

## HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 = 54.10 V/m; Power Drift = 0.00 dB

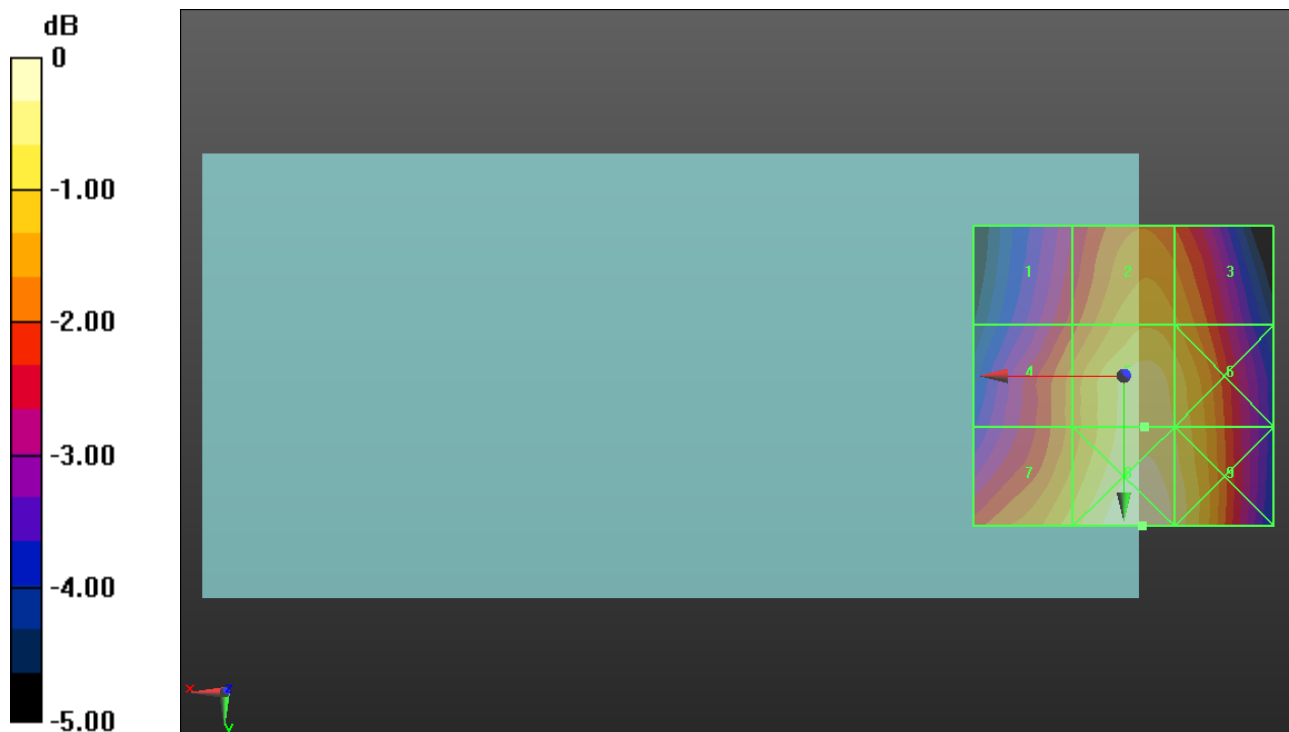
Applied MIF = 3.63 dB

RF audio interference level = 35.73 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>34.02 dBV/m</b>	Grid 2 <b>M4</b> <b>35.13 dBV/m</b>	Grid 3 <b>M4</b> <b>34.91 dBV/m</b>
Grid 4 <b>M4</b> <b>34.66 dBV/m</b>	Grid 5 <b>M4</b> <b>35.73 dBV/m</b>	Grid 6 <b>M4</b> <b>35.48 dBV/m</b>
Grid 7 <b>M4</b> <b>35.36 dBV/m</b>	Grid 8 <b>M4</b> <b>36.15 dBV/m</b>	Grid 9 <b>M4</b> <b>35.75 dBV/m</b>



