

### HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/14/2015;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1380; Calibrated: 7/13/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### GSM850 E-Field measurement/Voice\_ch 128/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 = 57.68 V/m; Power Drift = -0.03 dB

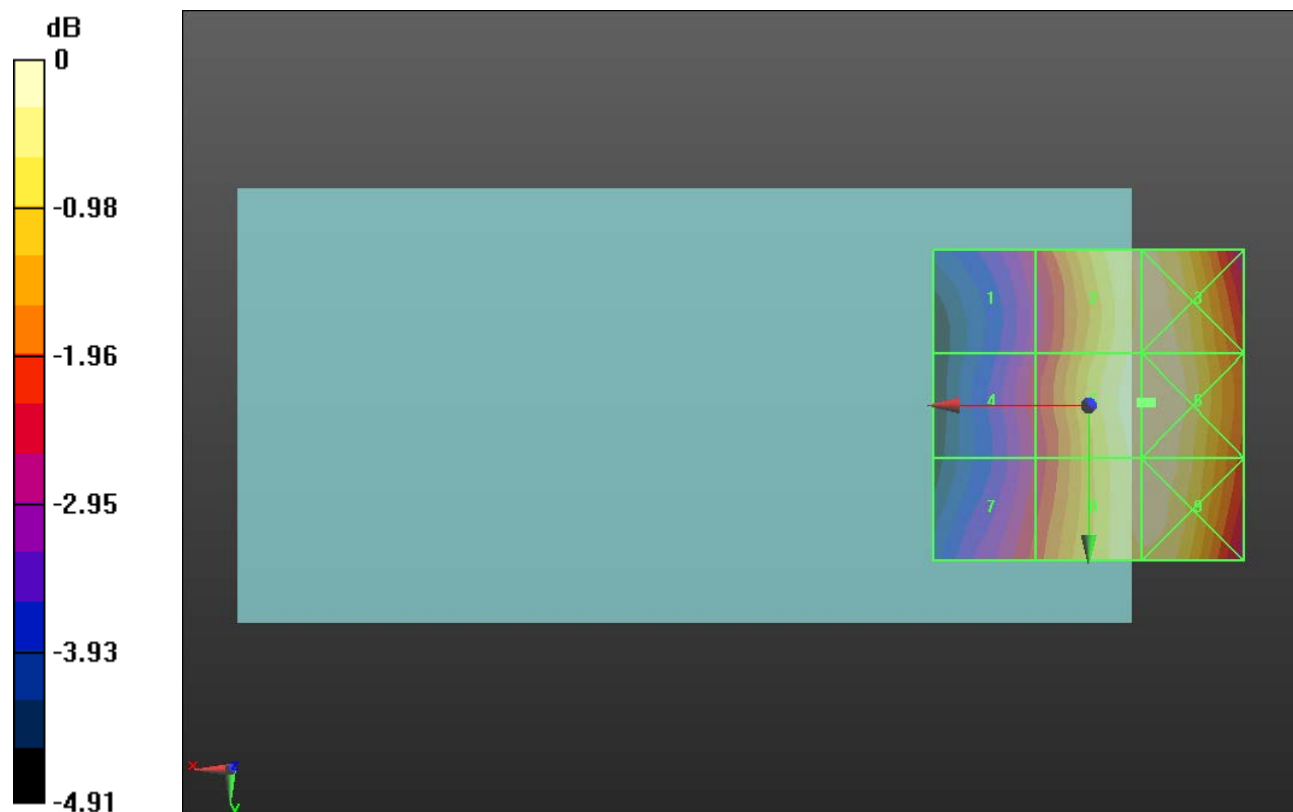
Applied MIF = 3.63 dB

RF audio interference level = 37.44 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>35.03 dBV/m</b>	Grid 2 <b>M4</b> <b>37.3 dBV/m</b>	Grid 3 <b>M4</b> <b>37.35 dBV/m</b>
Grid 4 <b>M4</b> <b>35.1 dBV/m</b>	Grid 5 <b>M4</b> <b>37.44 dBV/m</b>	Grid 6 <b>M4</b> <b>37.48 dBV/m</b>
Grid 7 <b>M4</b> <b>35.36 dBV/m</b>	Grid 8 <b>M4</b> <b>37.29 dBV/m</b>	Grid 9 <b>M4</b> <b>37.33 dBV/m</b>



0 dB = 74.79 V/m = 37.48 dBV/m

### HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/14/2015;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1380; Calibrated: 7/13/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### GSM850 E-Field measurement/Voice\_ch 190/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 = 55.83 V/m; Power Drift = -0.04 dB

