

## HAC RF E-Field WCDMA 1900 Low

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: WCDMA 1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Probe: ER3DV6 - SN2428; ConvF(1, 1, 1)

### E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.19 V/m; Power Drift = 0.03 dB

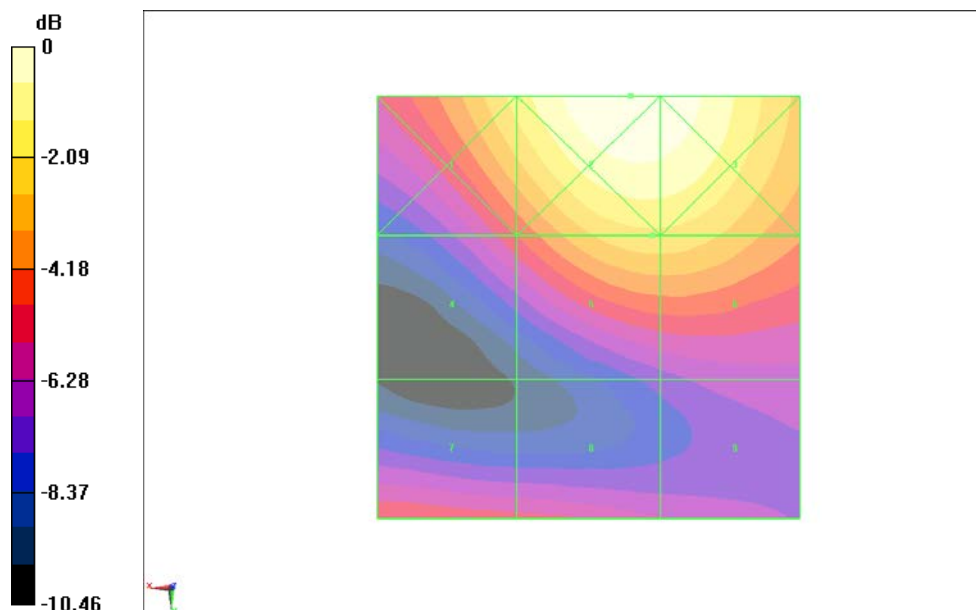
PMR not calibrated. PMF = 1.003 is applied.

E-field emissions = 31.53 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M4<br>33.33 V/m | Grid 2 M4<br>40.94 V/m | Grid 3 M4<br>40.32 V/m |
| Grid 4 M4<br>23.35 V/m | Grid 5 M4<br>31.53 V/m | Grid 6 M4<br>31.50 V/m |
| Grid 7 M4<br>23.25 V/m | Grid 8 M4<br>22.34 V/m | Grid 9 M4<br>20.07 V/m |



0 dB = 40.94 V/m = 32.24 dBV/m

**Fig B.12 HAC RF E-Field WCDMA 1900 Low**

## HAC RF H-Field GSM 850 High

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Probe: H3DV6 - SN6260;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.1020 A/m; Power Drift = 0.03 dB

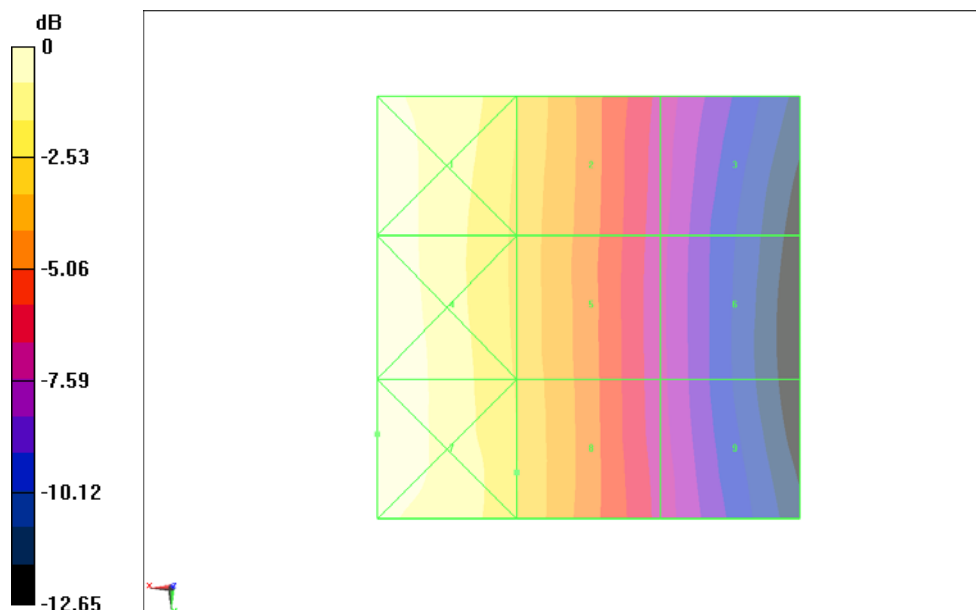
PMR not calibrated. PMF = 2.876 is applied.

H-field emissions = 0.3571 A/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled H-field

|                                      |                                      |                                      |
|--------------------------------------|--------------------------------------|--------------------------------------|
| Grid 1 <b>M3</b><br><b>0.469 A/m</b> | Grid 2 <b>M4</b><br><b>0.356 A/m</b> | Grid 3 <b>M4</b><br><b>0.213 A/m</b> |
| Grid 4 <b>M3</b><br><b>0.470 A/m</b> | Grid 5 <b>M4</b><br><b>0.352 A/m</b> | Grid 6 <b>M4</b><br><b>0.206 A/m</b> |
| Grid 7 <b>M3</b><br><b>0.475 A/m</b> | Grid 8 <b>M4</b><br><b>0.357 A/m</b> | Grid 9 <b>M4</b><br><b>0.212 A/m</b> |



0 dB = 0.4753 A/m = -6.46 dBA/m

**Fig B.13 HAC RF H-Field GSM 850 High**

## HAC RF H-Field GSM 850 Middle

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Probe: H3DV6 - SN6260;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.09300 A/m; Power Drift = 0.02 dB

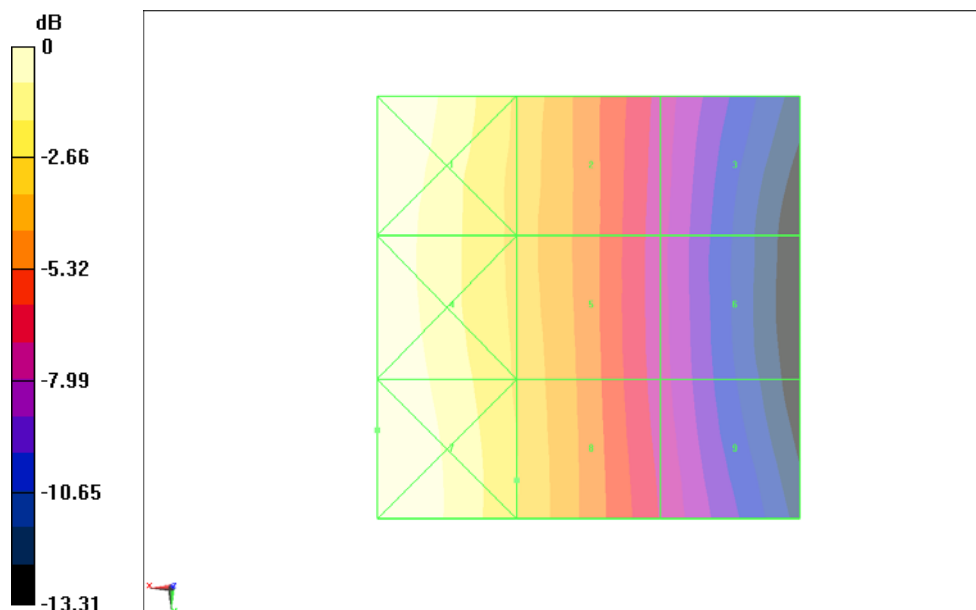
PMR not calibrated. PMF = 2.876 is applied.