0 dB = 64.18 V/m = 36.15 dBV/m

### HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 = 54.94 V/m; Power Drift = 0.01 dB

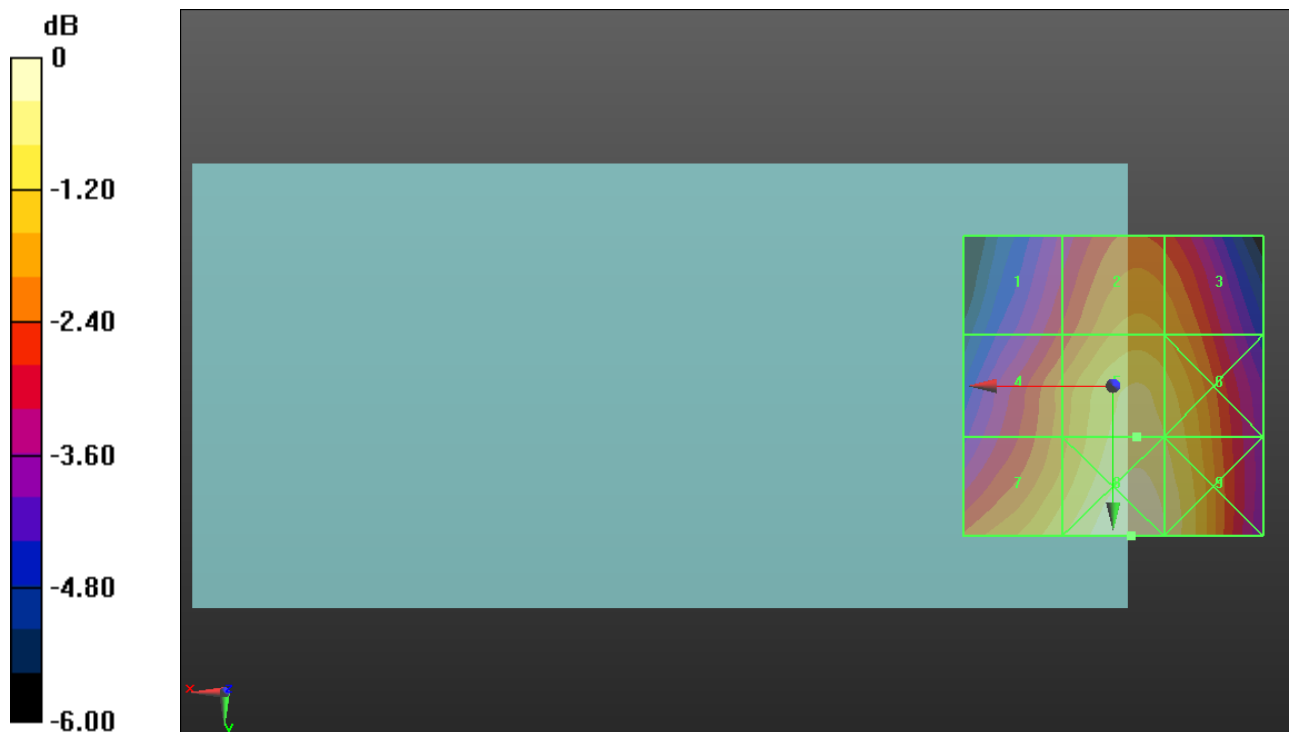
Applied MIF = 3.63 dB

RF audio interference level = 35.98 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>33.9 dBV/m</b>	Grid 2 <b>M4</b> <b>35.18 dBV/m</b>	Grid 3 <b>M4</b> <b>34.98 dBV/m</b>
Grid 4 <b>M4</b> <b>34.81 dBV/m</b>	Grid 5 <b>M4</b> <b>35.98 dBV/m</b>	Grid 6 <b>M4</b> <b>35.76 dBV/m</b>
Grid 7 <b>M4</b> <b>35.71 dBV/m</b>	Grid 8 <b>M4</b> <b>36.55 dBV/m</b>	Grid 9 <b>M4</b> <b>36.17 dBV/m</b>