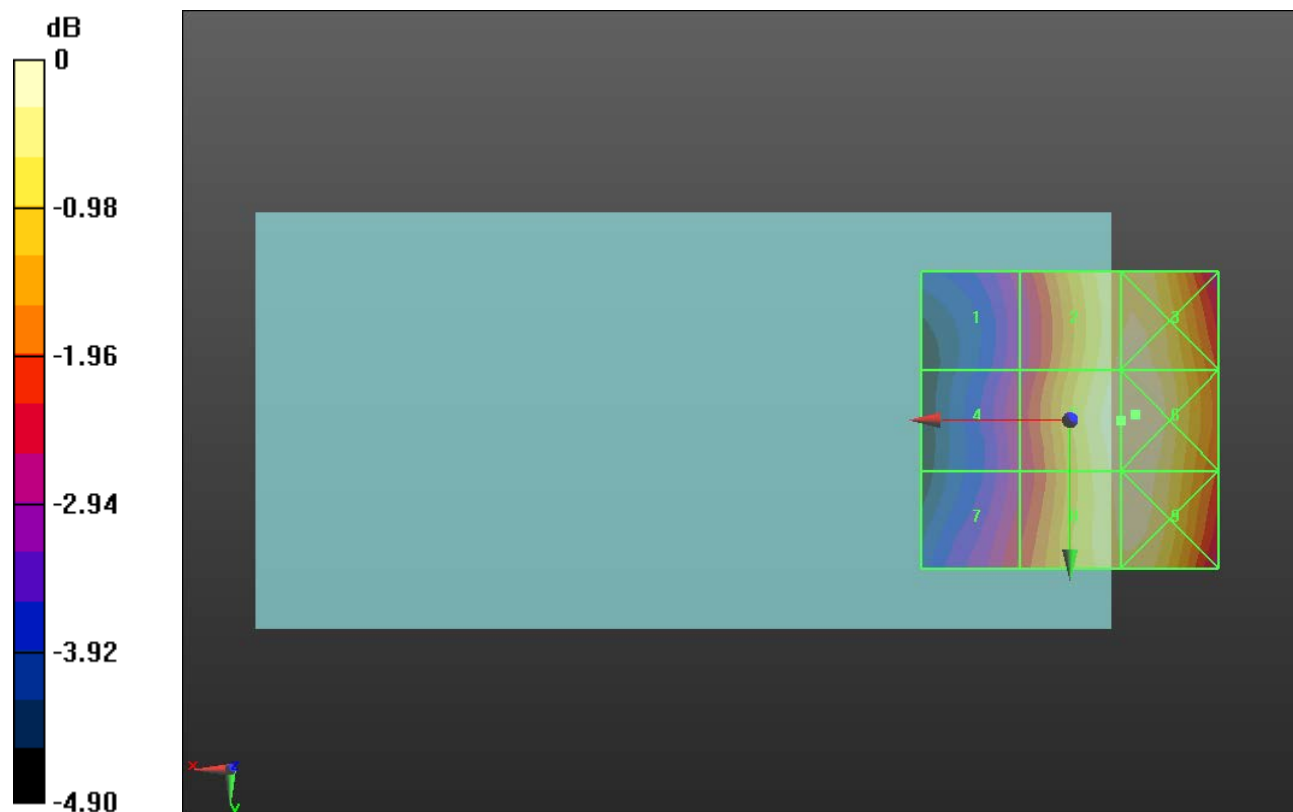
Applied MIF = 3.63 dB

RF audio interference level = 37.04 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>34.41 dBV/m</b>	Grid 2 <b>M4</b> <b>36.87 dBV/m</b>	Grid 3 <b>M4</b> <b>36.94 dBV/m</b>
Grid 4 <b>M4</b> <b>34.58 dBV/m</b>	Grid 5 <b>M4</b> <b>37.04 dBV/m</b>	Grid 6 <b>M4</b> <b>37.09 dBV/m</b>
Grid 7 <b>M4</b> <b>34.89 dBV/m</b>	Grid 8 <b>M4</b> <b>36.9 dBV/m</b>	Grid 9 <b>M4</b> <b>36.95 dBV/m</b>



0 dB = 71.55 V/m = 37.09 dBV/m

## HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/14/2015;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1380; Calibrated: 7/13/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

## GSM850 E-Field measurement/Voice\_ch 251/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 = 57.72 V/m; Power Drift = -0.04 dB

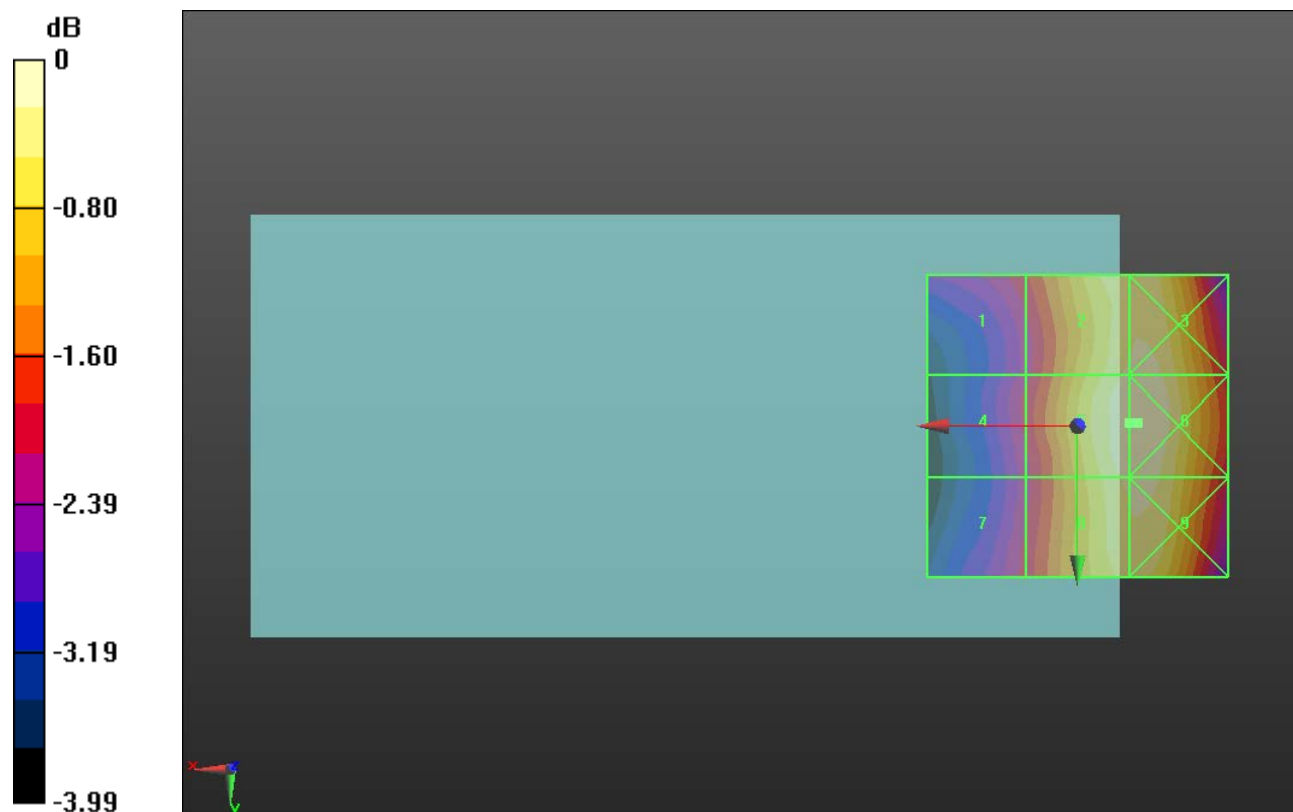
Applied MIF = 3.63 dB

RF audio interference level = 36.82 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>35 dBV/m</b>	Grid 2 <b>M4</b> <b>36.66 dBV/m</b>	Grid 3 <b>M4</b> <b>36.7 dBV/m</b>
Grid 4 <b>M4</b> <b>34.84 dBV/m</b>	Grid 5 <b>M4</b> <b>36.82 dBV/m</b>	Grid 6 <b>M4</b> <b>36.85 dBV/m</b>
Grid 7 <b>M4</b> <b>34.88 dBV/m</b>	Grid 8 <b>M4</b> <b>36.65 dBV/m</b>	Grid 9 <b>M4</b> <b>36.67 dBV/m</b>