H-field emissions = 0.3260 A/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M4<br>0.429 A/m | Grid 2 M4<br>0.319 A/m | Grid 3 M4<br>0.188 A/m |
| Grid 4 M4<br>0.436 A/m | Grid 5 M4<br>0.319 A/m | Grid 6 M4<br>0.184 A/m |
| Grid 7 M4<br>0.440 A/m | Grid 8 M4<br>0.326 A/m | Grid 9 M4<br>0.194 A/m |



0 dB = 0.4397 A/m = -7.14 dBA/m

**Fig B.14 HAC RF H-Field GSM 850 Middle**

## HAC RF H-Field GSM 850 Low

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Probe: H3DV6 - SN6260;

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.08200 A/m; Power Drift = -0.01 dB

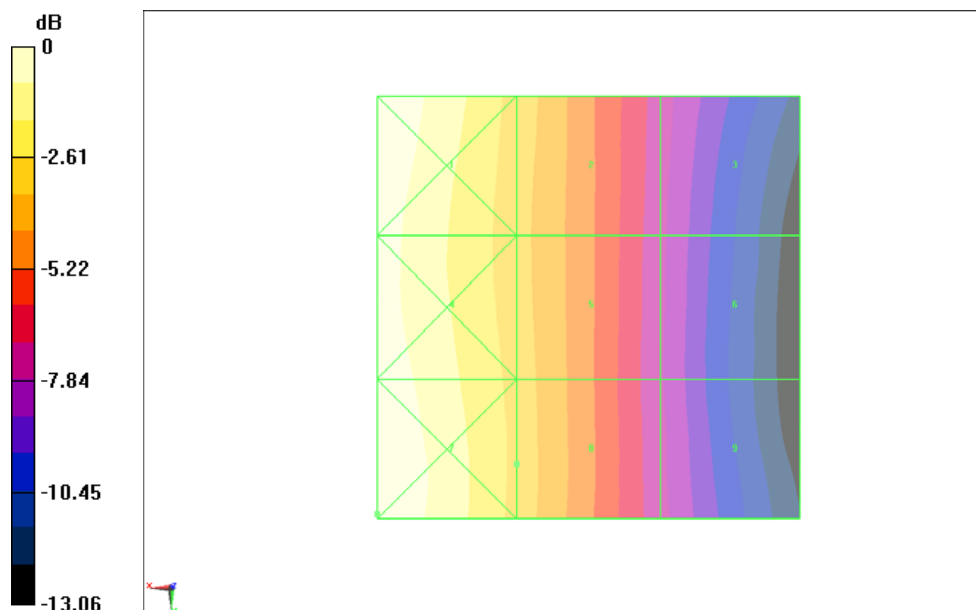
PMR not calibrated. PMF = 2.876 is applied.

H-field emissions = 0.2811 A/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M4<br>0.390 A/m | Grid 2 M4<br>0.278 A/m | Grid 3 M4<br>0.167 A/m |
| Grid 4 M4<br>0.377 A/m | Grid 5 M4<br>0.278 A/m | Grid 6 M4<br>0.164 A/m |
| Grid 7 M4<br>0.391 A/m | Grid 8 M4<br>0.281 A/m | Grid 9 M4<br>0.165 A/m |



0 dB = 0.3910 A/m = -8.16 dBA/m

**Fig B.15 HAC RF H-Field GSM 850 Low**

## HAC RF H-Field GSM 1900 High

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Probe: H3DV6 - SN6260;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.06000 A/m; Power Drift = 0.04 dB

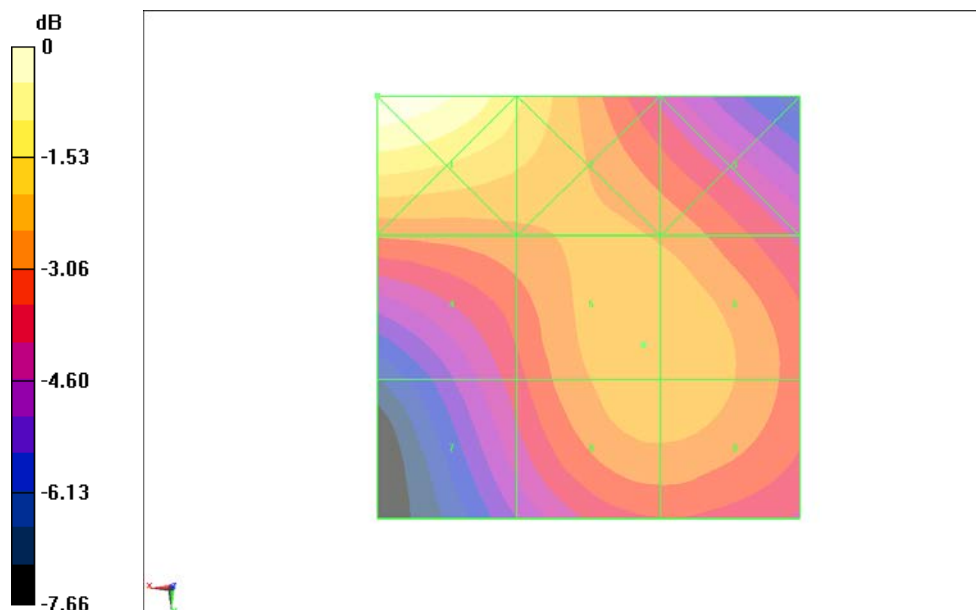
PMR not calibrated. PMF = 2.865 is applied.

H-field emissions = 0.1604 A/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M3<br>0.203 A/m | Grid 2 M3<br>0.173 A/m | Grid 3 M3<br>0.150 A/m |
| Grid 4 M3<br>0.150 A/m | Grid 5 M3<br>0.160 A/m | Grid 6 M3<br>0.160 A/m |
| Grid 7 M4<br>0.132 A/m | Grid 8 M3<br>0.159 A/m | Grid 9 M3<br>0.159 A/m |



0 dB = 0.2033 A/m = -13.84 dBA/m

**Fig B.16 HAC RF H-Field GSM 1900 High**

## HAC RF H-Field GSM 1900 Middle

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Probe: H3DV6 - SN6260;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.05900 A/m; Power Drift = -0.02 dB

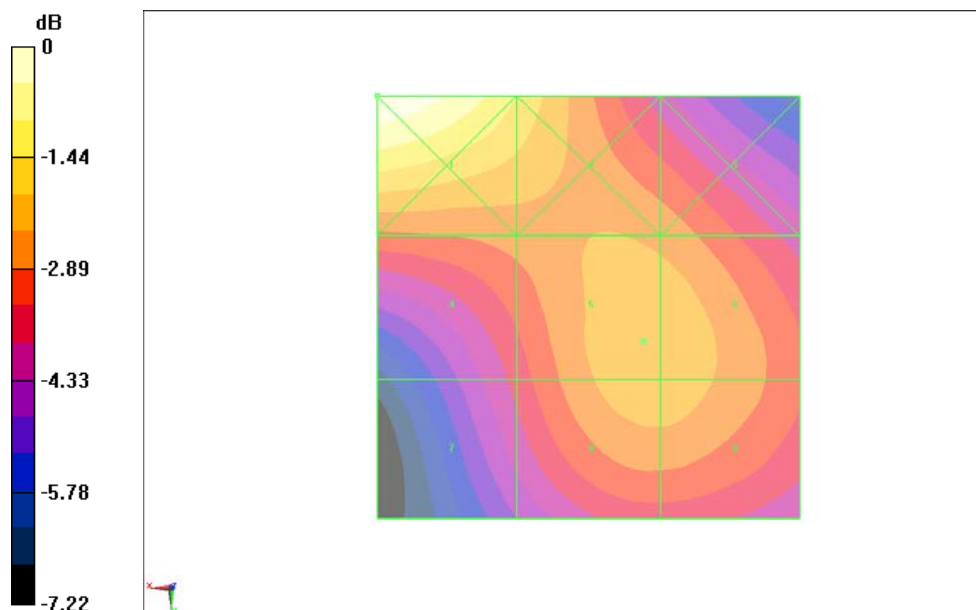
PMR not calibrated. PMF = 2.865 is applied.

H-field emissions = 0.1563 A/m

Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M3<br>0.197 A/m | Grid 2 M3<br>0.167 A/m | Grid 3 M3<br>0.147 A/m |
| Grid 4 M3<br>0.145 A/m | Grid 5 M3<br>0.156 A/m | Grid 6 M3<br>0.156 A/m |
| Grid 7 M4<br>0.129 A/m | Grid 8 M3<br>0.155 A/m | Grid 9 M3<br>0.155 A/m |



0 dB = 0.1970 A/m = -14.11 dBA/m

Fig B.17 HAC RF H-Field GSM 1900 Middle

## HAC RF H-Field GSM 1900 Low

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Probe: H3DV6 - SN6260;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.06000 A/m; Power Drift = 0.06 dB

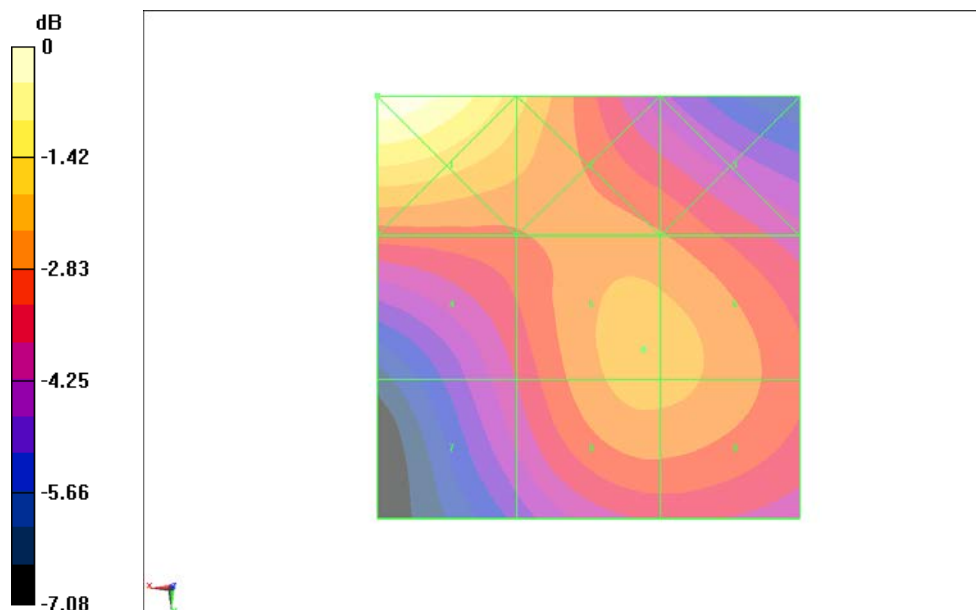
PMR not calibrated. PMF = 2.865 is applied.

