 0.081A/m

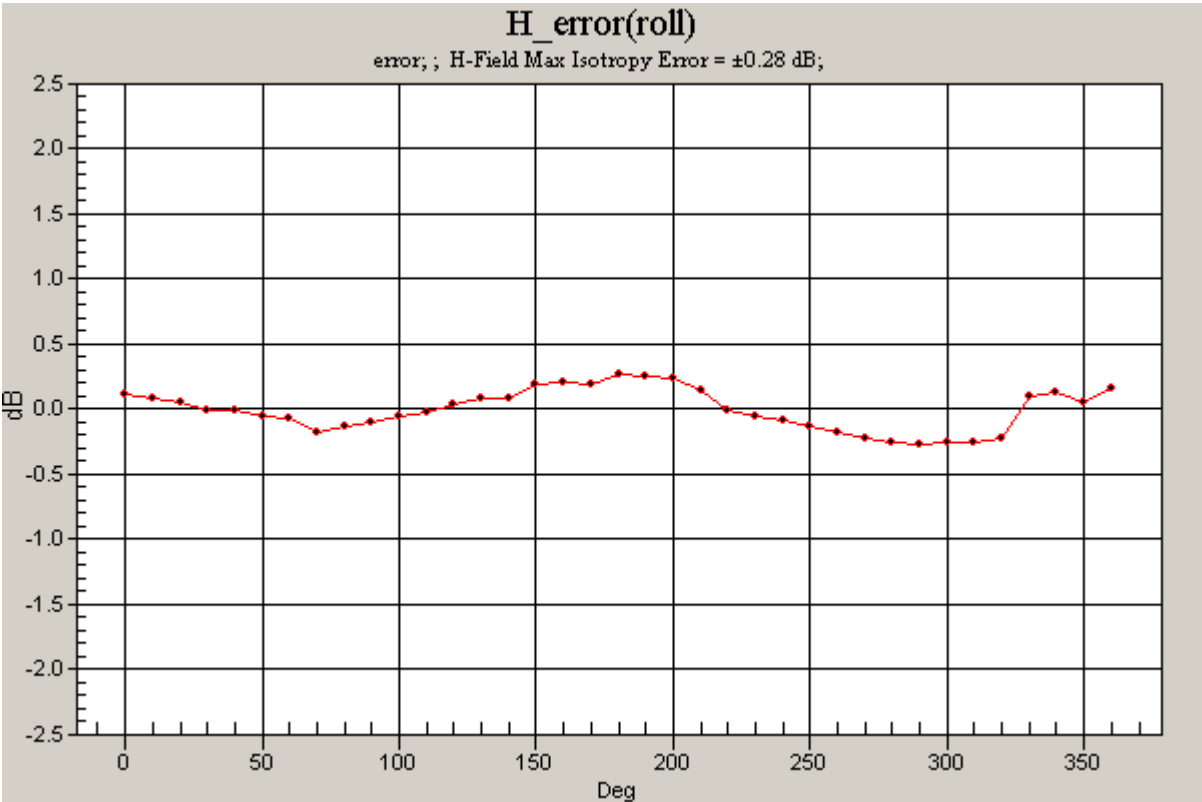
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### CDMA1900 HAC\_H3DV6\_Device

DUT: Intermec; Type: CN50; Serial: 189V0900141

Communication System: CDMA; Frequency: 1851.25 MHz;Duty Cycle: 1:1

H Scan - L-ch/Rotation (1D): 37 rotation steps; H-Field Max Isotropy Error =  $\pm 0.28$  dB;





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### CDMA1900 HAC\_H3DV6\_Device