0 dB = 69.60 V/m = 36.85 dBV/m

### HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/14/2015;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1380; Calibrated: 7/13/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### GSM1900 E-Field measurement/Voice\_ch 512/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 = 2.844 V/m; Power Drift = -1.24 dB

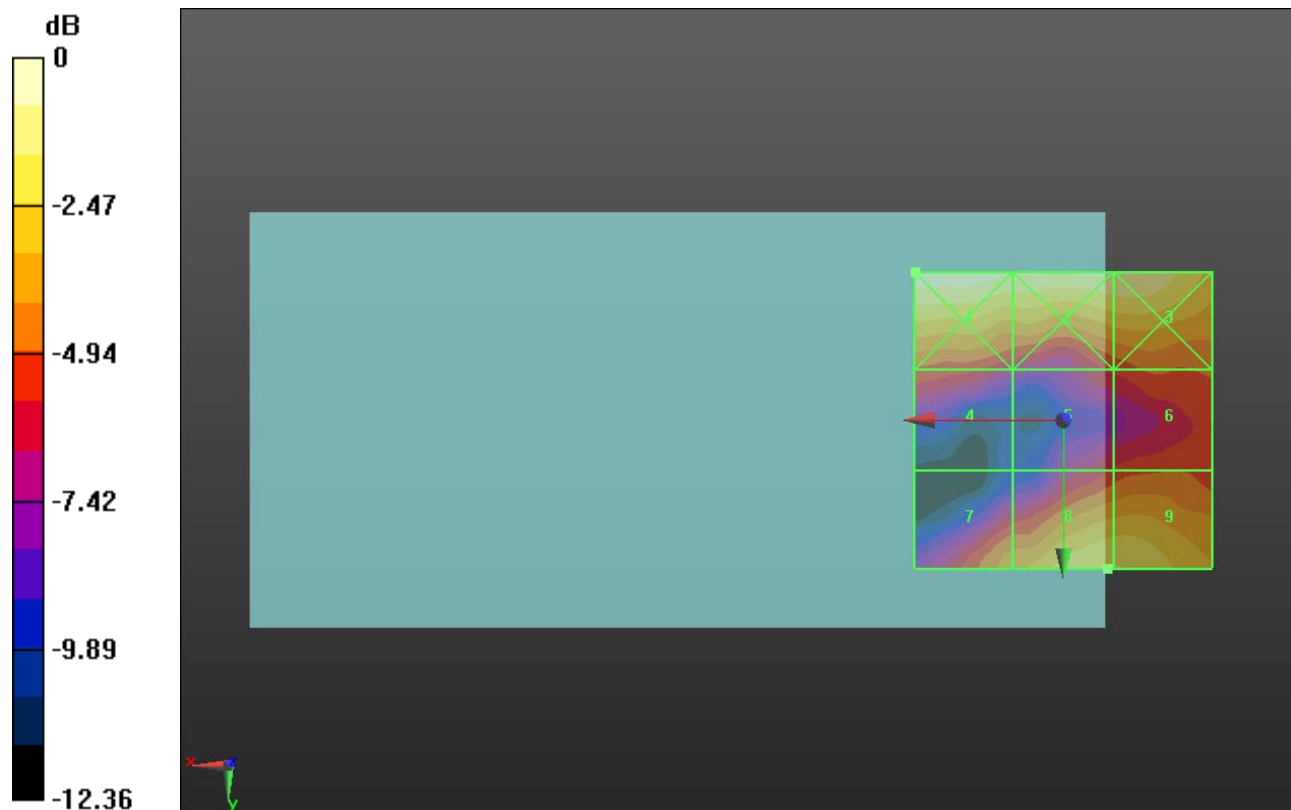
Applied MIF = 3.63 dB

RF audio interference level = 17.94 dBV/m

**Emission category: M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>19.52 dBV/m</b>	<b>Grid 2 M4</b> <b>18.98 dBV/m</b>	<b>Grid 3 M4</b> <b>18.89 dBV/m</b>
<b>Grid 4 M4</b> <b>14.43 dBV/m</b>	<b>Grid 5 M4</b> <b>13.97 dBV/m</b>	<b>Grid 6 M4</b> <b>14.76 dBV/m</b>
<b>Grid 7 M4</b> <b>15.98 dBV/m</b>	<b>Grid 8 M4</b> <b>17.94 dBV/m</b>	<b>Grid 9 M4</b> <b>17.94 dBV/m</b>



0 dB = 9.457 V/m = 19.52 dBV/m

## HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/14/2015;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1380; Calibrated: 7/13/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

## GSM1900 E-Field measurement/Voice\_ch 661/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 = 2.375 V/m; Power Drift = 0.20 dB