H-field emissions = 0.1586 A/m

Near-field category: M3 (AWF -5 dB)

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M3<br>0.202 A/m | Grid 2 M3<br>0.167 A/m | Grid 3 M3<br>0.147 A/m |
| Grid 4 M3<br>0.145 A/m | Grid 5 M3<br>0.159 A/m | Grid 6 M3<br>0.158 A/m |
| Grid 7 M4<br>0.132 A/m | Grid 8 M3<br>0.158 A/m | Grid 9 M3<br>0.157 A/m |



0 dB = 0.2023 A/m = -13.88 dBA/m

Fig B.18 HAC RF H-Field GSM 1900 Low

## HAC RF H-Field WCDMA 850 High

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: WCDMA 850; Frequency: 846.6 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6260;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.09200 A/m; Power Drift = 0.01 dB

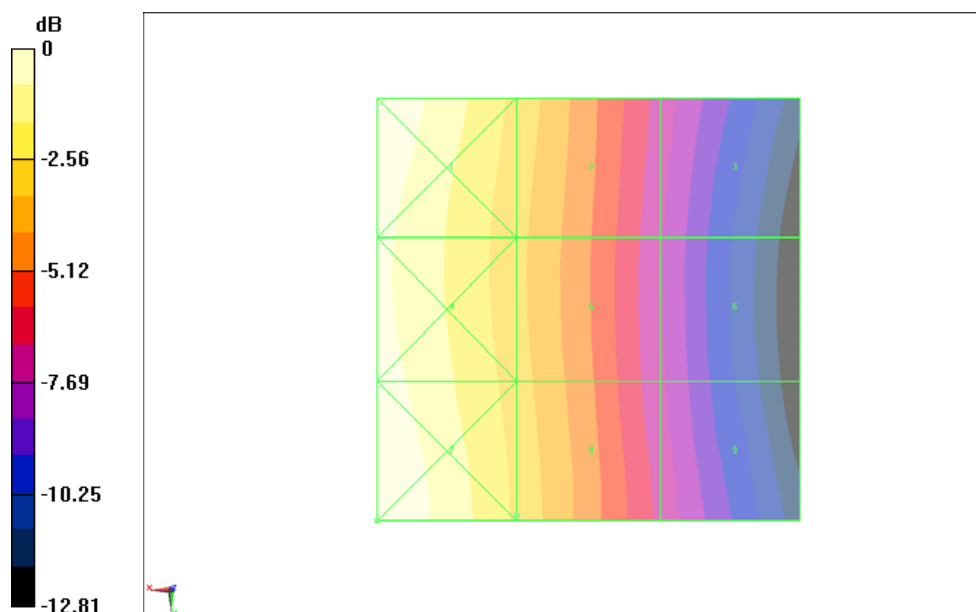
PMR not calibrated. PMF = 1.006 is applied.

H-field emissions = 0.1152 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M4<br>0.156 A/m | Grid 2 M4<br>0.114 A/m | Grid 3 M4<br>0.069 A/m |
| Grid 4 M4<br>0.149 A/m | Grid 5 M4<br>0.112 A/m | Grid 6 M4<br>0.067 A/m |
| Grid 7 M4<br>0.157 A/m | Grid 8 M4<br>0.115 A/m | Grid 9 M4<br>0.070 A/m |



0 dB = 0.1575 A/m = -16.05 dBA/m

**Fig B.19 HAC RF H-Field WCDMA 850 High**



## HAC RF H-Field WCDMA 850 Middle

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: WCDMA 850; Frequency: 836.4 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6260;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.08700 A/m; Power Drift = 0.00 dB

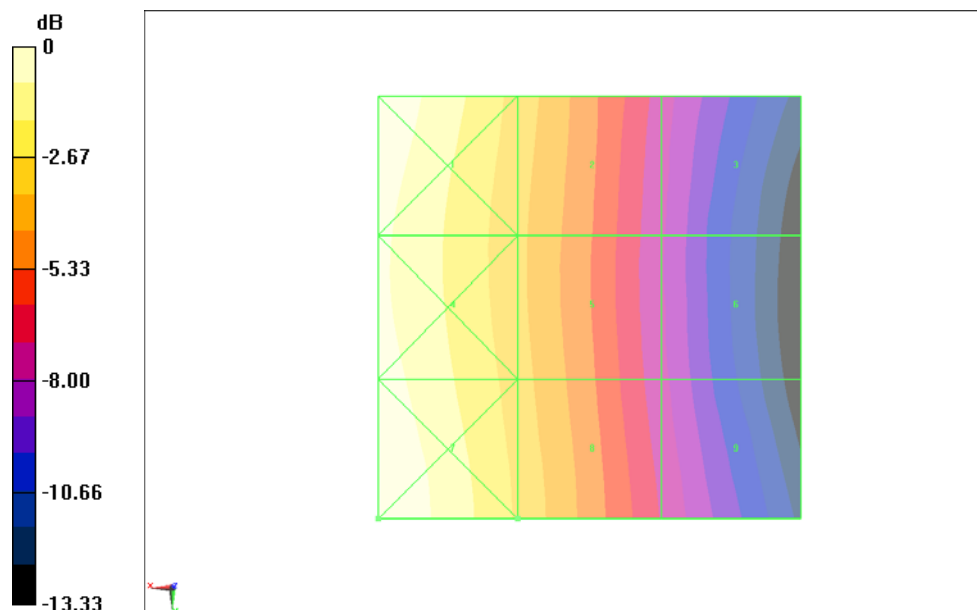
PMR not calibrated. PMF = 1.006 is applied.

H-field emissions = 0.1100 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M4<br>0.149 A/m | Grid 2 M4<br>0.107 A/m | Grid 3 M4<br>0.064 A/m |
| Grid 4 M4<br>0.143 A/m | Grid 5 M4<br>0.106 A/m | Grid 6 M4<br>0.063 A/m |
| Grid 7 M4<br>0.152 A/m | Grid 8 M4<br>0.110 A/m | Grid 9 M4<br>0.067 A/m |



0 dB = 0.1517 A/m = -16.38 dBA/m

**Fig B.20 HAC RF H-Field WCDMA 850 Middle**

## HAC RF H-Field WCDMA 850 Low

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: WCDMA 850; Frequency: 826.4 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6260;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.08100 A/m; Power Drift = 0.03 dB

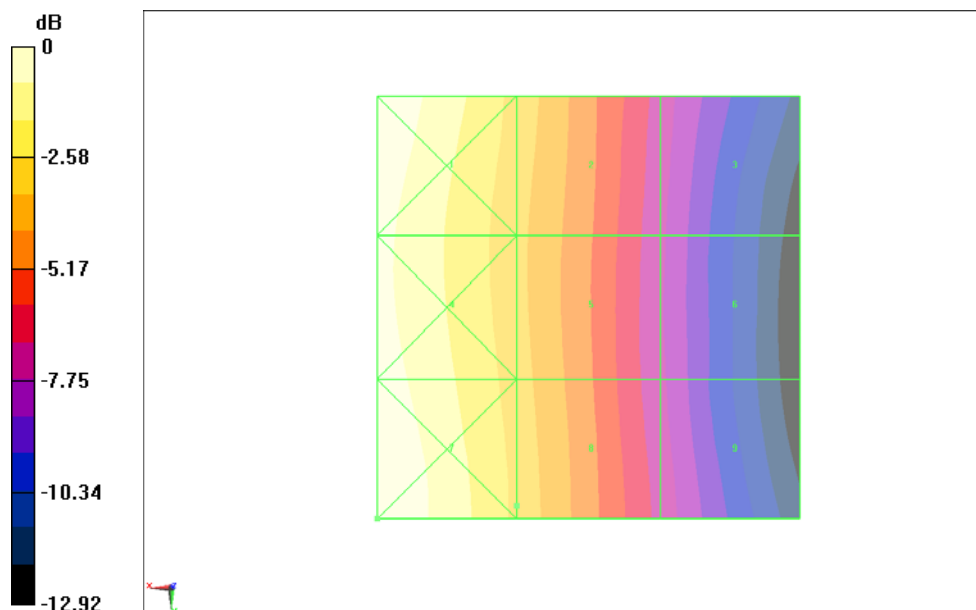
PMR not calibrated. PMF = 1.006 is applied.