DUT: Intermecc; Type: CN50; Serial: 189V0900141

Communication System: CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

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 = 0.081 A/m

Probe Modulation Factor = 0.890

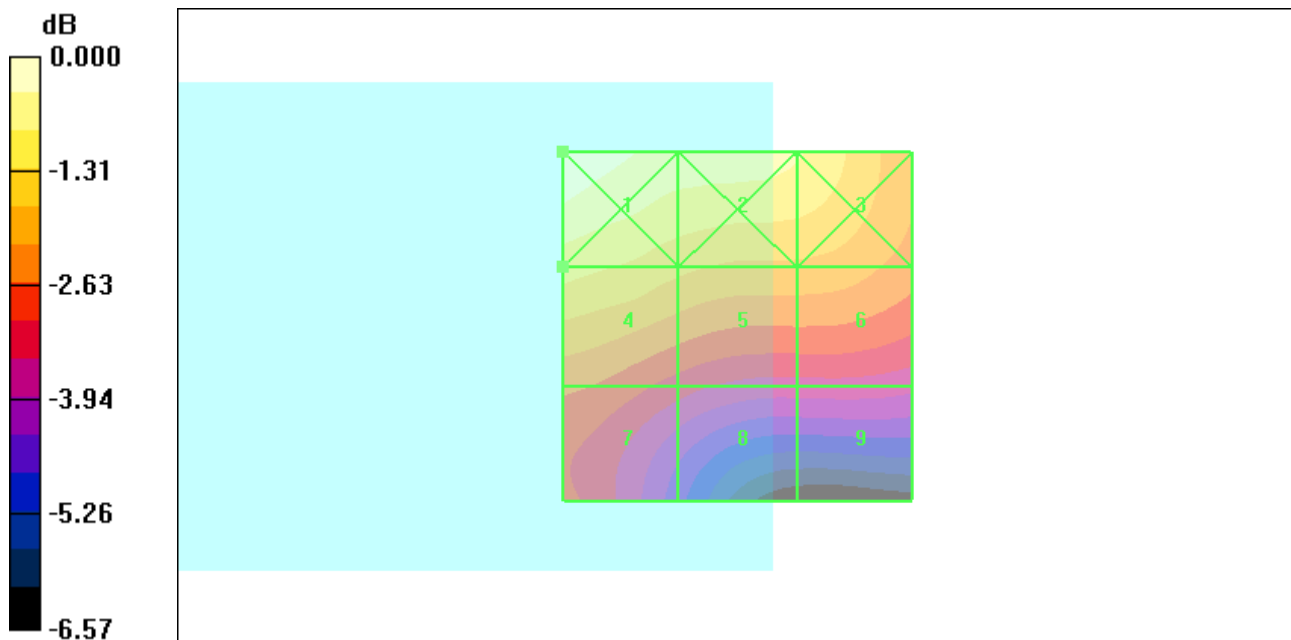
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.089 A/m; Power Drift = -0.254 dB

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

Peak H-field in A/m

Grid 1 <b>0.092 M4</b>	Grid 2 <b>0.086 M4</b>	Grid 3 <b>0.084 M4</b>
Grid 4 <b>0.081 M4</b>	Grid 5 <b>0.076 M4</b>	Grid 6 <b>0.074 M4</b>
Grid 7 <b>0.069 M4</b>	Grid 8 <b>0.063 M4</b>	Grid 9 <b>0.061 M4</b>



0 dB = 0.092A/m

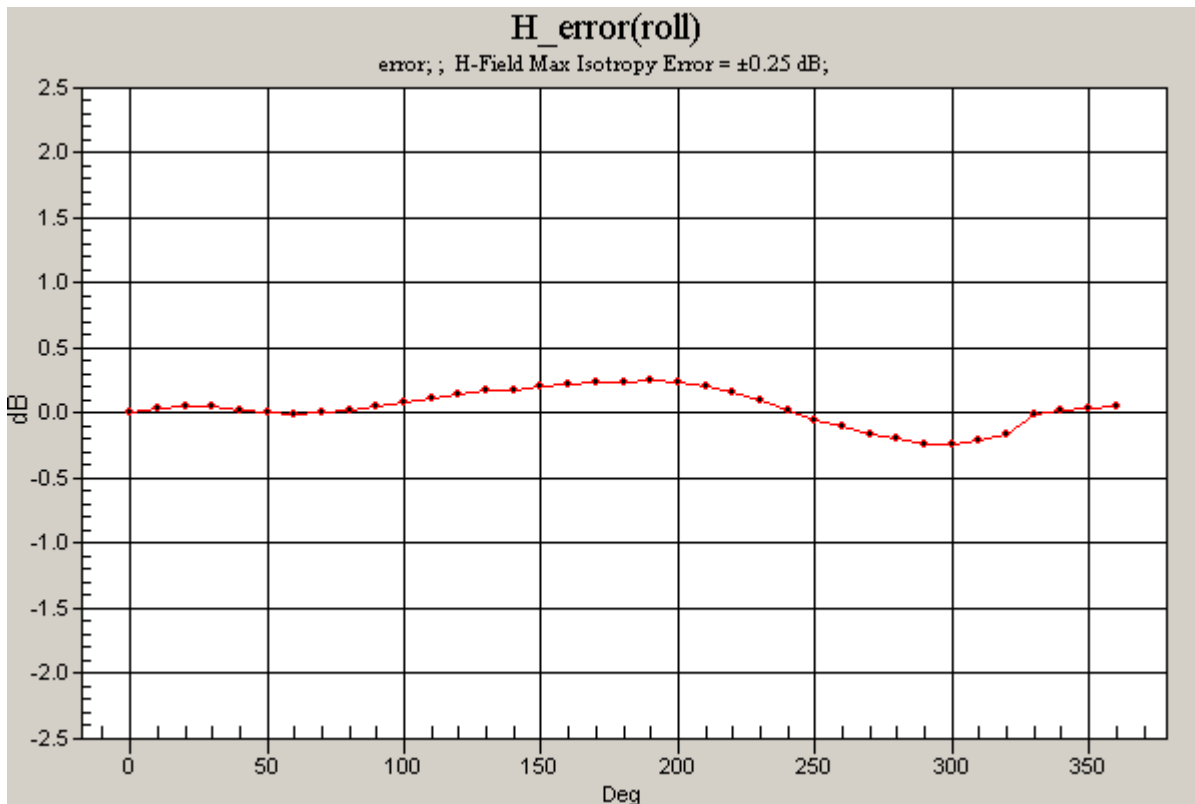
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### CDMA1900 HAC\_H3DV6\_Device