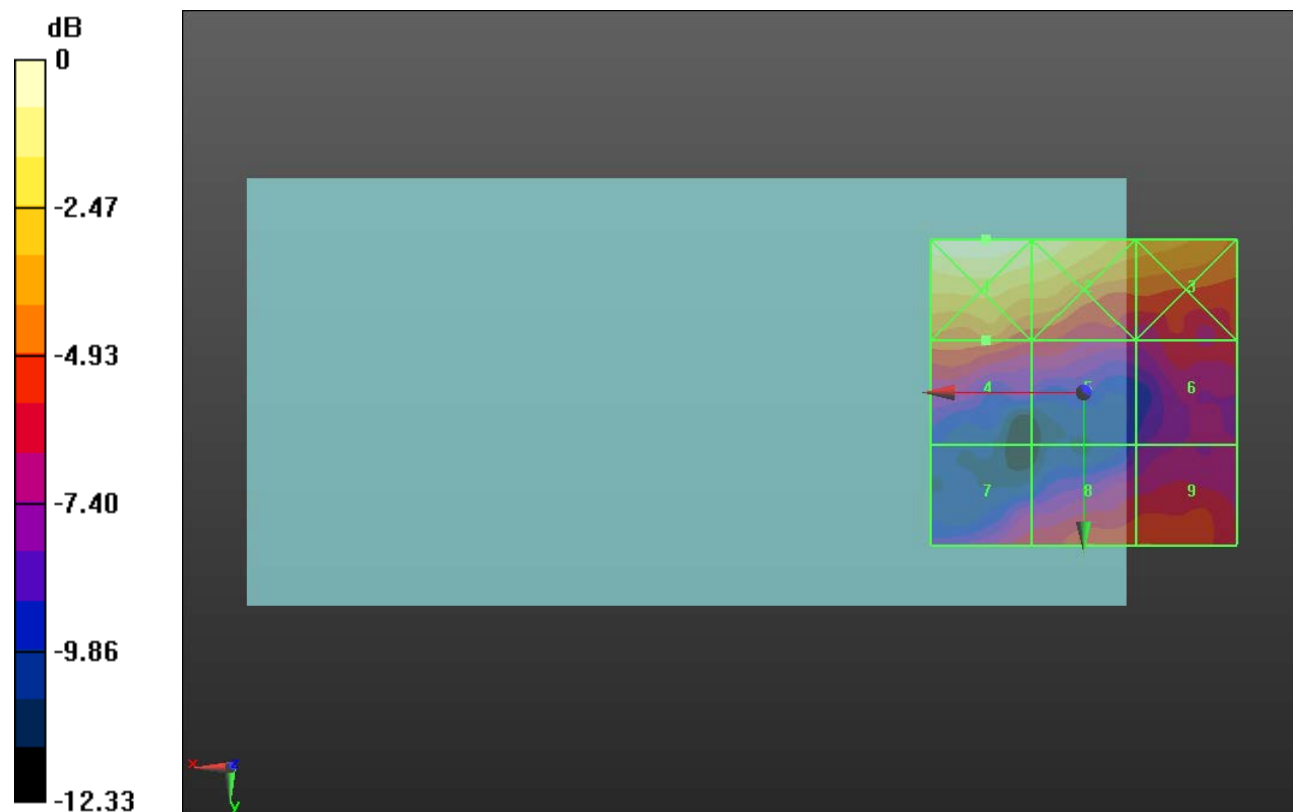
Applied MIF = 3.63 dB

RF audio interference level = 14.08 dBV/m

**Emission category: M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>18.5 dBV/m</b>	<b>Grid 2 M4</b> <b>17.72 dBV/m</b>	<b>Grid 3 M4</b> <b>15.73 dBV/m</b>
<b>Grid 4 M4</b> <b>14.08 dBV/m</b>	<b>Grid 5 M4</b> <b>12.89 dBV/m</b>	<b>Grid 6 M4</b> <b>12.85 dBV/m</b>
<b>Grid 7 M4</b> <b>12.49 dBV/m</b>	<b>Grid 8 M4</b> <b>13.71 dBV/m</b>	<b>Grid 9 M4</b> <b>13.64 dBV/m</b>



0 dB = 8.412 V/m = 18.50 dBV/m

### HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/14/2015;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1380; Calibrated: 7/13/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### GSM1900 E-Field measurement/Voice\_ch 810/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 = 2.881 V/m; Power Drift = -1.44 dB

