

## #05 HAC\_E\_GSM850\_Ch128

**DUT: 090827-01**

Communication System: GSM850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 22.6 °C

DASY4 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2011/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH128/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 132.0 V/m

Probe Modulation Factor = 2.64

Reference Value = 49.3 V/m; Power Drift = -0.036 dB

**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak E-field in V/m

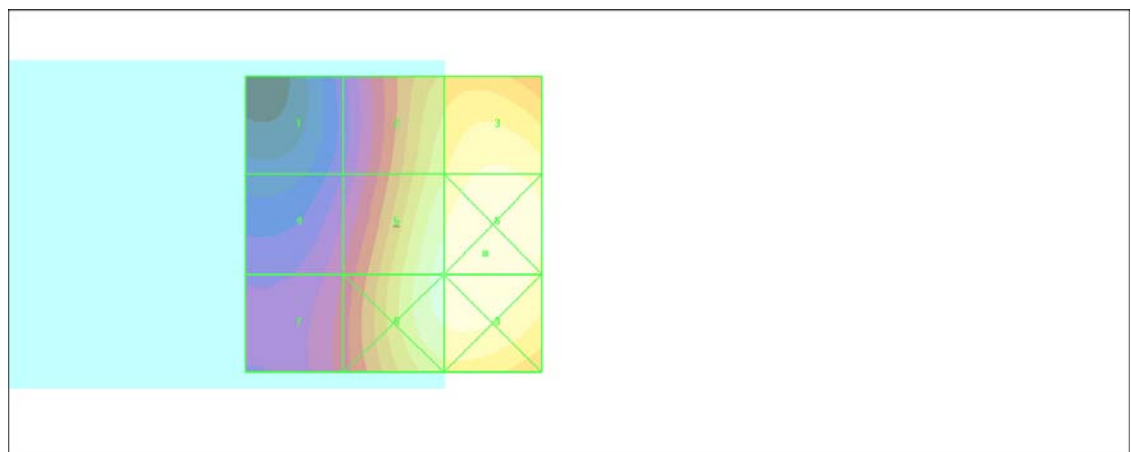
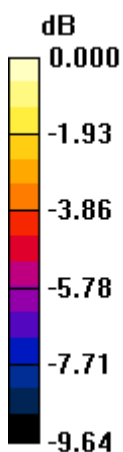
Grid 1 <b>65.9 M4</b>	Grid 2 <b>118.3 M4</b>	Grid 3 <b>129.8 M4</b>
Grid 4 <b>76.8 M4</b>	Grid 5 <b>132.0 M4</b>	Grid 6 <b>137.6 M4</b>
Grid 7 <b>79.8 M4</b>	Grid 8 <b>132.1 M4</b>	Grid 9 <b>137.2 M4</b>

**Cursor:**

Total = 137.6 V/m

E Category: M4

Location: -15.5, 5, 8.7 mm



0 dB = 137.6V/m

## #04 HAC\_E\_GSM850\_Ch189

## DUT: 090827-01

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 22.5 °C

## DASY4 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2011/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH189/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 150.3 V/m

Probe Modulation Factor = 2.64

Reference Value = 55.1 V/m; Power Drift = 0.020 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