0 dB = 67.21 V/m = 36.55 dBV/m

## HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 = 52.39 V/m; Power Drift = 0.00 dB

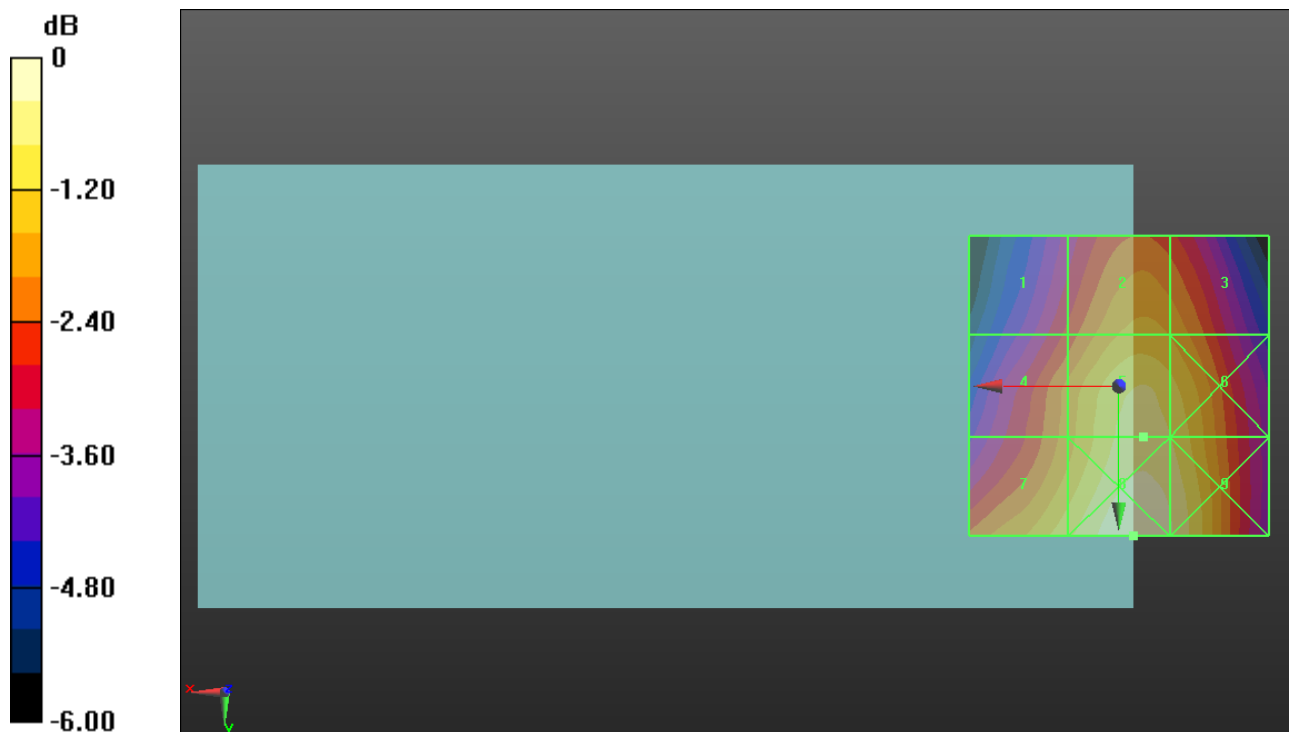
Applied MIF = 3.63 dB

RF audio interference level = 35.55 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>33.49 dBV/m</b>	Grid 2 <b>M4</b> <b>34.72 dBV/m</b>	Grid 3 <b>M4</b> <b>34.51 dBV/m</b>
Grid 4 <b>M4</b> <b>34.35 dBV/m</b>	Grid 5 <b>M4</b> <b>35.55 dBV/m</b>	Grid 6 <b>M4</b> <b>35.34 dBV/m</b>
Grid 7 <b>M4</b> <b>35.24 dBV/m</b>	Grid 8 <b>M4</b> <b>36.12 dBV/m</b>	Grid 9 <b>M4</b> <b>35.77 dBV/m</b>