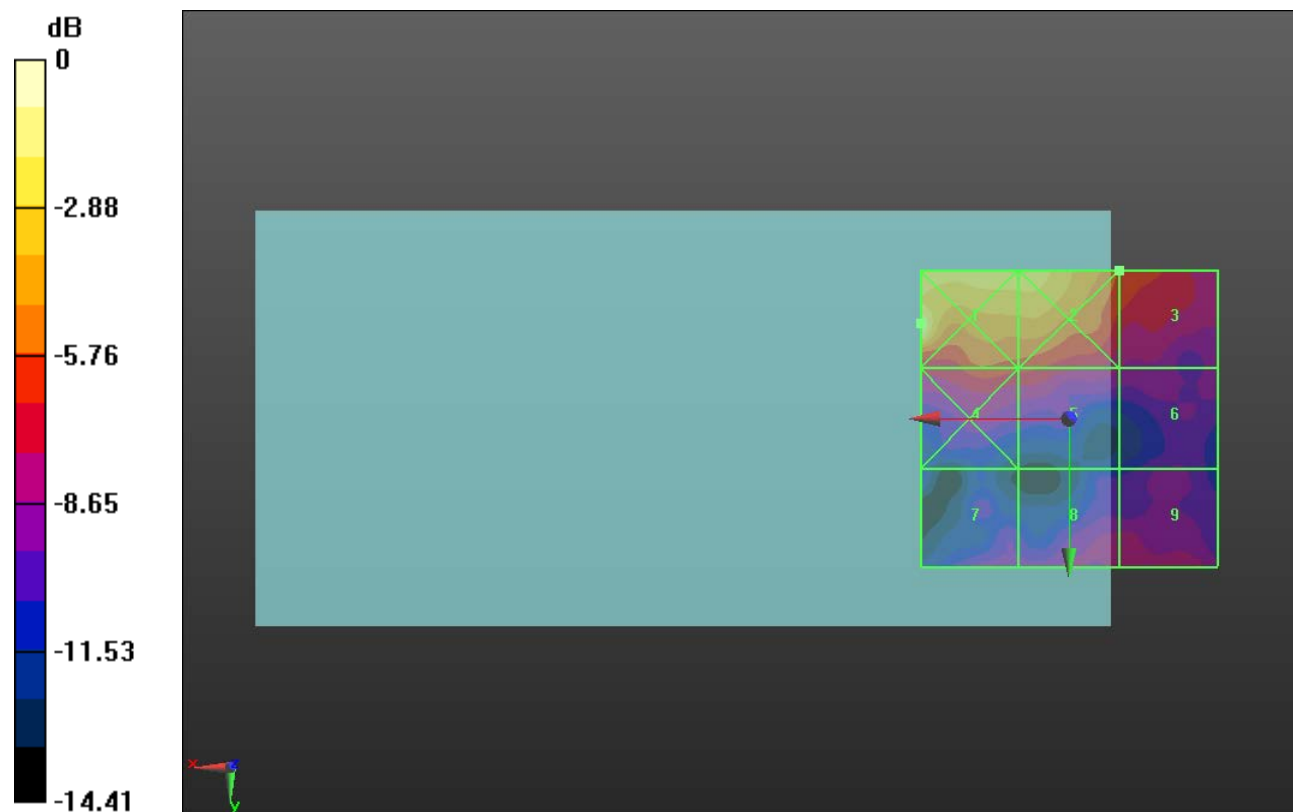
Applied MIF = 3.63 dB

RF audio interference level = 14.20 dBV/m

**Emission category: M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>20.12 dBV/m</b>	<b>Grid 2 M4</b> <b>17.84 dBV/m</b>	<b>Grid 3 M4</b> <b>14.2 dBV/m</b>
<b>Grid 4 M4</b> <b>14.22 dBV/m</b>	<b>Grid 5 M4</b> <b>13.75 dBV/m</b>	<b>Grid 6 M4</b> <b>11.52 dBV/m</b>
<b>Grid 7 M4</b> <b>11.32 dBV/m</b>	<b>Grid 8 M4</b> <b>12.04 dBV/m</b>	<b>Grid 9 M4</b> <b>12.34 dBV/m</b>



0 dB = 10.13 V/m = 20.11 dBV/m

### HAC-RF Emission

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2506 MHz; Duty Cycle: 1:8.87156

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/14/2015;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1380; Calibrated: 7/13/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### LTE TDD Band 41\_20 MHz BW E-Field measurement/16QAM\_RB 1/50\_ch 39750/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 = 7.120 V/m; Power Drift = -0.06 dB

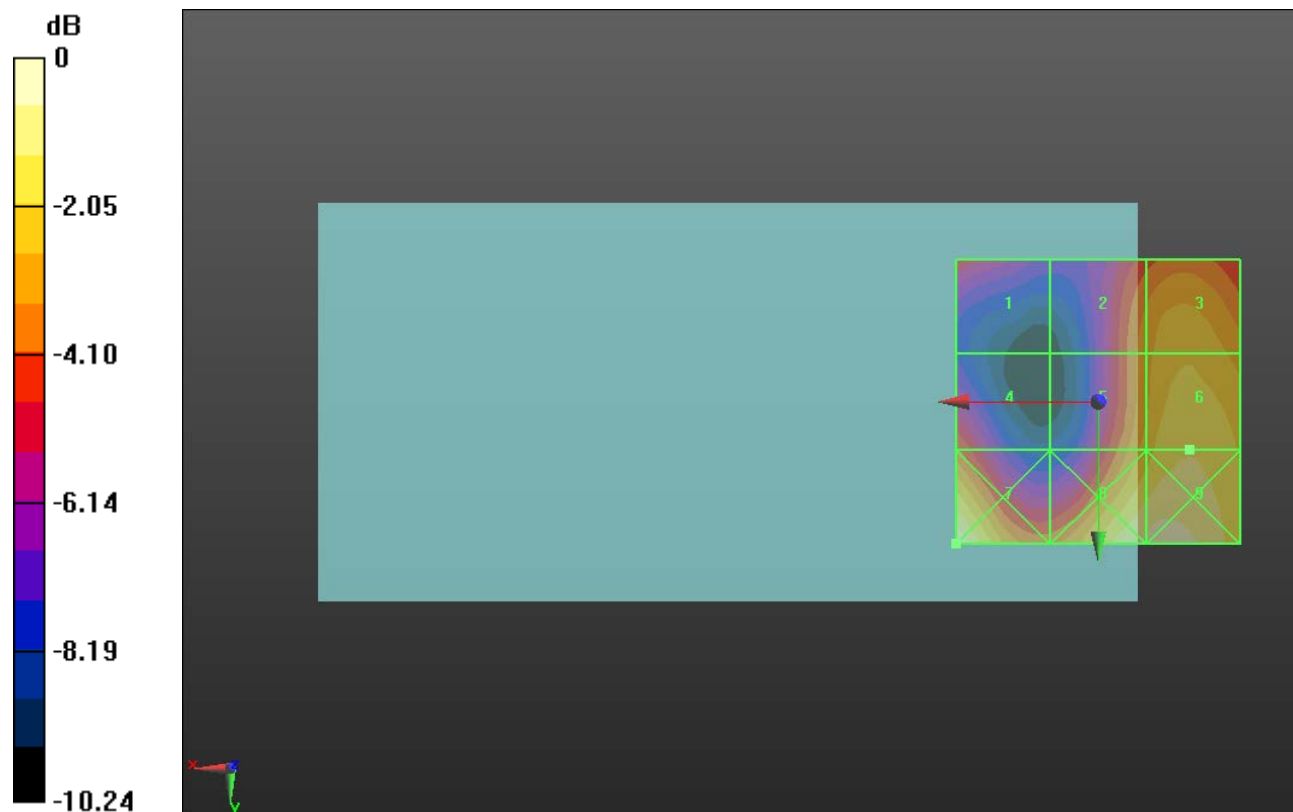
Applied MIF = -1.44 dB

RF audio interference level = 19.71 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>16.42 dBV/m</b>	Grid 2 <b>M4</b> <b>18.16 dBV/m</b>	Grid 3 <b>M4</b> <b>19.01 dBV/m</b>
Grid 4 <b>M4</b> <b>17.24 dBV/m</b>	Grid 5 <b>M4</b> <b>18.78 dBV/m</b>	Grid 6 <b>M4</b> <b>19.71 dBV/m</b>
Grid 7 <b>M4</b> <b>21.12 dBV/m</b>	Grid 8 <b>M4</b> <b>20.64 dBV/m</b>	Grid 9 <b>M4</b> <b>20.75 dBV/m</b>