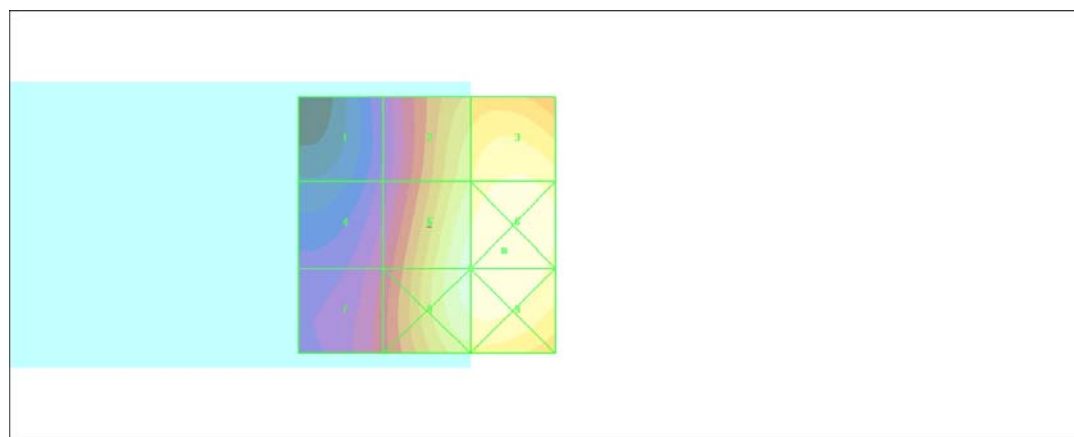
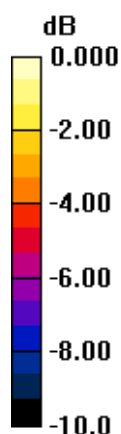
Grid 1 <b>74.9 M4</b>	Grid 2 <b>134.6 M4</b>	Grid 3 <b>146.8 M4</b>
Grid 4 <b>85.5 M4</b>	Grid 5 <b>150.3 M3</b>	Grid 6 <b>156.2 M3</b>
Grid 7 <b>89.3 M4</b>	Grid 8 <b>150.4 M3</b>	Grid 9 <b>155.3 M3</b>

**Cursor:**

Total = 156.2 V/m

E Category: M3

Location: -15, 5, 8.7 mm



0 dB = 156.2V/m

## #06 HAC\_E\_GSM850\_Ch251

## DUT: 090827-01

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 22.4 °C

## DASY4 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2011/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH251/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 159.8 V/m

Probe Modulation Factor = 2.64

Reference Value = 59.7 V/m; Power Drift = -0.030 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

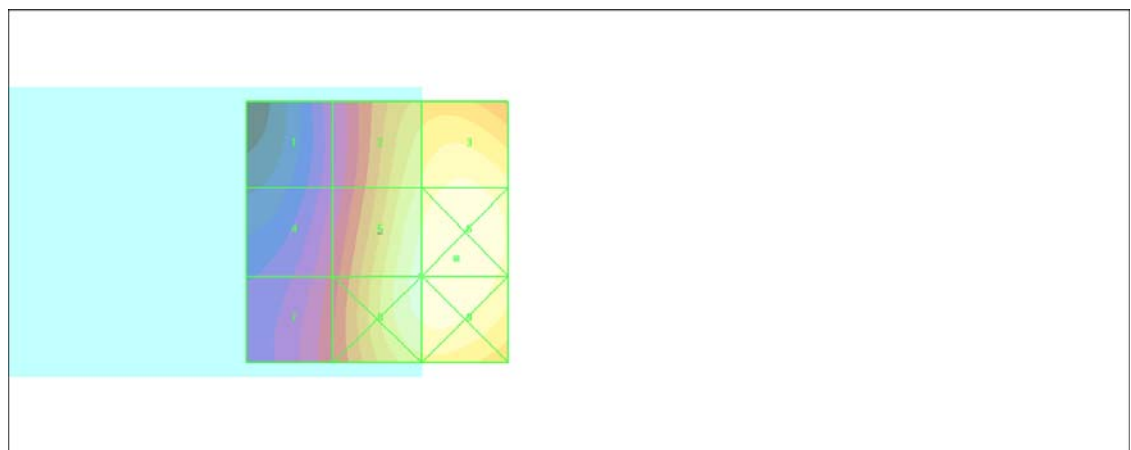
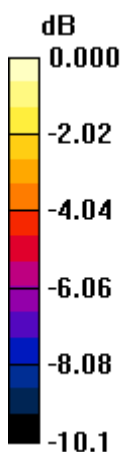
Grid 1 <b>83.0 M4</b>	Grid 2 <b>145.1 M4</b>	Grid 3 <b>156.4 M3</b>
Grid 4 <b>92.5 M4</b>	Grid 5 <b>159.8 M3</b>	Grid 6 <b>166.1 M3</b>
Grid 7 <b>96.2 M4</b>	Grid 8 <b>159.9 M3</b>	Grid 9 <b>165.5 M3</b>