DUT: Intermec; Type: CN50; Serial: 189V0900141

Communication System: CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

**H Scan - M-ch/Rotation (1D):** 37 rotation steps; H-Field Max Isotropy Error =  $\pm 0.25$  dB;



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### CDMA1900 HAC\_H3DV6\_Device

DUT: Intermecc; Type: CN50; Serial: 189V0900141

Communication System: CDMA; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

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 = 0.075 A/m

Probe Modulation Factor = 0.890

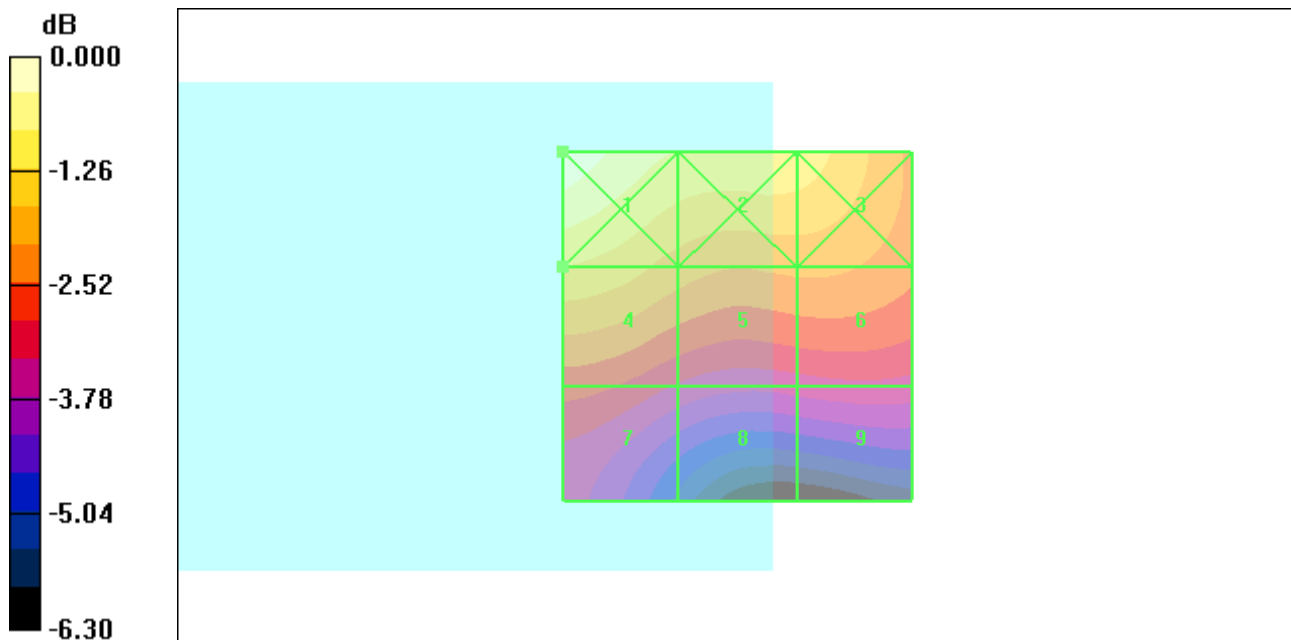
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.081 A/m; Power Drift = -0.121 dB

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

Peak H-field in A/m

Grid 1 <b>0.087 M4</b>	Grid 2 <b>0.079 M4</b>	Grid 3 <b>0.078 M4</b>
Grid 4 <b>0.075 M4</b>	Grid 5 <b>0.070 M4</b>	Grid 6 <b>0.069 M4</b>
Grid 7 <b>0.063 M4</b>	Grid 8 <b>0.059 M4</b>	Grid 9 <b>0.059 M4</b>



0 dB = 0.087A/m

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### CDMA1900 HAC\_H3DV6\_Device

DUT: Intermec; Type: CN50; Serial: 189V0900141

Communication System: CDMA; Frequency: 1908.75 MHz; Duty Cycle: 1:1

**H Scan - H-ch/Rotation (1D):** 37 rotation steps; H-Field Max Isotropy Error =  $\pm 0.22$  dB;