0 dB = 11.38 V/m = 21.12 dBV/m

## HAC-RF Emission

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2549.5 MHz; Duty Cycle: 1:8.87156

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/14/2015;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1380; Calibrated: 7/13/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

## LTE TDD Band 41\_20 MHz BW E-Field measurement/16QAM\_RB 1/50\_ch 40185/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 = 8.071 V/m; Power Drift = -0.03 dB

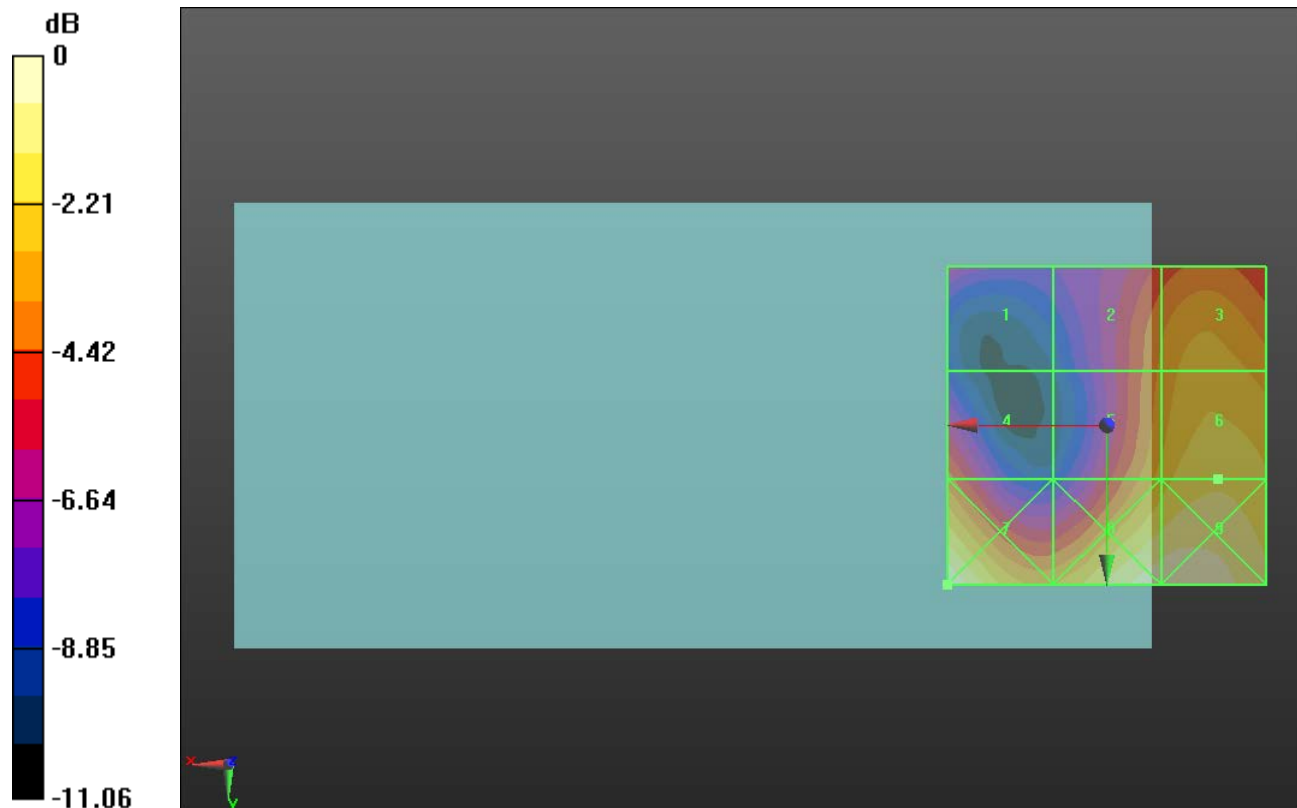
Applied MIF = -1.44 dB

RF audio interference level = 20.32 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>15.88 dBV/m</b>	Grid 2 <b>M4</b> <b>18.4 dBV/m</b>	Grid 3 <b>M4</b> <b>19.41 dBV/m</b>
Grid 4 <b>M4</b> <b>17.91 dBV/m</b>	Grid 5 <b>M4</b> <b>19.33 dBV/m</b>	Grid 6 <b>M4</b> <b>20.32 dBV/m</b>
Grid 7 <b>M4</b> <b>21.92 dBV/m</b>	Grid 8 <b>M4</b> <b>21.68 dBV/m</b>	Grid 9 <b>M4</b> <b>21.77 dBV/m</b>



0 dB = 12.47 V/m = 21.92 dBV/m



## HAC-RF Emission

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2593 MHz; Duty Cycle: 1:8.87156

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/14/2015;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1380; Calibrated: 7/13/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

## LTE TDD Band 41\_20 MHz BW E-Field measurement/16QAM\_RB 1/50\_ch 40620/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 = 10.14 V/m; Power Drift = 0.06 dB