**Cursor:**

Total = 166.1 V/m

E Category: M3

Location: -15, 5, 8.7 mm



0 dB = 166.1 V/m

## #02 HAC\_E\_GSM1900\_Ch512

## DUT: 090827-01

Communication System: PCS; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 22.5 °C

## DASY4 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2011/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH512/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 62.8 V/m

Probe Modulation Factor = 2.70

Reference Value = 24.9 V/m; Power Drift = 0.039 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

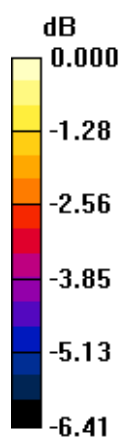
Grid 1 <b>60.4 M3</b>	Grid 2 <b>59.1 M3</b>	Grid 3 <b>58.8 M3</b>
Grid 4 <b>63.6 M3</b>	Grid 5 <b>62.8 M3</b>	Grid 6 <b>57.8 M3</b>
Grid 7 <b>72.3 M3</b>	Grid 8 <b>72.2 M3</b>	Grid 9 <b>59.4 M3</b>

**Cursor:**

Total = 72.3 V/m

E Category: M3

Location: 10.5, 22.5, 8.7 mm



0 dB = 72.3V/m

## #01 HAC\_E\_GSM1900\_Ch661

## DUT: 090827-01

Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 22.4 °C

## DASY4 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2011/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH661/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 60.9 V/m

Probe Modulation Factor = 2.70

Reference Value = 24.9 V/m; Power Drift = -0.046 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

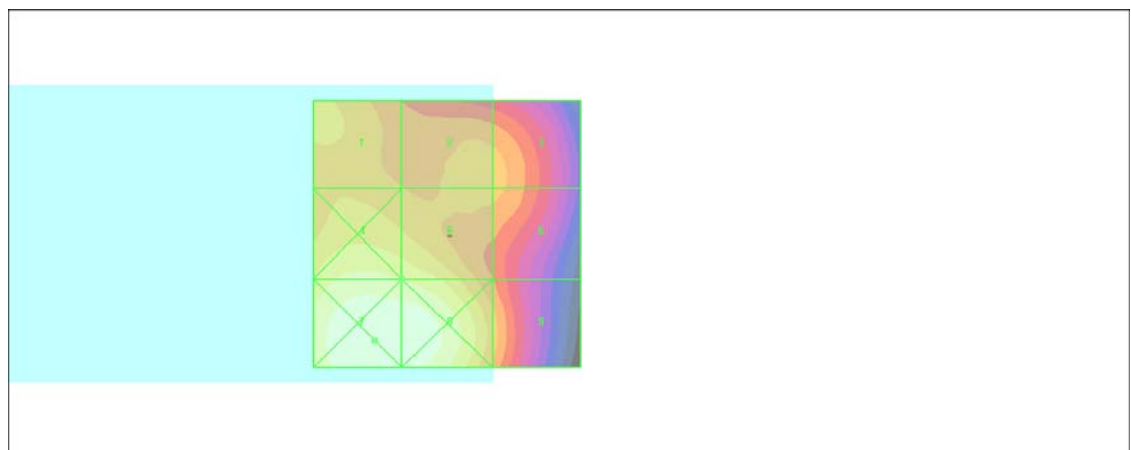
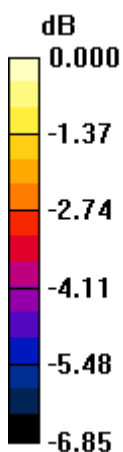
Grid 1 <b>56.2 M3</b>	Grid 2 <b>53.4 M3</b>	Grid 3 <b>53.3 M3</b>
Grid 4 <b>62.2 M3</b>	Grid 5 <b>60.9 M3</b>	Grid 6 <b>53.0 M3</b>
Grid 7 <b>67.7 M3</b>	Grid 8 <b>67.3 M3</b>	Grid 9 <b>53.6 M3</b>

**Cursor:**

Total = 67.7 V/m

E Category: M3

Location: 13.5, 20, 8.7 mm



0 dB = 67.7V/m

## #03 HAC\_E\_GSM1900\_Ch810

## DUT: 090827-01

Communication System: PCS; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 22.5 °C