0 dB = 63.97 V/m = 36.12 dBV/m

## HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 = 9.365 V/m; Power Drift = 0.13 dB

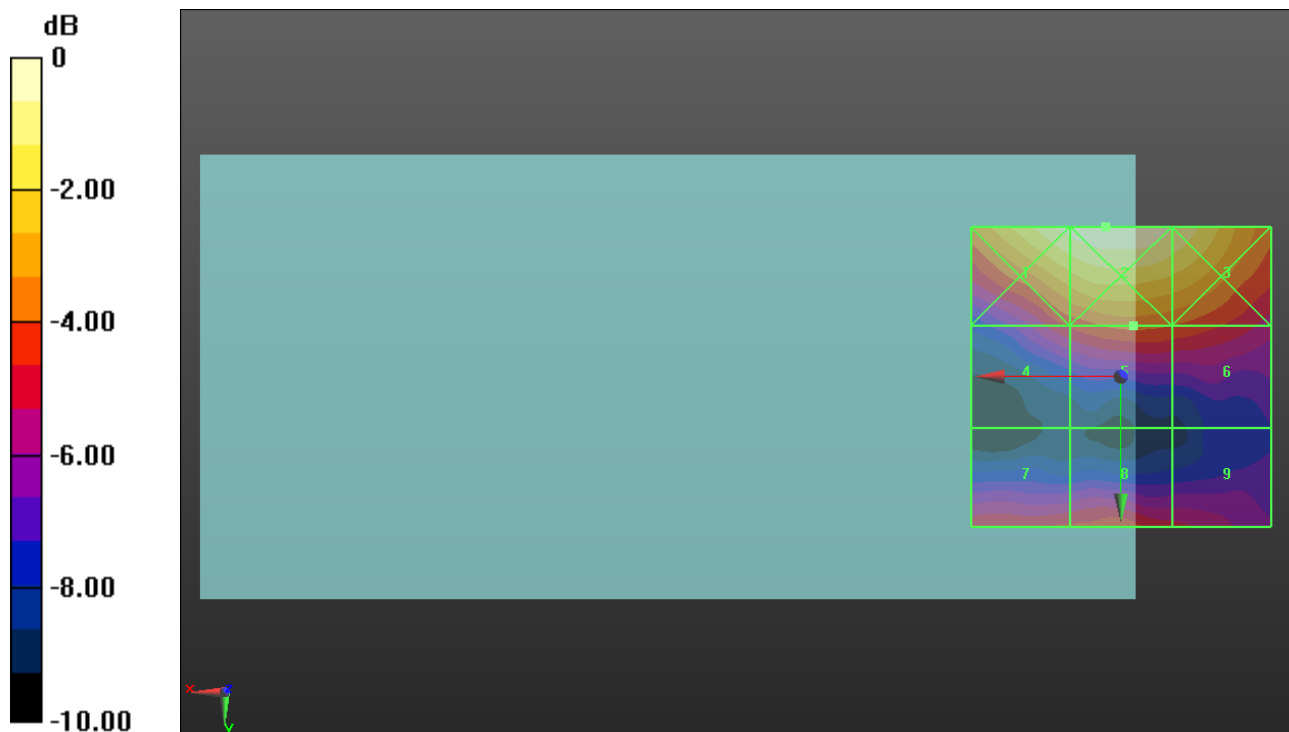
Applied MIF = 3.63 dB

RF audio interference level = 23.90 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>27.3 dBV/m</b>	Grid 2 <b>M4</b> <b>27.66 dBV/m</b>	Grid 3 <b>M4</b> <b>27.05 dBV/m</b>
Grid 4 <b>M4</b> <b>23.14 dBV/m</b>	Grid 5 <b>M4</b> <b>23.9 dBV/m</b>	Grid 6 <b>M4</b> <b>23.67 dBV/m</b>
Grid 7 <b>M4</b> <b>23.17 dBV/m</b>	Grid 8 <b>M4</b> <b>23.66 dBV/m</b>	Grid 9 <b>M4</b> <b>22.64 dBV/m</b>