H-field emissions = 0.1003 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M4<br>0.137 A/m | Grid 2 M4<br>0.099 A/m | Grid 3 M4<br>0.060 A/m |
| Grid 4 M4<br>0.132 A/m | Grid 5 M4<br>0.098 A/m | Grid 6 M4<br>0.058 A/m |
| Grid 7 M4<br>0.138 A/m | Grid 8 M4<br>0.100 A/m | Grid 9 M4<br>0.061 A/m |



0 dB = 0.1384 A/m = -17.18 dBA/m

**Fig B.21 HAC RF H-Field WCDMA 850 Low**

## HAC RF H-Field WCDMA 1900 High

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: WCDMA 1900; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6260;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.08600 A/m; Power Drift = 0.01 dB

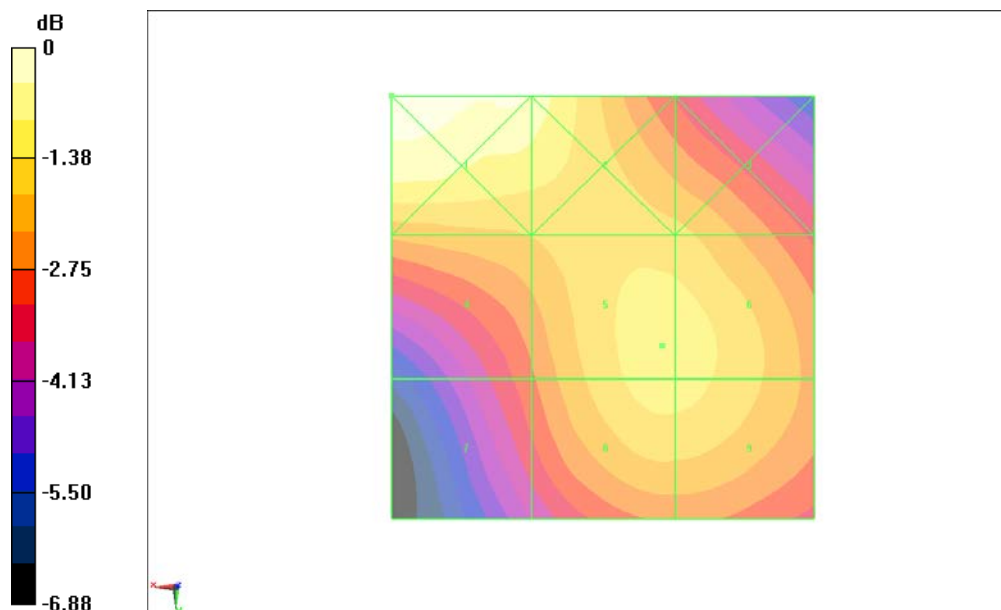
PMR not calibrated. PMF = 1.004 is applied.

H-field emissions = 0.08167 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M4<br>0.093 A/m | Grid 2 M4<br>0.088 A/m | Grid 3 M4<br>0.077 A/m |
| Grid 4 M4<br>0.075 A/m | Grid 5 M4<br>0.082 A/m | Grid 6 M4<br>0.082 A/m |
| Grid 7 M4<br>0.067 A/m | Grid 8 M4<br>0.081 A/m | Grid 9 M4<br>0.081 A/m |



0 dB = 0.09301 A/m = -20.63 dBA/m

**Fig B.22 HAC RF H-Field WCDMA 1900 High**

## HAC RF H-Field WCDMA 1900 Middle

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: WCDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6260;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.08300 A/m; Power Drift = -0.03 dB

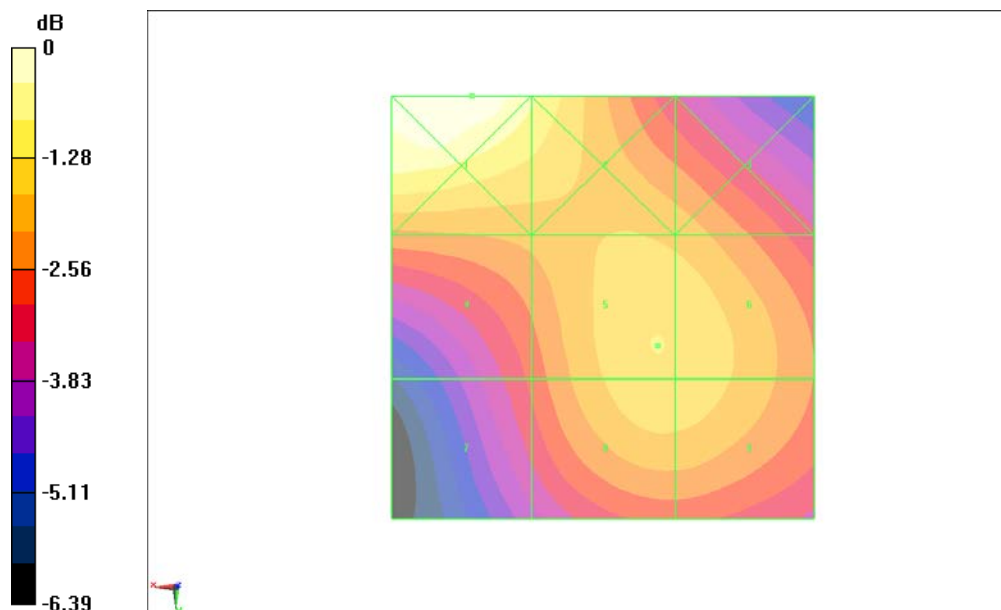
PMR not calibrated. PMF = 1.004 is applied.

H-field emissions = 0.07721 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M4<br>0.089 A/m | Grid 2 M4<br>0.082 A/m | Grid 3 M4<br>0.072 A/m |
| Grid 4 M4<br>0.071 A/m | Grid 5 M4<br>0.077 A/m | Grid 6 M4<br>0.077 A/m |
| Grid 7 M4<br>0.064 A/m | Grid 8 M4<br>0.077 A/m | Grid 9 M4<br>0.076 A/m |



0 dB = 0.08932 A/m = -20.98 dBA/m

**Fig B.23 HAC RF H-Field WCDMA 1900 Middle**

## HAC RF H-Field WCDMA 1900 Low

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: WCDMA 1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6260;

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.09000 A/m; Power Drift = -0.03 dB

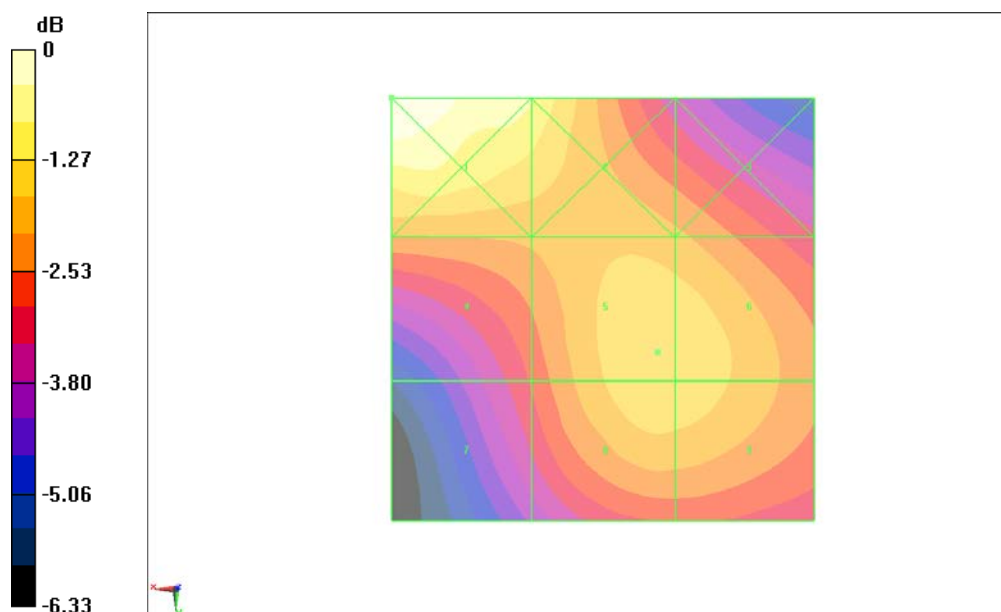
PMR not calibrated. PMF = 1.004 is applied.

H-field emissions = 0.08719 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M4<br>0.101 A/m | Grid 2 M4<br>0.092 A/m | Grid 3 M4<br>0.081 A/m |
| Grid 4 M4<br>0.080 A/m | Grid 5 M4<br>0.087 A/m | Grid 6 M4<br>0.087 A/m |
| Grid 7 M4<br>0.073 A/m | Grid 8 M4<br>0.087 A/m | Grid 9 M4<br>0.086 A/m |



0 dB = 0.1012 A/m = -19.90 dBA/m

**Fig B.24 HAC RF H-Field WCDMA 1900 Low**

## Total M-rating of GSM 850 MHz Band

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Probe: ER3DV6 - SN2428 Probe: H3DV6 - SN6260; ConvF(1, 1, 1)

## E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 67.21 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 2.876 is applied.