## DASY4 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2011/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH810/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 59.8 V/m

Probe Modulation Factor = 2.70

Reference Value = 23.4 V/m; Power Drift = -0.065 dB

**Hearing Aid Near-Field Category: M3 (AWF -5 dB)**

Peak E-field in V/m

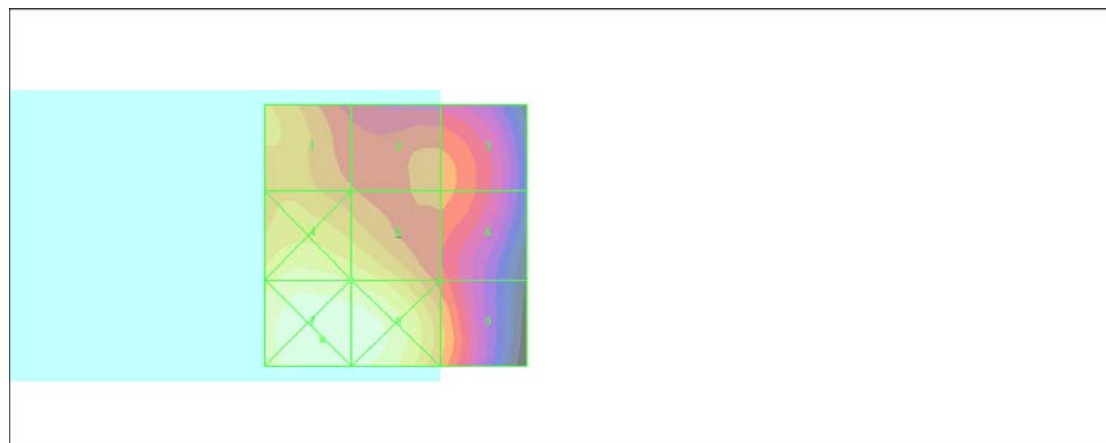
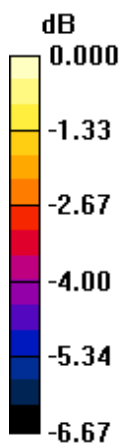
Grid 1 <b>55.1 M3</b>	Grid 2 <b>49.9 M3</b>	Grid 3 <b>49.9 M3</b>
Grid 4 <b>61.7 M3</b>	Grid 5 <b>59.8 M3</b>	Grid 6 <b>49.7 M3</b>
Grid 7 <b>66.5 M3</b>	Grid 8 <b>65.8 M3</b>	Grid 9 <b>52.8 M3</b>

**Cursor:**

Total = 66.5 V/m

E Category: M3

Location: 14, 20, 8.7 mm



0 dB = 66.5V/m

## #11 HAC\_H\_GSM850 Ch128

**DUT: 090827-01**

Communication System: GSM850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 22.4 °C

DASY4 Configuration:

- Probe: H3DV6 - SN6184; ; Calibrated: 2011/1/25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH128/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.229 A/m