0 dB = 24.16 V/m = 27.66 dBV/m

## HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 = 9.498 V/m; Power Drift = 0.38 dB

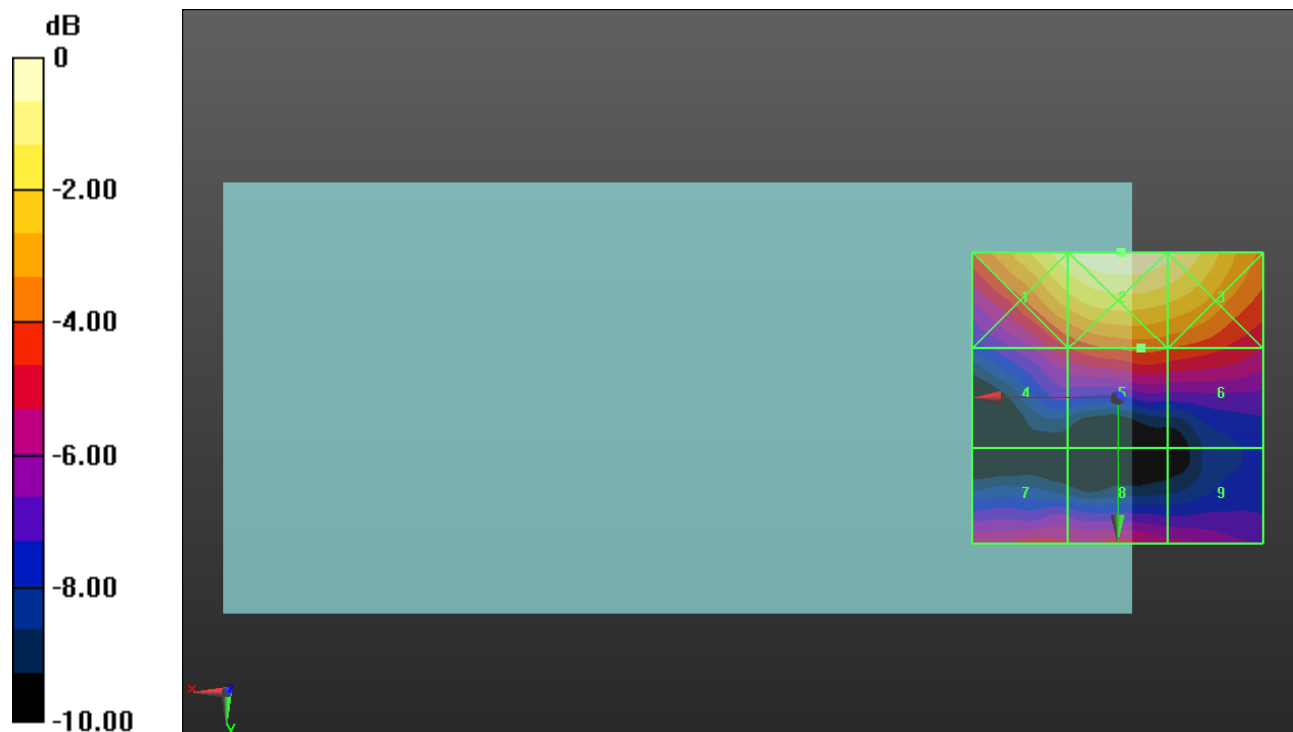
Applied MIF = 3.63 dB

RF audio interference level = 24.10 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>27.07 dBV/m</b>	Grid 2 <b>M4</b> <b>27.9 dBV/m</b>	Grid 3 <b>M4</b> <b>27.47 dBV/m</b>
Grid 4 <b>M4</b> <b>23.2 dBV/m</b>	Grid 5 <b>M4</b> <b>24.1 dBV/m</b>	Grid 6 <b>M4</b> <b>23.94 dBV/m</b>
Grid 7 <b>M4</b> <b>22.94 dBV/m</b>	Grid 8 <b>M4</b> <b>22.99 dBV/m</b>	Grid 9 <b>M4</b> <b>22.32 dBV/m</b>



0 dB = 24.82 V/m = 27.90 dBV/m

## HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 = 10.29 V/m; Power Drift = -0.13 dB

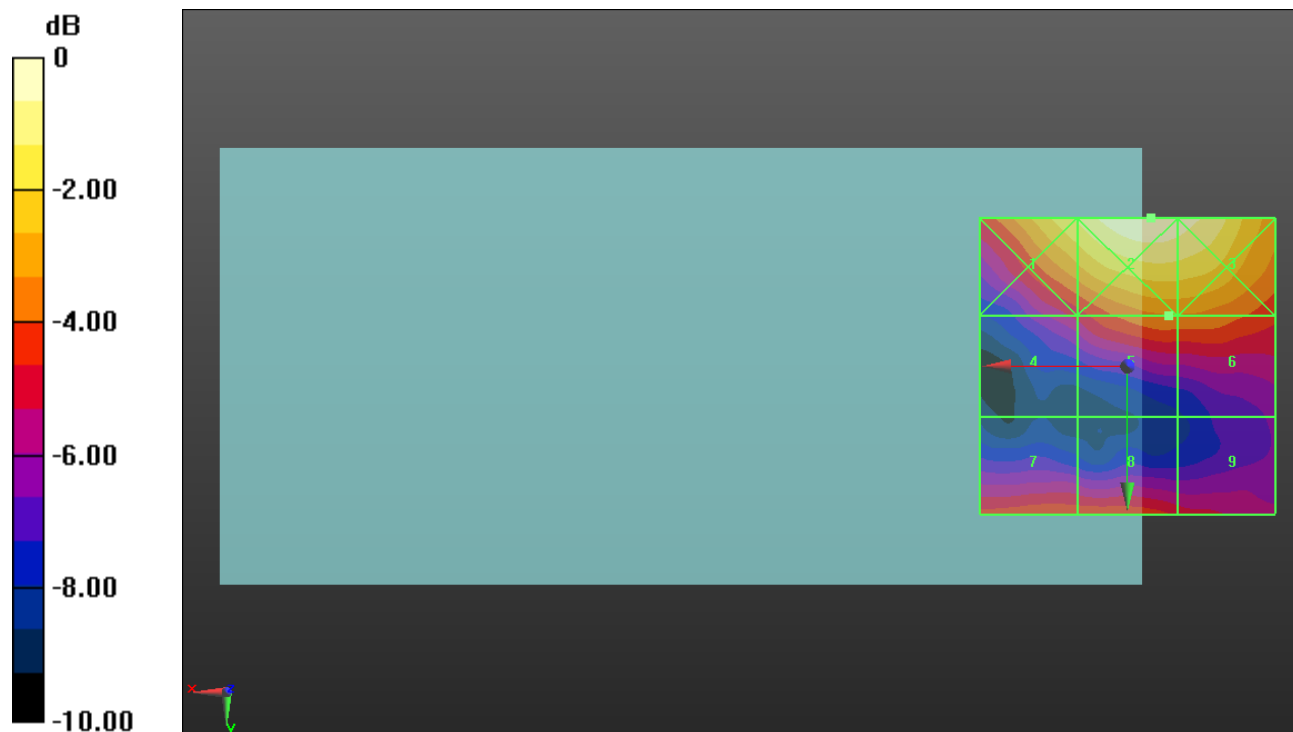
Applied MIF = 3.63 dB

RF audio interference level = 24.13 dBV/m

**Emission category: M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>26.29 dBV/m</b>	<b>Grid 2 M4</b> <b>27.5 dBV/m</b>	<b>Grid 3 M4</b> <b>27.2 dBV/m</b>
<b>Grid 4 M4</b> <b>22.43 dBV/m</b>	<b>Grid 5 M4</b> <b>24.13 dBV/m</b>	<b>Grid 6 M4</b> <b>24.12 dBV/m</b>
<b>Grid 7 M4</b> <b>23.46 dBV/m</b>	<b>Grid 8 M4</b> <b>23.42 dBV/m</b>	<b>Grid 9 M4</b> <b>22.64 dBV/m</b>