E-field emissions = 183.8 V/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled E-field

|                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|
| Grid 1 <b>M4</b><br>134.3 V/m | Grid 2 <b>M3</b><br>181.9 V/m | Grid 3 <b>M3</b><br>182.5 V/m |
| Grid 4 <b>M4</b><br>116.2 V/m | Grid 5 <b>M3</b><br>182.9 V/m | Grid 6 <b>M3</b><br>183.8 V/m |
| Grid 7 <b>M4</b><br>121.3 V/m | Grid 8 <b>M3</b><br>179.0 V/m | Grid 9 <b>M3</b><br>179.9 V/m |

## H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.1020 A/m; Power Drift = 0.03 dB

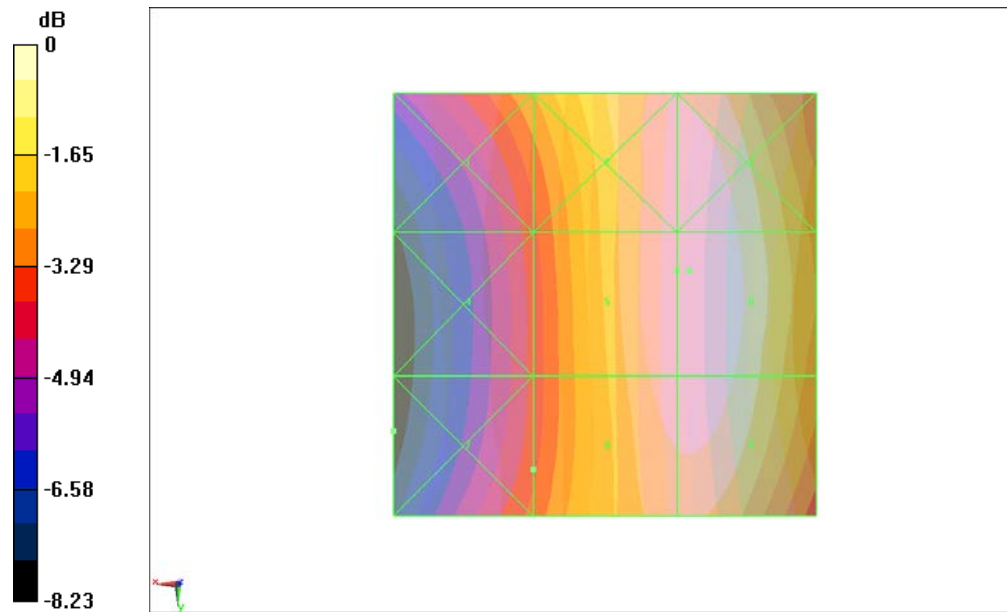
PMR not calibrated. PMF = 2.876 is applied.

H-field emissions = 0.3571 A/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled H-field

|                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|
| Grid 1 <b>M3</b><br>0.469 A/m | Grid 2 <b>M4</b><br>0.356 A/m | Grid 3 <b>M4</b><br>0.213 A/m |
| Grid 4 <b>M3</b><br>0.470 A/m | Grid 5 <b>M4</b><br>0.352 A/m | Grid 6 <b>M4</b><br>0.206 A/m |
| Grid 7 <b>M3</b><br>0.475 A/m | Grid 8 <b>M4</b><br>0.357 A/m | Grid 9 <b>M4</b><br>0.212 A/m |



0 dB = 183.8 V/m = 45.29 dBV/m

|                         |                       |                       |
|-------------------------|-----------------------|-----------------------|
| RF RESULTS AND M-RATING | E-Field M Rating      | <b>M3 (AWF -5 dB)</b> |
|                         | H-Field M Rating      | <b>M4 (AWF -5 dB)</b> |
|                         | <b>Total M Rating</b> | <b>M3</b>             |

**Fig B.25 Total M-rating of GSM 850**

### Total M-rating of GSM 1900 MHz Band

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Probe: ER3DV6 - SN2428 Probe: H3DV6 - SN6260; ConvF(1, 1, 1)

### E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.61 V/m; Power Drift = -3.69 dB

PMR not calibrated. PMF = 2.884 is applied.

E-field emissions = 72.61 V/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled E-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M3<br>69.21 V/m | Grid 2 M3<br>72.61 V/m | Grid 3 M3<br>71.94 V/m |
| Grid 4 M3<br>52.67 V/m | Grid 5 M3<br>58.38 V/m | Grid 6 M3<br>58.36 V/m |
| Grid 7 M3<br>74.95 V/m | Grid 8 M4<br>39.25 V/m | Grid 9 M4<br>37.80 V/m |

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.06000 A/m; Power Drift = 0.04 dB

PMR not calibrated. PMF = 2.865 is applied.

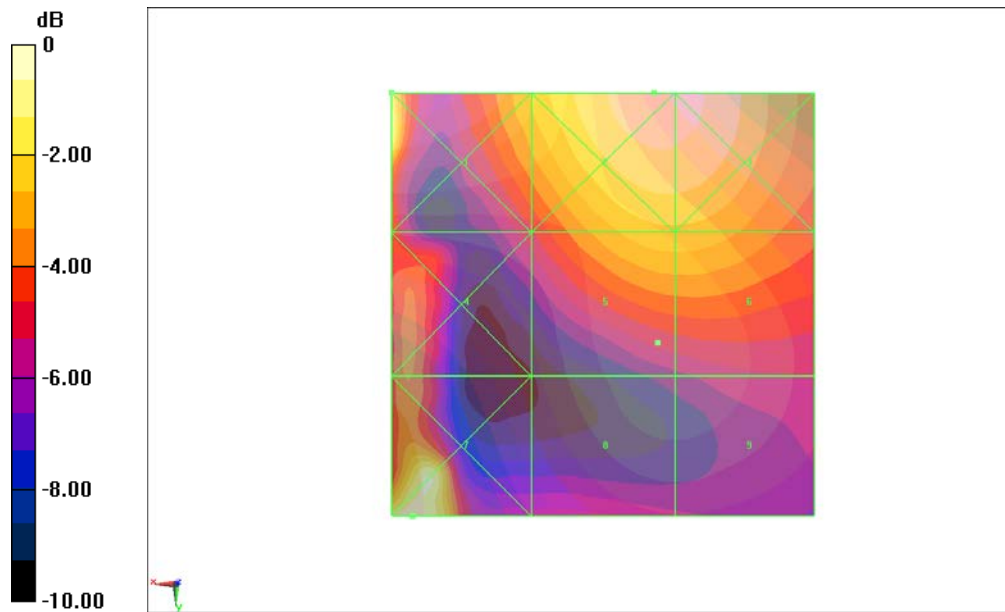
H-field emissions = 0.1604 A/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M3<br>0.203 A/m | Grid 2 M3<br>0.173 A/m | Grid 3 M3<br>0.150 A/m |
| Grid 4 M3<br>0.150 A/m | Grid 5 M3<br>0.160 A/m | Grid 6 M3<br>0.160 A/m |
| Grid 7 M4<br>0.132 A/m | Grid 8 M3<br>0.159 A/m | Grid 9 M3<br>0.159 A/m |





0 dB = 74.95 V/m = 37.50 dBV/m

|                         |                       |                       |
|-------------------------|-----------------------|-----------------------|
| RF RESULTS AND M-RATING | E-Field M Rating      | <b>M3 (AWF -5 dB)</b> |
|                         | H-Field M Rating      | <b>M3 (AWF -5 dB)</b> |
|                         | <b>Total M Rating</b> | <b>M3</b>             |

**Fig B.26 Total M-rating of GSM 1900**

## Total M-rating of WCDMA 850 MHz Band

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: WCDMA 850; Frequency: 846.6 MHz; Frequency: 826.4 MHz

Duty Cycle: 1:1

Probe: ER3DV6 - SN2428 Probe: H3DV6 - SN6260; ConvF(1, 1, 1)

## E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 65.22 V/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 1.003 is applied.

E-field emissions = 59.37 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M4<br>44.96 V/m | Grid 2 M4<br>59.00 V/m | Grid 3 M4<br>59.04 V/m |
| Grid 4 M4<br>40.07 V/m | Grid 5 M4<br>59.26 V/m | Grid 6 M4<br>59.37 V/m |
| Grid 7 M4<br>40.92 V/m | Grid 8 M4<br>57.97 V/m | Grid 9 M4<br>58.08 V/m |

## H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.09200 A/m; Power Drift = 0.01 dB

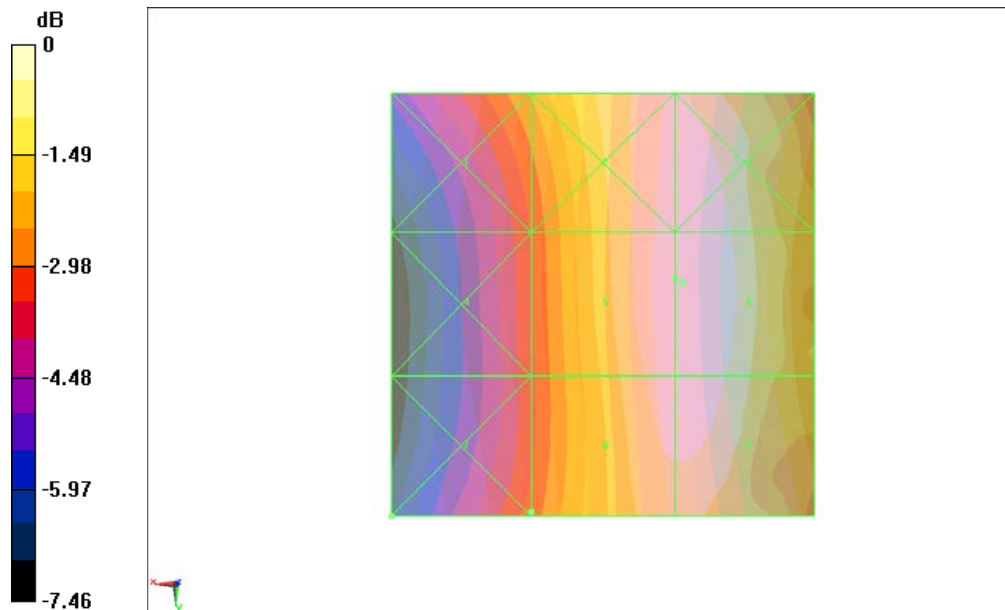
PMR not calibrated. PMF = 1.006 is applied.