Probe Modulation Factor = 1.42

Reference Value = 0.135 A/m; Power Drift = 0.033 dB

**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak H-field in A/m

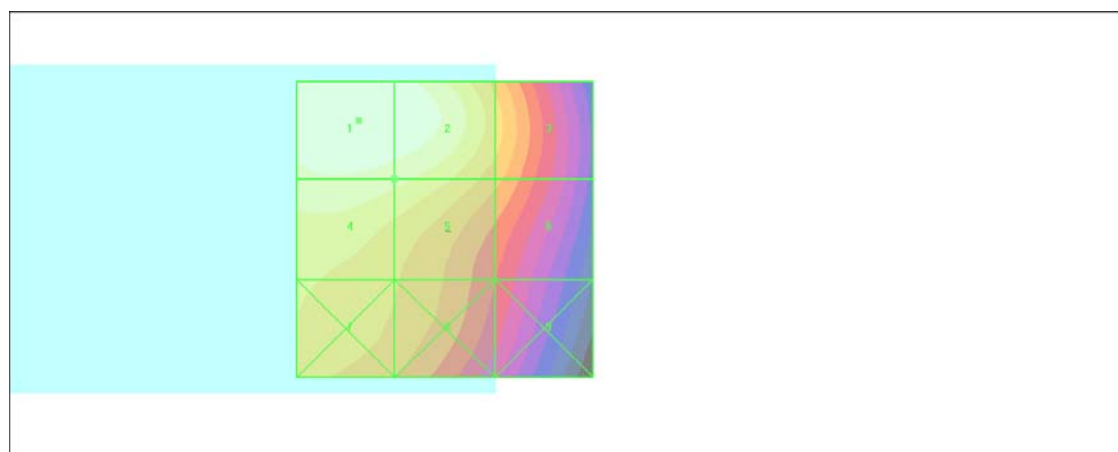
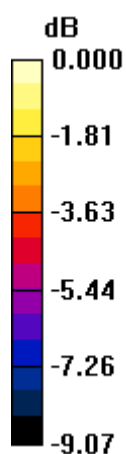
Grid 1 <b>0.229 M4</b>	Grid 2 <b>0.226 M4</b>	Grid 3 <b>0.179 M4</b>
Grid 4 <b>0.212 M4</b>	Grid 5 <b>0.204 M4</b>	Grid 6 <b>0.166 M4</b>
Grid 7 <b>0.188 M4</b>	Grid 8 <b>0.175 M4</b>	Grid 9 <b>0.141 M4</b>

**Cursor:**

Total = 0.229 A/m

H Category: M4

Location: 14.5, -18.5, 9.2 mm



0 dB = 0.229 A/m

**#10 HAC\_H\_GSM850 Ch189****DUT: 090827-01**

Communication System: GSM850; Frequency: 836.4 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 22.5 °C

DASY4 Configuration:

- Probe: H3DV6 - SN6184; ; Calibrated: 2011/1/25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH189/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.258 A/m

Probe Modulation Factor = 1.42

Reference Value = 0.154 A/m; Power Drift = -0.011 dB

**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak H-field in A/m

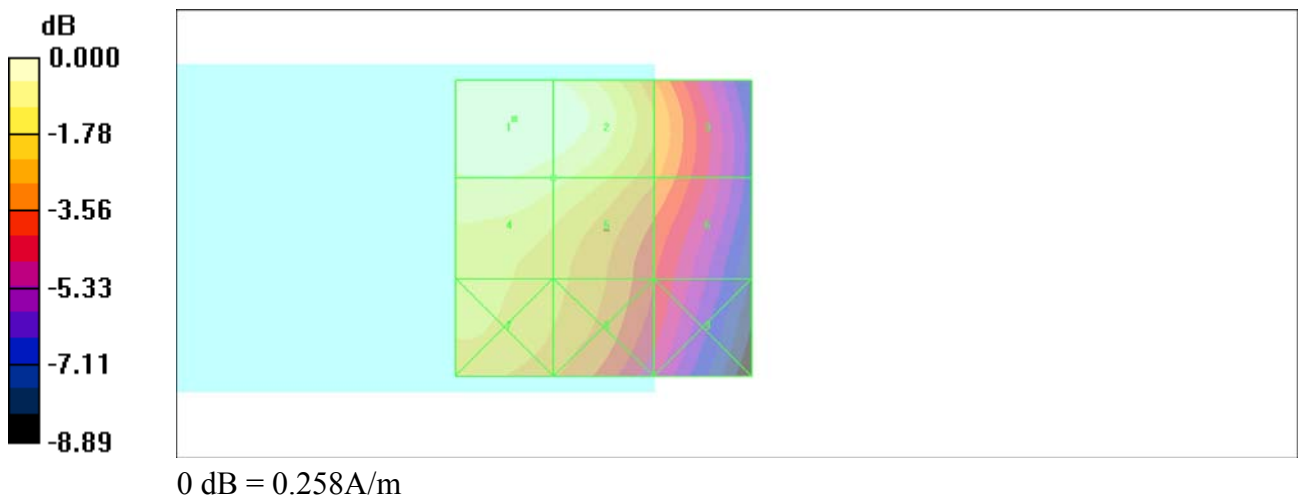
Grid 1 <b>0.258 M4</b>	Grid 2 <b>0.254 M4</b>	Grid 3 <b>0.197 M4</b>
Grid 4 <b>0.242 M4</b>	Grid 5 <b>0.231 M4</b>	Grid 6 <b>0.186 M4</b>
Grid 7 <b>0.217 M4</b>	Grid 8 <b>0.201 M4</b>	Grid 9 <b>0.161 M4</b>