0 dB = 23.72 V/m = 27.50 dBV/m

## HAC-RF Emission

Communication System: UID 10173 - CAD, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2580 MHz; Duty Cycle: 1:8.87156

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 Band 38 E-Field measurement/LTE TDD\_16QAM\_RB 1/49\_ch 37850/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 = 7.848 V/m; Power Drift = -0.06 dB

Applied MIF = -1.44 dB

RF audio interference level = 16.21 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>16.01 dBV/m</b>	Grid 2 <b>M4</b> <b>17.59 dBV/m</b>	Grid 3 <b>M4</b> <b>17.31 dBV/m</b>
Grid 4 <b>M4</b> <b>13.63 dBV/m</b>	Grid 5 <b>M4</b> <b>16.21 dBV/m</b>	Grid 6 <b>M4</b> <b>16.22 dBV/m</b>
Grid 7 <b>M4</b> <b>13.21 dBV/m</b>	Grid 8 <b>M4</b> <b>13.02 dBV/m</b>	Grid 9 <b>M4</b> <b>13.64 dBV/m</b>



0 dB = 7.575 V/m = 17.59 dBV/m

## HAC-RF Emission

Communication System: UID 10173 - CAD, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2595 MHz; Duty Cycle: 1:8.87156

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 Band 38 E-Field measurement/LTE TDD\_16QAM\_RB 1/49\_ch 38000/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 = 7.151 V/m; Power Drift = 0.11 dB