H-field emissions = 0.1152 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Grid 1 M4<br>0.156 A/m | Grid 2 M4<br>0.114 A/m | Grid 3 M4<br>0.069 A/m |
| Grid 4 M4<br>0.149 A/m | Grid 5 M4<br>0.112 A/m | Grid 6 M4<br>0.067 A/m |
| Grid 7 M4<br>0.157 A/m | Grid 8 M4<br>0.115 A/m | Grid 9 M4<br>0.070 A/m |



0 dB = 59.37 V/m = 35.47 dBV/m

|                         |                       |                      |
|-------------------------|-----------------------|----------------------|
| RF RESULTS AND M-RATING | E-Field M Rating      | <b>M4 (AWF 0 dB)</b> |
|                         | H-Field M Rating      | <b>M4 (AWF 0 dB)</b> |
|                         | <b>Total M Rating</b> | <b>M4</b>            |

**Fig B.27 Total M-rating of WCDMA 850**

### Total M-rating of WCDMA 1900 MHz Band

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Ambient Temperature: 22.1°C

Communication System: WCDMA 1900; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Probe: ER3DV6 - SN2428 Probe: H3DV6 - SN6260; ConvF(1, 1, 1)

### E Scan - ER3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.19 V/m; Power Drift = 0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 31.53 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

|           |           |           |
|-----------|-----------|-----------|
| Grid 1 M4 | Grid 2 M4 | Grid 3 M4 |
| 33.33 V/m | 40.94 V/m | 40.32 V/m |
| Grid 4 M4 | Grid 5 M4 | Grid 6 M4 |
| 23.35 V/m | 31.53 V/m | 31.50 V/m |
| Grid 7 M4 | Grid 8 M4 | Grid 9 M4 |
| 23.25 V/m | 22.34 V/m | 20.07 V/m |

### H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 3/Hearing Aid

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.09000 A/m; Power Drift = -0.03 dB

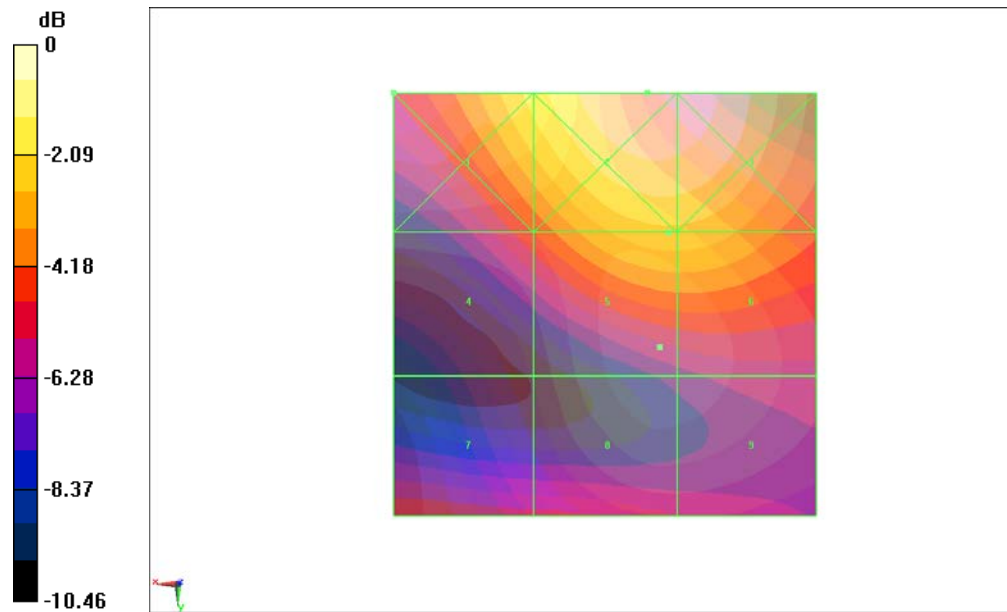
PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.08719 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

|           |           |           |
|-----------|-----------|-----------|
| Grid 1 M4 | Grid 2 M4 | Grid 3 M4 |
| 0.101 A/m | 0.092 A/m | 0.081 A/m |
| Grid 4 M4 | Grid 5 M4 | Grid 6 M4 |
| 0.080 A/m | 0.087 A/m | 0.087 A/m |
| Grid 7 M4 | Grid 8 M4 | Grid 9 M4 |
| 0.073 A/m | 0.087 A/m | 0.086 A/m |



0 dB = 40.94 V/m = 32.24 dBV/m

|                         |                       |                      |
|-------------------------|-----------------------|----------------------|
| RF RESULTS AND M-RATING | E-Field M Rating      | <b>M4 (AWF 0 dB)</b> |
|                         | H-Field M Rating      | <b>M4 (AWF 0 dB)</b> |
|                         | <b>Total M Rating</b> | <b>M4</b>            |

**Fig B.28 Total M-rating of WCDMA 1900**

## ANNEX C SYSTEM VALIDATION RESULT

### E SCAN of Dipole 835 MHz

Date: 2014-5-21

Electronics: DAE4 Sn1331

Medium: Air

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

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Probe: ER3DV6 - SN2428;ConvF(1, 1, 1)

**E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):** Measurement grid: dx=0.5000mm, dy=0.5000mm

Maximum value of peak Total field = 164.8 V/m

Probe Modulation Factor = 1.000

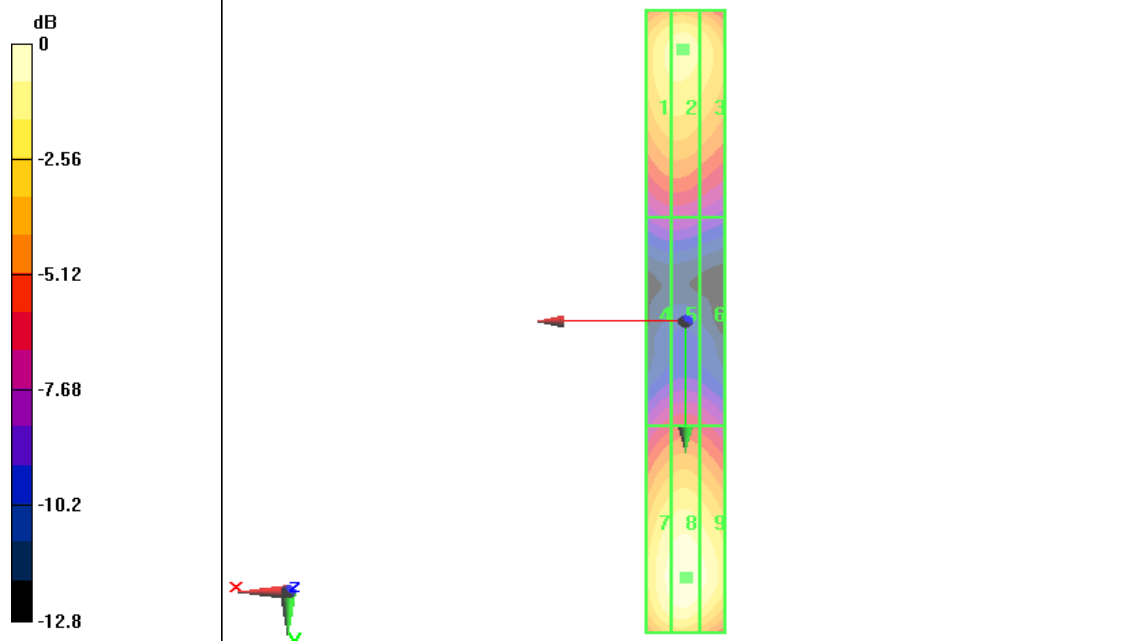
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 103.6 V/m; Power Drift = -0.09 dB

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

Peak E-field in V/m

|          |          |          |
|----------|----------|----------|
| Grid 1   | Grid 2   | Grid 3   |
| 157.6 M4 | 164.8 M4 | 161.2 M4 |
| Grid 4   | Grid 5   | Grid 6   |
| 81.06 M4 | 84.05M4  | 82.48 M4 |
| Grid 7   | Grid 8   | Grid 9   |
| 152.4 M4 | 162.7 M4 | 161.3 M4 |