**Cursor:**

Total = 0.258 A/m

H Category: M4

Location: 15, -18.5, 9.2 mm





## #12 HAC\_H\_GSM850 Ch251

**DUT: 090827-01**

Communication System: GSM850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 22.5 °C

DASY4 Configuration:

- Probe: H3DV6 - SN6184; ; Calibrated: 2011/1/25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH251/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.265 A/m

Probe Modulation Factor = 1.42

Reference Value = 0.161 A/m; Power Drift = 0.009 dB

**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak H-field in A/m

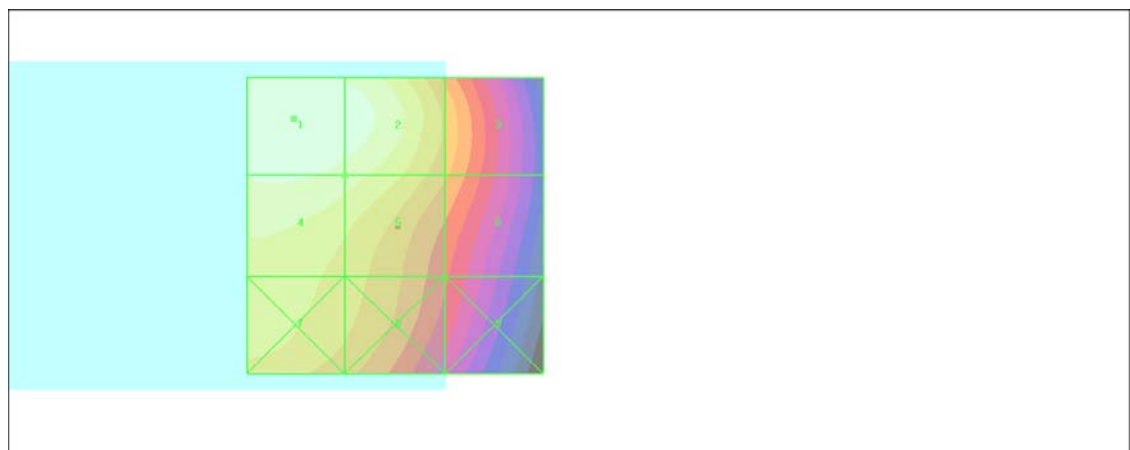
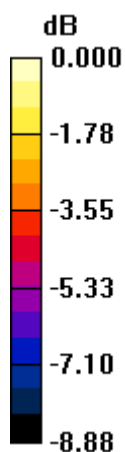
Grid 1 <b>0.265 M4</b>	Grid 2 <b>0.259 M4</b>	Grid 3 <b>0.200 M4</b>
Grid 4 <b>0.251 M4</b>	Grid 5 <b>0.240 M4</b>	Grid 6 <b>0.191 M4</b>
Grid 7 <b>0.227 M4</b>	Grid 8 <b>0.210 M4</b>	Grid 9 <b>0.167 M4</b>

**Cursor:**

Total = 0.265 A/m

H Category: M4

Location: 17, -18, 9.2 mm



0 dB = 0.265 A/m

## #08 HAC\_H\_GSM1900 Ch512

**DUT: 090827-01**

Communication System: PCS; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 22.5 °C

## DASY4 Configuration:

- Probe: H3DV6 - SN6184; ; Calibrated: 2011/1/25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH661/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.126 A/m