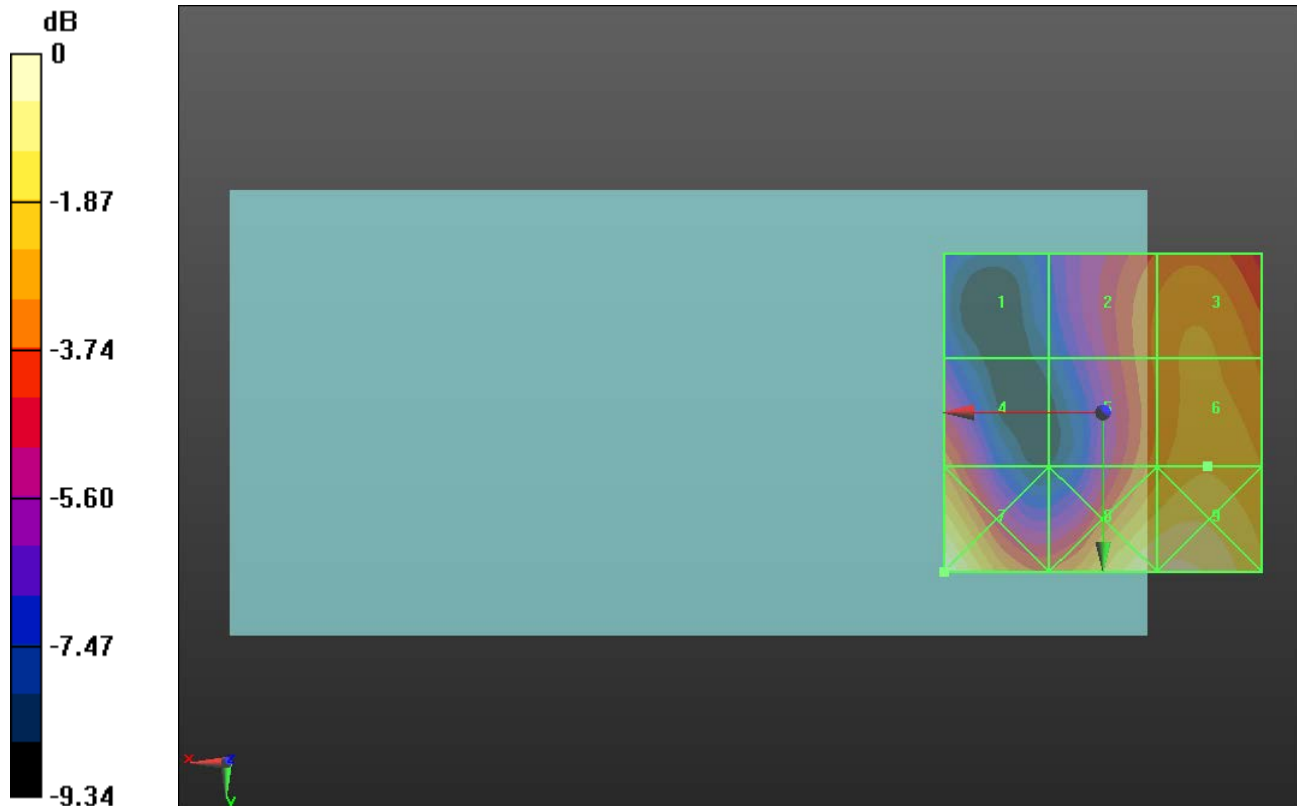
Applied MIF = -1.44 dB

RF audio interference level = 21.64 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>17.04 dBV/m</b>	Grid 2 <b>M4</b> <b>20.63 dBV/m</b>	Grid 3 <b>M4</b> <b>21.22 dBV/m</b>
Grid 4 <b>M4</b> <b>20.32 dBV/m</b>	Grid 5 <b>M4</b> <b>20.82 dBV/m</b>	Grid 6 <b>M4</b> <b>21.64 dBV/m</b>
Grid 7 <b>M4</b> <b>23.56 dBV/m</b>	Grid 8 <b>M4</b> <b>22.99 dBV/m</b>	Grid 9 <b>M4</b> <b>23.1 dBV/m</b>



0 dB = 15.07 V/m = 23.56 dBV/m

### HAC-RF Emission

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2636.5 MHz; Duty Cycle: 1:8.87156

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/14/2015;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1380; Calibrated: 7/13/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

### LTE TDD Band 41\_20 MHz BW E-Field measurement/16QAM\_RB 1/50\_ch 41055/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 = 10.23 V/m; Power Drift = -0.02 dB