0 dB = 164.8V/m

## H SCAN of Dipole 835 MHz

**Date: 2014-5-21**

Electronics: DAE4 Sn1331

Medium: Air

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

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Probe: H3DV6 - SN6260;

**H Scan - measurement distance from the probe sensor center to CD835 Dipole =**

**10mm/Hearing Aid Compatibility Test (41x361x1):** Measurement grid: dx=0.5000mm, dy=0.5000mm

Maximum value of peak Total field = 0.469 A/m

Probe Modulation Factor = 1.000

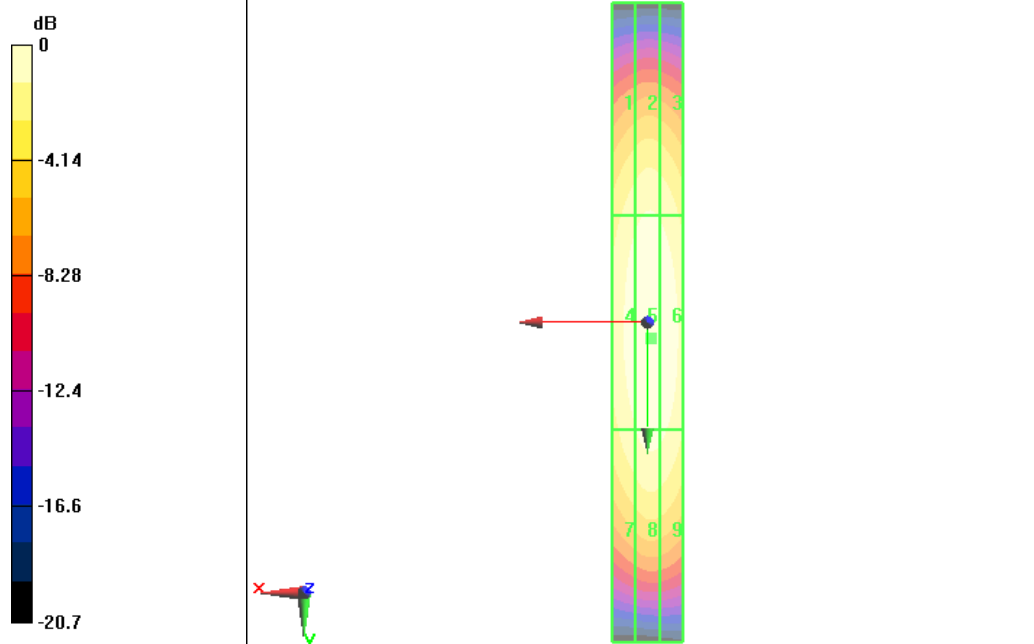
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.498 A/m; Power Drift = 0.07 dB

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

Peak H-field in A/m

|          |          |          |
|----------|----------|----------|
| Grid 1   | Grid 2   | Grid 3   |
| 0.387 M4 | 0.417 M4 | 0.402 M4 |
| Grid 4   | Grid 5   | Grid 6   |
| 0.435 M4 | 0.469 M4 | 0.454 M4 |
| Grid 7   | Grid 8   | Grid 9   |
| 0.384 M4 | 0.421 M4 | 0.408 M4 |



0 dB = 0.469A/m

## E SCAN of Dipole 1880 MHz

**Date: 2014-5-21**

Electronics: DAE4 Sn1331

Medium: Air

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

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

Probe: ER3DV6 - SN2428;ConvF(1, 1, 1)

**E Scan - measurement distance from the probe sensor center to CD1880 Dipole =**

**10mm/Hearing Aid Compatibility Test (41x181x1):** Measurement grid: dx=0.5000mm, dy=0.5000mm

Maximum value of peak Total field = 142.7 V/m

Probe Modulation Factor = 1.000

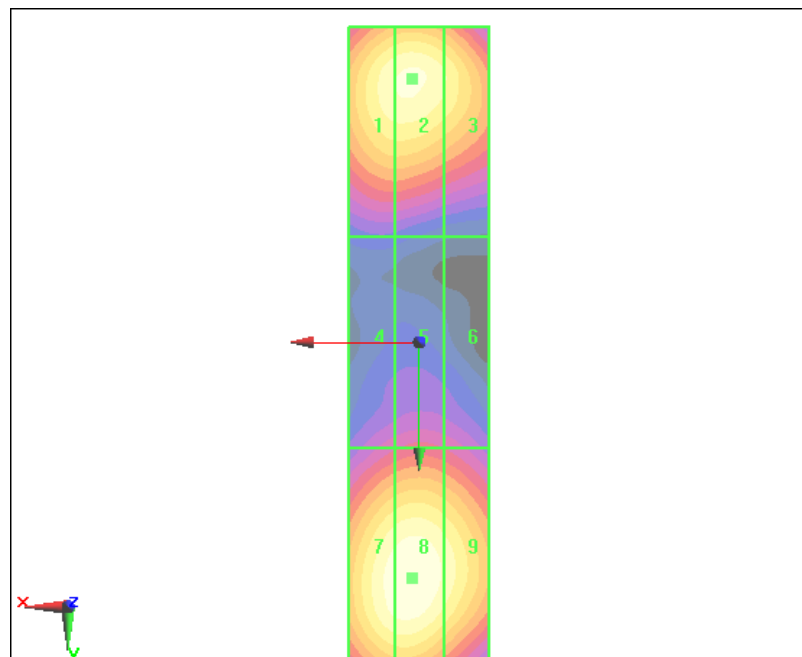
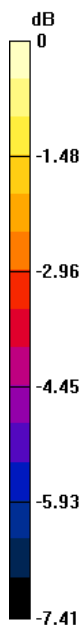
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 159.6 V/m; Power Drift = 0.10 dB

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

Peak E-field in V/m

|                    |                    |                    |
|--------------------|--------------------|--------------------|
| Grid 1<br>131.0 M2 | Grid 2<br>137.9 M2 | Grid 3<br>136.5 M2 |
| Grid 4<br>88.17 M3 | Grid 5<br>91.61 M3 | Grid 6<br>89.12 M3 |
| Grid 7<br>133.3 M2 | Grid 8<br>142.7 M2 | Grid 9<br>140.9 M2 |



0 dB = 142.7V/m



## H SCAN of Dipole 1880 MHz

**Date: 2014-5-21**

Electronics: DAE4 Sn1331

Medium: Air

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

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

Probe: H3DV6 - SN6260;

**H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):** Measurement grid: dx=0.5000mm, dy=0.5000mm

Maximum value of peak Total field = 0.459 A/m

Probe Modulation Factor = 1.000

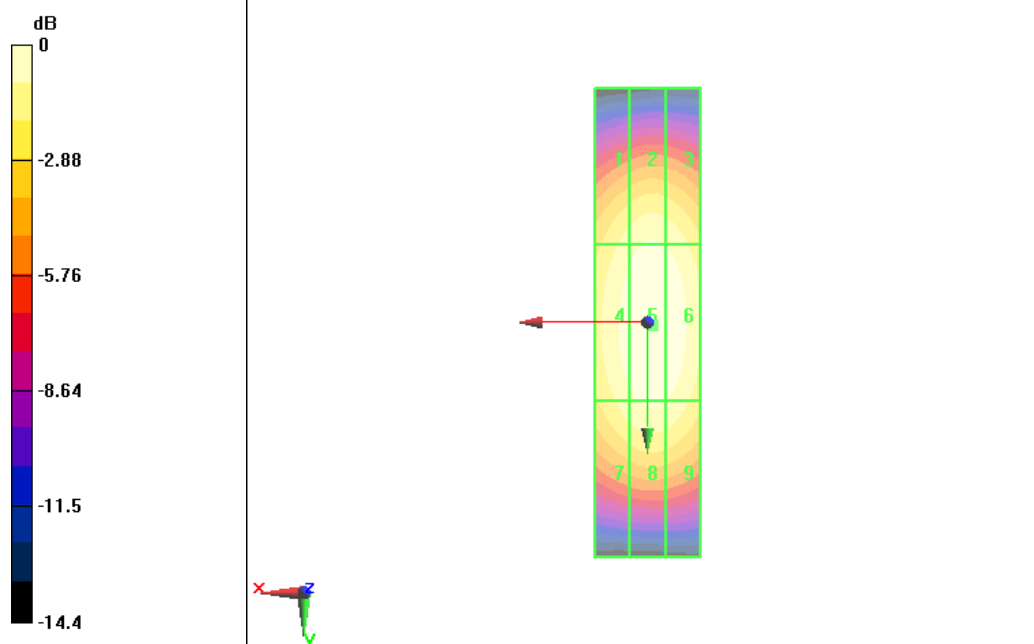
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.485 A/m; Power Drift = 0.06 dB

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

Peak H-field in A/m

|          |          |          |
|----------|----------|----------|
| Grid 1   | Grid 2   | Grid 3   |
| 0.386 M2 | 0.416 M2 | 0.407 M2 |
| Grid 4   | Grid 5   | Grid 6   |
| 0.425 M2 | 0.459 M2 | 0.447 M2 |
| Grid 7   | Grid 8   | Grid 9   |
| 0.386 M2 | 0.423 M2 | 0.410 M2 |