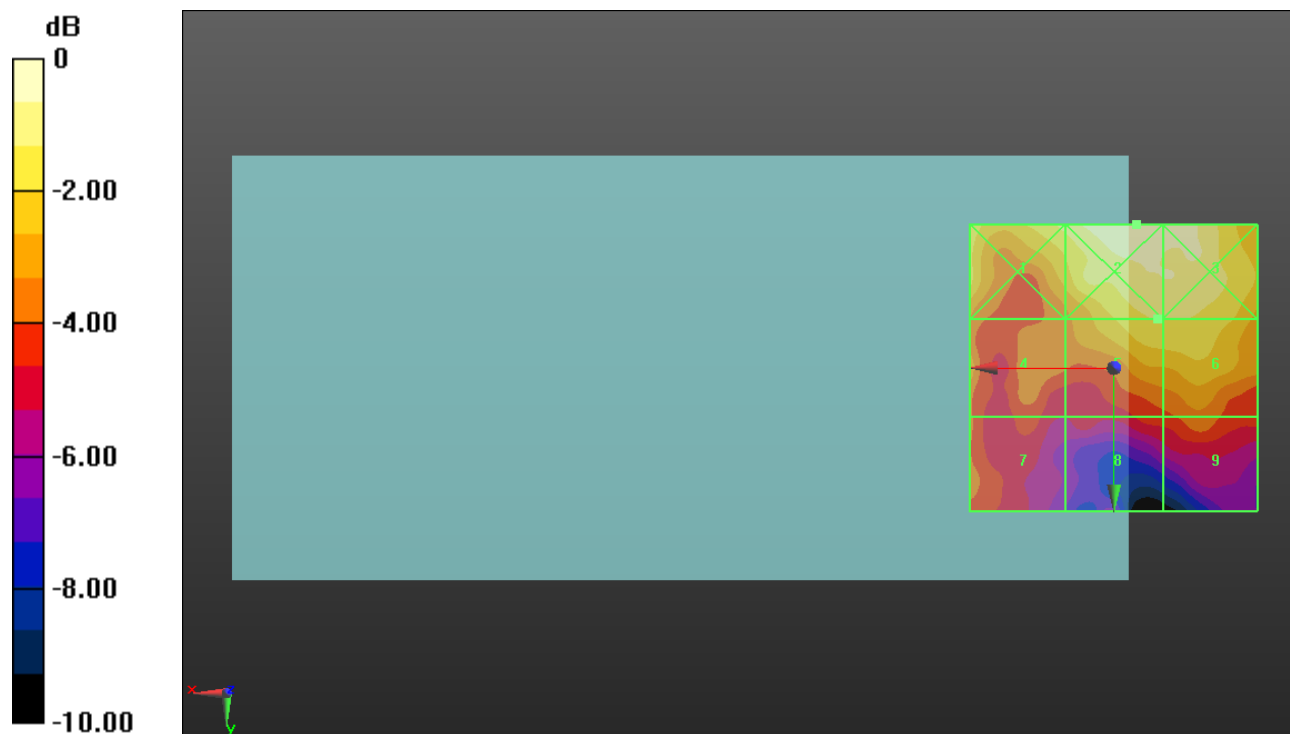
Applied MIF = -1.44 dB

RF audio interference level = 14.95 dBV/m

**Emission category: M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>15.21 dBV/m</b>	<b>Grid 2 M4</b> <b>16.27 dBV/m</b>	<b>Grid 3 M4</b> <b>16.1 dBV/m</b>
<b>Grid 4 M4</b> <b>13.4 dBV/m</b>	<b>Grid 5 M4</b> <b>14.95 dBV/m</b>	<b>Grid 6 M4</b> <b>14.94 dBV/m</b>
<b>Grid 7 M4</b> <b>12.69 dBV/m</b>	<b>Grid 8 M4</b> <b>12.05 dBV/m</b>	<b>Grid 9 M4</b> <b>12.85 dBV/m</b>



0 dB = 6.507 V/m = 16.27 dBV/m



### HAC-RF Emission

Communication System: UID 10173 - CAD, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2610 MHz; Duty Cycle: 1:8.87156

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 Band 38 E-Field measurement/LTE TDD\_16QAM\_RB 1/49\_ch 38150/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 = 7.691 V/m; Power Drift = -0.02 dB

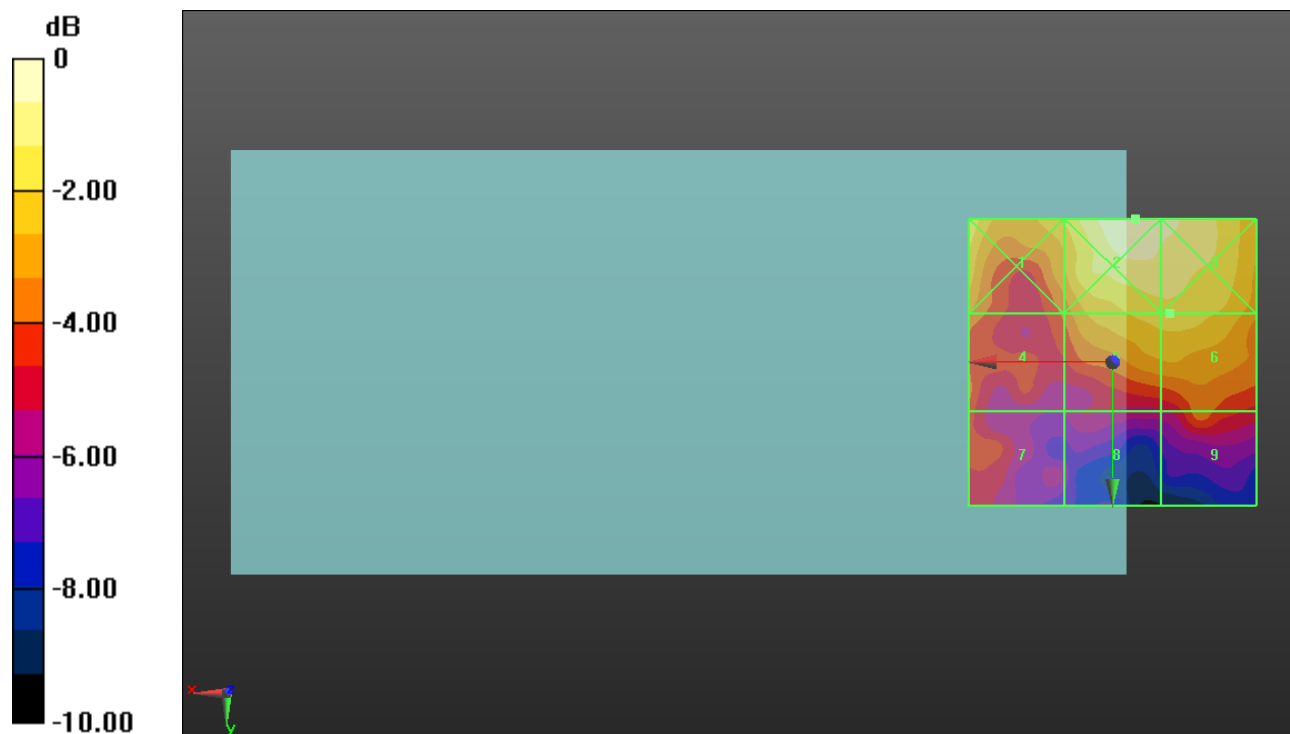
Applied MIF = -1.44 dB

RF audio interference level = 15.62 dBV/m

Emission category: **M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>16.08 dBV/m</b>	<b>Grid 2 M4</b> <b>17.23 dBV/m</b>	<b>Grid 3 M4</b> <b>16.91 dBV/m</b>
<b>Grid 4 M4</b> <b>13.94 dBV/m</b>	<b>Grid 5 M4</b> <b>15.6 dBV/m</b>	<b>Grid 6 M4</b> <b>15.62 dBV/m</b>
<b>Grid 7 M4</b> <b>12.99 dBV/m</b>	<b>Grid 8 M4</b> <b>11.94 dBV/m</b>	<b>Grid 9 M4</b> <b>13.58 dBV/m</b>