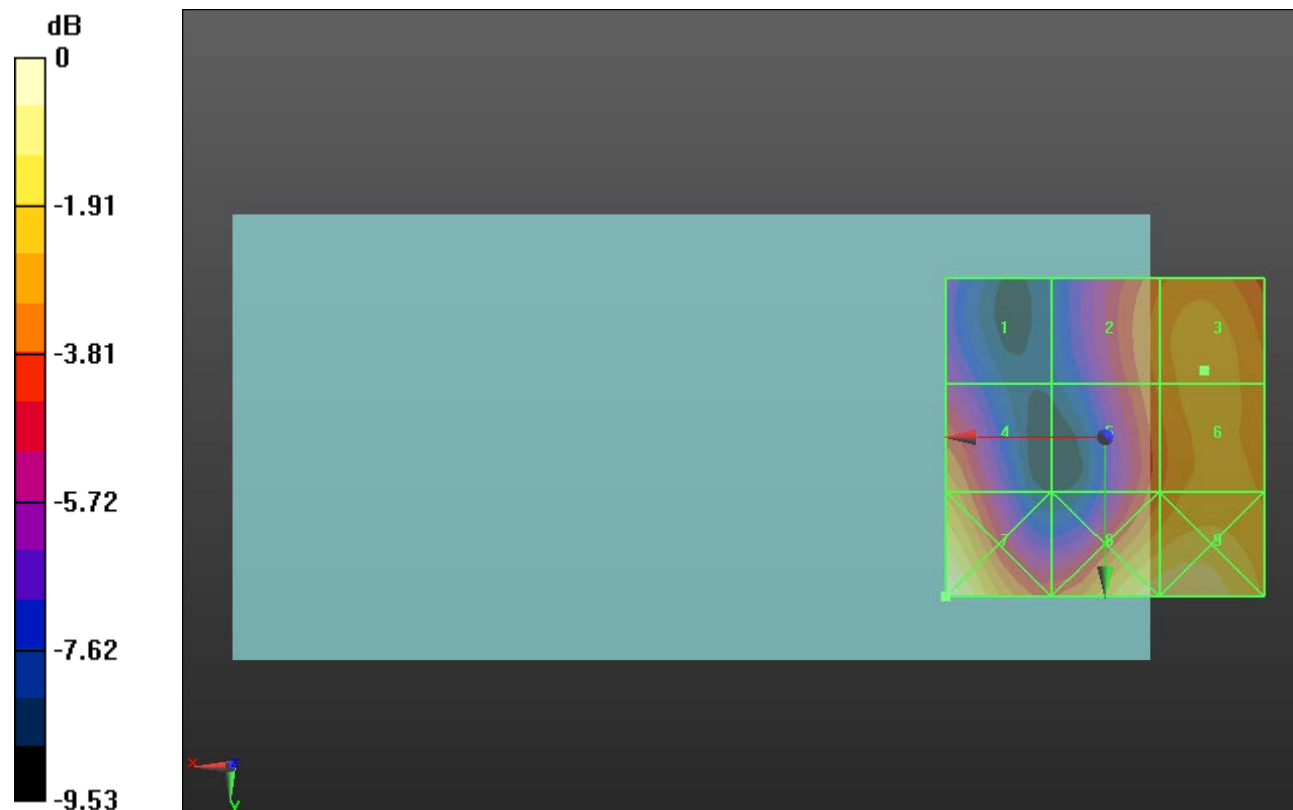
Applied MIF = -1.44 dB

RF audio interference level = 22.63 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>19.4 dBV/m</b>	Grid 2 <b>M4</b> <b>21.95 dBV/m</b>	Grid 3 <b>M4</b> <b>22.63 dBV/m</b>
Grid 4 <b>M4</b> <b>22.11 dBV/m</b>	Grid 5 <b>M4</b> <b>21.75 dBV/m</b>	Grid 6 <b>M4</b> <b>22.6 dBV/m</b>
Grid 7 <b>M4</b> <b>24.79 dBV/m</b>	Grid 8 <b>M4</b> <b>23.99 dBV/m</b>	Grid 9 <b>M4</b> <b>24.1 dBV/m</b>



0 dB = 17.35 V/m = 24.79 dBV/m

## HAC-RF Emission

Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2689.9 MHz; Duty Cycle: 1:8.87156

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/14/2015;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1380; Calibrated: 7/13/2015
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

## LTE TDD Band 41\_20 MHz BW E-Field measurement/16QAM\_RB 1/50\_ch 41490/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 = 7.634 V/m; Power Drift = -0.10 dB

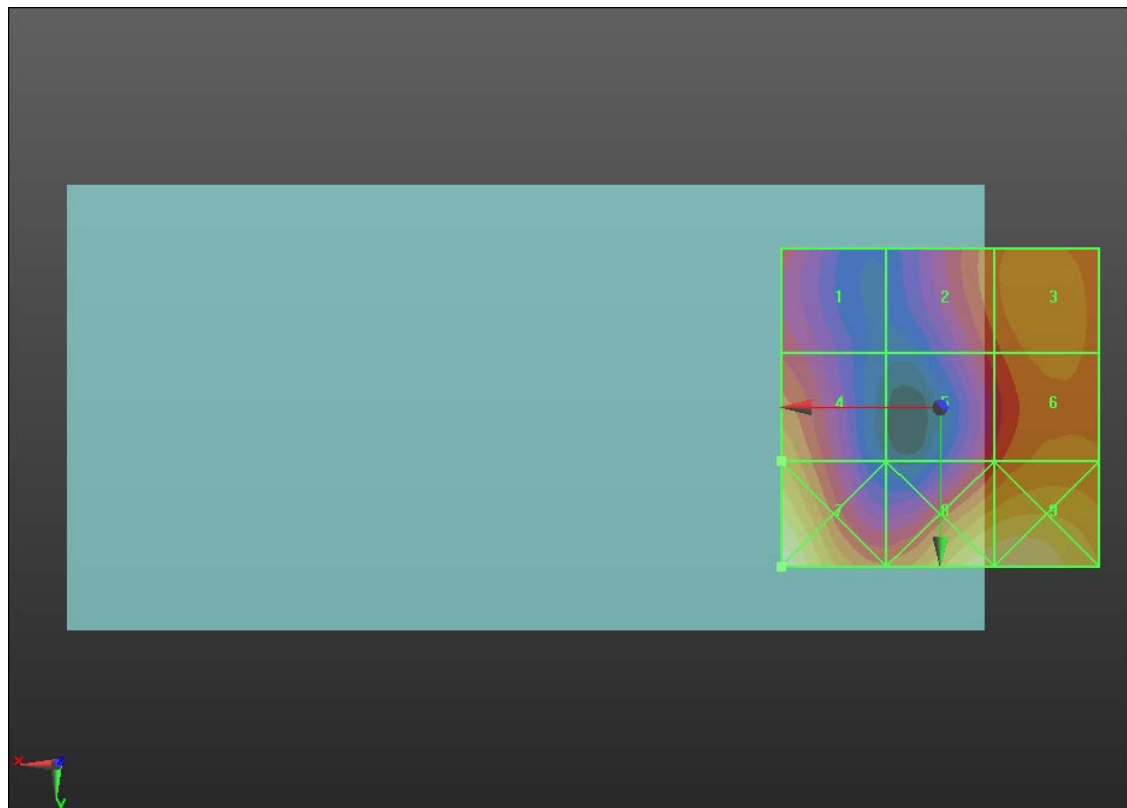
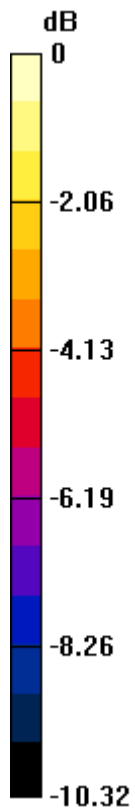
Applied MIF = -1.44 dB

RF audio interference level = 22.31 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>20.17 dBV/m</b>	Grid 2 <b>M4</b> <b>21.38 dBV/m</b>	Grid 3 <b>M4</b> <b>22.1 dBV/m</b>
Grid 4 <b>M4</b> <b>22.31 dBV/m</b>	Grid 5 <b>M4</b> <b>20.53 dBV/m</b>	Grid 6 <b>M4</b> <b>21.76 dBV/m</b>
Grid 7 <b>M4</b> <b>24.94 dBV/m</b>	Grid 8 <b>M4</b> <b>24.24 dBV/m</b>	Grid 9 <b>M4</b> <b>24.34 dBV/m</b>



0 dB = 17.67 V/m = 24.94 dBV/m