Probe Modulation Factor = 1.28

Reference Value = 0.133 A/m; Power Drift = 0.017 dB

**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak H-field in A/m

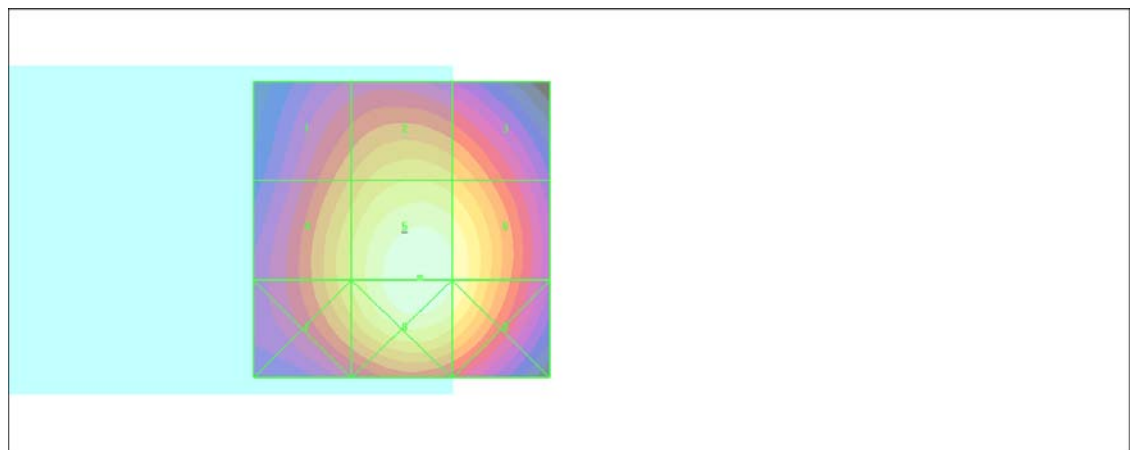
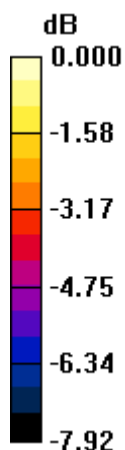
Grid 1 <b>0.094 M4</b>	Grid 2 <b>0.105 M4</b>	Grid 3 <b>0.101 M4</b>
Grid 4 <b>0.106 M4</b>	Grid 5 <b>0.126 M4</b>	Grid 6 <b>0.119 M4</b>
Grid 7 <b>0.105 M4</b>	Grid 8 <b>0.126 M4</b>	Grid 9 <b>0.119 M4</b>

**Cursor:**

Total = 0.126 A/m

H Category: M4

Location: -3, 8, 9.2 mm



0 dB = 0.126A/m

## #07 HAC\_H\_GSM1900 Ch661

**DUT: 090827-01**

Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 22.4 °C

## DASY4 Configuration:

- Probe: H3DV6 - SN6184; ; Calibrated: 2011/1/25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH661/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.105 A/m

Probe Modulation Factor = 1.28

Reference Value = 0.114 A/m; Power Drift = -0.030 dB

**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak H-field in A/m

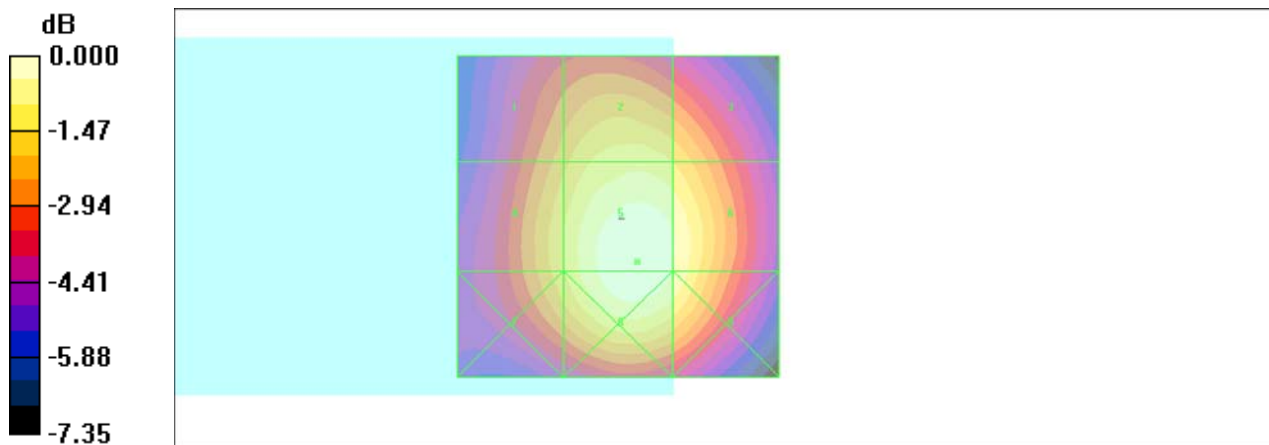
Grid 1 <b>0.082 M4</b>	Grid 2 <b>0.092 M4</b>	Grid 3 <b>0.089 M4</b>
Grid 4 <b>0.089 M4</b>	Grid 5 <b>0.105 M4</b>	Grid 6 <b>0.100 M4</b>
Grid 7 <b>0.088 M4</b>	Grid 8 <b>0.105 M4</b>	Grid 9 <b>0.099 M4</b>