0 dB = 0.459A/m

# ANNEX D PROBE CALIBRATION CERTIFICATE

E\_Probe ER3DV6

**Calibration Laboratory of**  
**Schmid & Partner**  
**Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Client **TMC Beijing (Auden)**

Certificate No: ER3-2428\_Jan14

## CALIBRATION CERTIFICATE

Object **ER3DV6 - SN:2428**

Calibration procedure(s) **QA CAL-02.v8, QA CAL-25.v6**  
Calibration procedure for E-field probes optimized for close near field  
evaluations in air

Calibration date: **January 27, 2014**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature ( $22 \pm 3$ °C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID              | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|-----------------|-----------------------------------|------------------------|
| Power meter E4419B         | GB41293874      | 04-Apr-13 (No. 217-01733)         | Apr-14                 |
| Power sensor E4412A        | MY41498087      | 04-Apr-13 (No. 217-01733)         | Apr-14                 |
| Reference 3 dB Attenuator  | SN: S5054 (3c)  | 04-Apr-13 (No. 217-01737)         | Apr-14                 |
| Reference 20 dB Attenuator | SN: S5277 (20x) | 04-Apr-13 (No. 217-01735)         | Apr-14                 |
| Reference 30 dB Attenuator | SN: S5129 (30b) | 04-Apr-13 (No. 217-01738)         | Apr-14                 |
| Reference Probe ER3DV6     | SN: 2328        | 10-Oct-13 (No. ER3-2328_Oct13)    | Oct-14                 |
| DAE4                       | SN: 789         | 15-May-13 (No. DAE4-789_May13)    | May-14                 |
| Secondary Standards        | ID              | Check Date (in house)             | Scheduled Check        |
| RF generator HP 8648C      | US3642U01700    | 4-Aug-99 (in house check Apr-13)  | In house check: Apr-16 |
| Network Analyzer HP 8753E  | US37390585      | 18-Oct-01 (in house check Oct-13) | In house check: Oct-14 |

|                          | Name          | Function              | Signature                                                                             |
|--------------------------|---------------|-----------------------|---------------------------------------------------------------------------------------|
| Calibrated by:           | Leif Klysner  | Laboratory Technician |  |
| Approved by:             | Katja Pokovic | Technical Manager     |  |
| Issued: January 28, 2014 |               |                       |                                                                                       |

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

**Calibration Laboratory of**  
**Schmid & Partner**  
**Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 108**

The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

**Glossary:**

|                          |                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| NORM <sub>x,y,z</sub>    | sensitivity in free space                                                                                                                               |
| DCP                      | diode compression point                                                                                                                                 |
| CF                       | crest factor (1/duty_cycle) of the RF signal                                                                                                            |
| A, B, C, D               | modulation dependent linearization parameters                                                                                                           |
| Polarization $\phi$      | $\phi$ rotation around probe axis                                                                                                                       |
| Polarization $\vartheta$ | $\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center),<br>i.e., $\vartheta = 0$ is normal to probe axis |
| Connector Angle          | information used in DASY system to align probe sensor X to the robot coordinate system                                                                  |

**Calibration is Performed According to the Following Standards:**

- IEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005
- CTIA Test Plan for Hearing Aid Compatibility, April 2010.

**Methods Applied and Interpretation of Parameters:**

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  for XY sensors and  $\vartheta = 90$  for Z sensor ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide).
- NORM(f)<sub>x,y,z</sub>** = NORM<sub>x,y,z</sub> \* frequency\_response (see Frequency Response Chart).
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- Spherical isotropy (3D deviation from isotropy)**: in a locally homogeneous field realized using an open waveguide setup.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).

ER3DV6 – SN:2428

January 27, 2014

# Probe ER3DV6

## SN:2428

Manufactured: September 11, 2007  
Calibrated: January 27, 2014

Calibrated for DASY/EASY Systems  
(Note: non-compatible with DASY2 system!)

ER3DV6- SN:2428

January 27, 2014

## DASY/EASY - Parameters of Probe: ER3DV6 - SN:2428

### Basic Calibration Parameters

|                                              | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|----------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) | 1.51     | 1.59     | 1.83     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                        | 98.9     | 97.0     | 101.1    |               |

### Modulation Calibration Parameters

| UID       | Communication System Name |   | A<br>dB | B<br>dB $\sqrt{\mu\text{V}}$ | C    | D<br>dB | VR<br>mV | Unc <sup>E</sup><br>(k=2) |
|-----------|---------------------------|---|---------|------------------------------|------|---------|----------|---------------------------|
| 0         | CW                        | X | 0.0     | 0.0                          | 1.0  | 0.00    | 190.5    | $\pm 3.3 \%$              |
|           |                           | Y | 0.0     | 0.0                          | 1.0  |         | 152.5    |                           |
|           |                           | Z | 0.0     | 0.0                          | 1.0  |         | 198.6    |                           |
| 10021-DAA | GSM-FDD (TDMA, GMSK)      | X | 20.75   | 99.9                         | 29.1 | 9.39    | 119.1    | $\pm 1.2 \%$              |
|           |                           | Y | 19.27   | 99.6                         | 28.9 |         | 125.1    |                           |
|           |                           | Z | 24.43   | 99.4                         | 28.5 |         | 139.5    |                           |
| 10039-CAA | CDMA2000 (1xRTT, RC1)     | X | 4.62    | 65.6                         | 18.5 | 4.57    | 109.6    | $\pm 0.9 \%$              |
|           |                           | Y | 4.78    | 66.3                         | 18.9 |         | 121.2    |                           |
|           |                           | Z | 4.58    | 66.0                         | 18.7 |         | 114.4    |                           |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

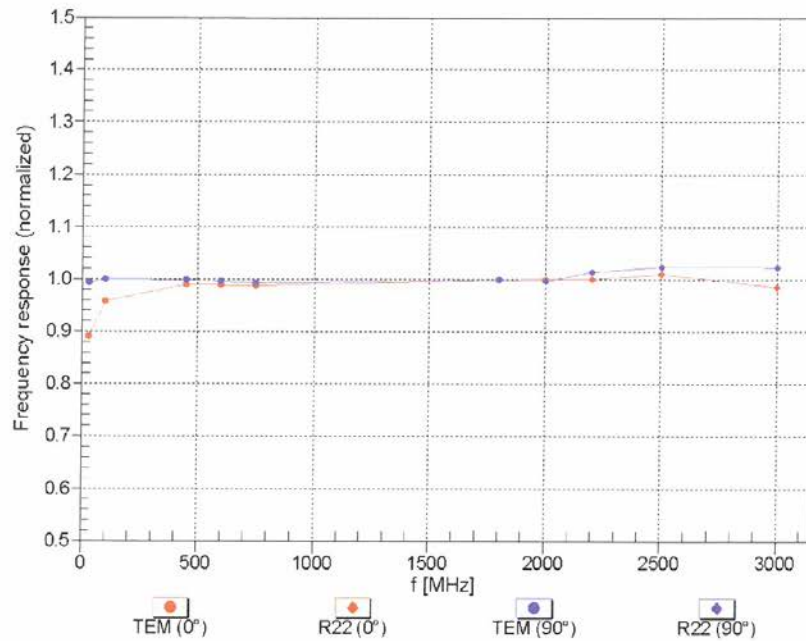
<sup>B</sup> Numerical linearization parameter; uncertainty not required.

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

ER3DV6- SN:2428

January 27, 2014

### Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

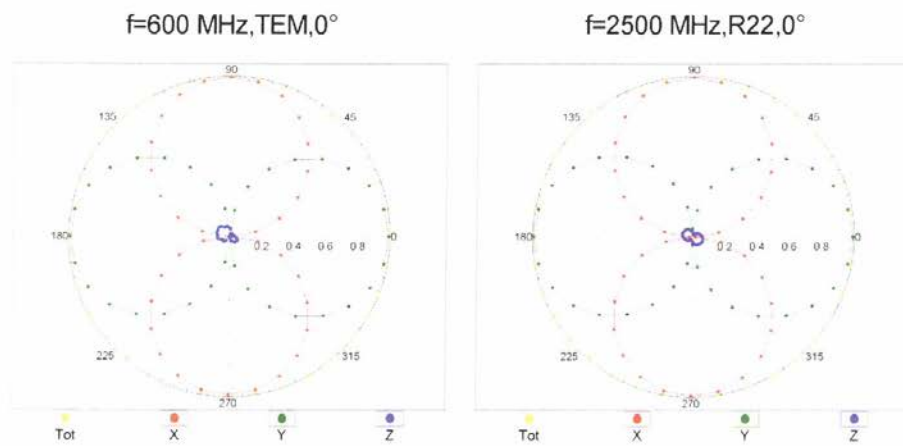


Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  (k=2)

ER3DV6- SN:2428

January 27, 2014

### Receiving Pattern ( $\phi$ ), $\vartheta = 0^\circ$



### Receiving Pattern ( $\phi$ ), $\vartheta = 90^\circ$