**Cursor:**

Total = 0.105 A/m

H Category: M4

Location: -3, 7, 9.2 mm



0 dB = 0.105 A/m

## #09 HAC\_H\_GSM1900 Ch810

**DUT: 090827-01**

Communication System: PCS; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

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

Ambient Temperature : 22.5 °C

## DASY4 Configuration:

- Probe: H3DV6 - SN6184; ; Calibrated: 2011/1/25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**CH810/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.098 A/m

Probe Modulation Factor = 1.28

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.107 A/m; Power Drift = -0.010 dB

**Hearing Aid Near-Field Category: M4 (AWF -5 dB)**

Peak H-field in A/m

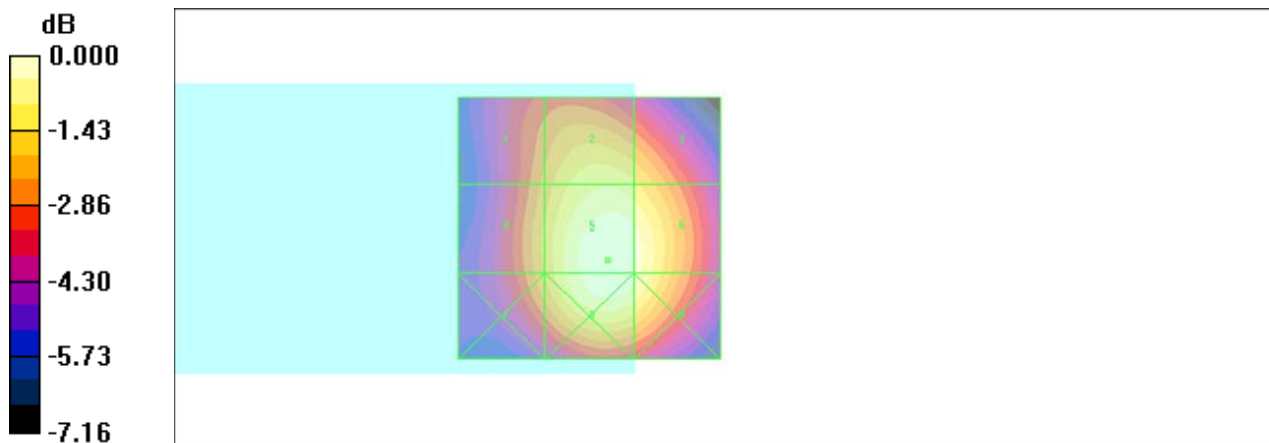
Grid 1 <b>0.076 M4</b>	Grid 2 <b>0.087 M4</b>	Grid 3 <b>0.084 M4</b>
Grid 4 <b>0.080 M4</b>	Grid 5 <b>0.098 M4</b>	Grid 6 <b>0.095 M4</b>
Grid 7 <b>0.079 M4</b>	Grid 8 <b>0.098 M4</b>	Grid 9 <b>0.094 M4</b>

**Cursor:**

Total = 0.098 A/m

H Category: M4

Location: -3.5, 6, 9.2 mm



0 dB = 0.098 A/m