0 dB = 7.270 V/m = 17.23 dBV/m

## HAC-RF Emission

Communication System: UID 10173 - CAC, 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: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 Band 41 E-Field measurement/LTE TDD\_16QAM\_RB 1/49\_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 = 7.968 V/m; Power Drift = 0.28 dB

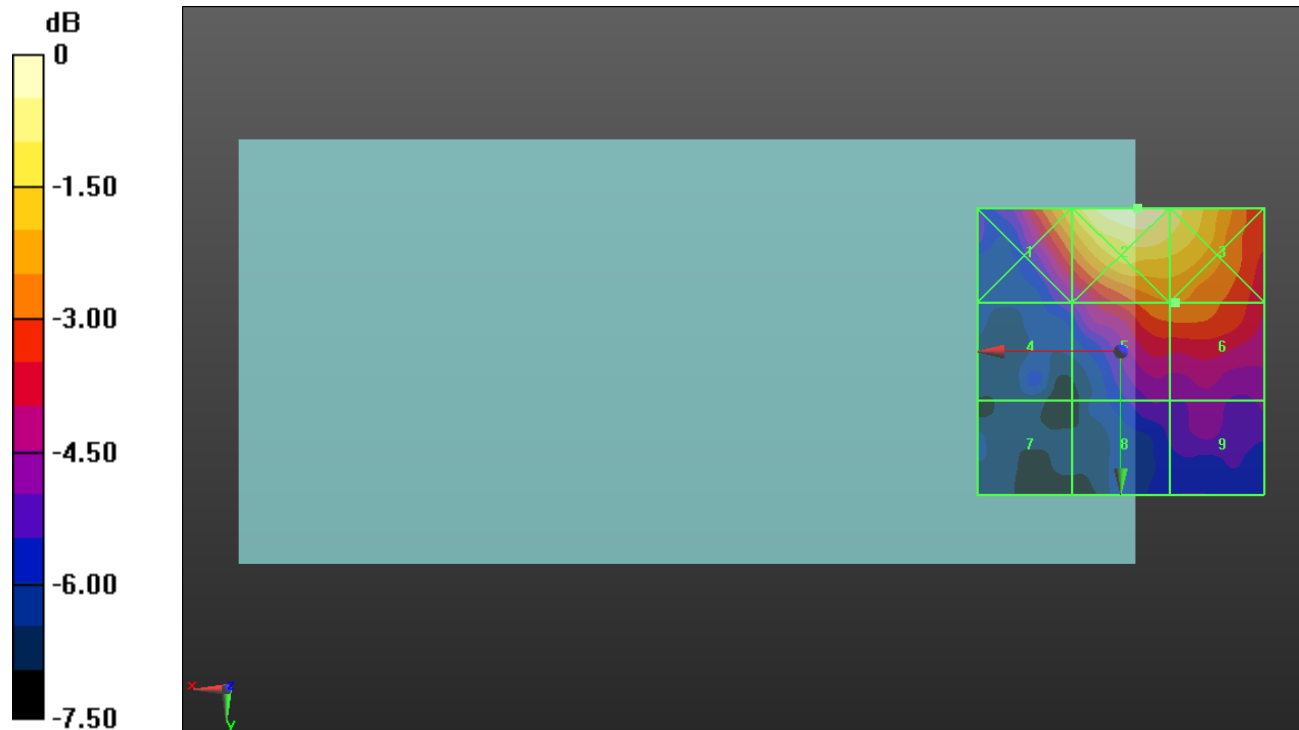
Applied MIF = -1.44 dB

RF audio interference level = 16.56 dBV/m

**Emission category: M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>17.66 dBV/m</b>	<b>Grid 2 M4</b> <b>19.06 dBV/m</b>	<b>Grid 3 M4</b> <b>18.41 dBV/m</b>
<b>Grid 4 M4</b> <b>14.16 dBV/m</b>	<b>Grid 5 M4</b> <b>16.55 dBV/m</b>	<b>Grid 6 M4</b> <b>16.55 dBV/m</b>
<b>Grid 7 M4</b> <b>12.8 dBV/m</b>	<b>Grid 8 M4</b> <b>14.13 dBV/m</b>	<b>Grid 9 M4</b> <b>14.58 dBV/m</b>



0 dB = 8.976 V/m = 19.06 dBV/m

### HAC-RF Emission

Communication System: UID 10173 - CAC, 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: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 Band 41 E-Field measurement/LTE TDD\_16QAM\_RB 1/49\_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 = 7.611 V/m; Power Drift = 0.22 dB

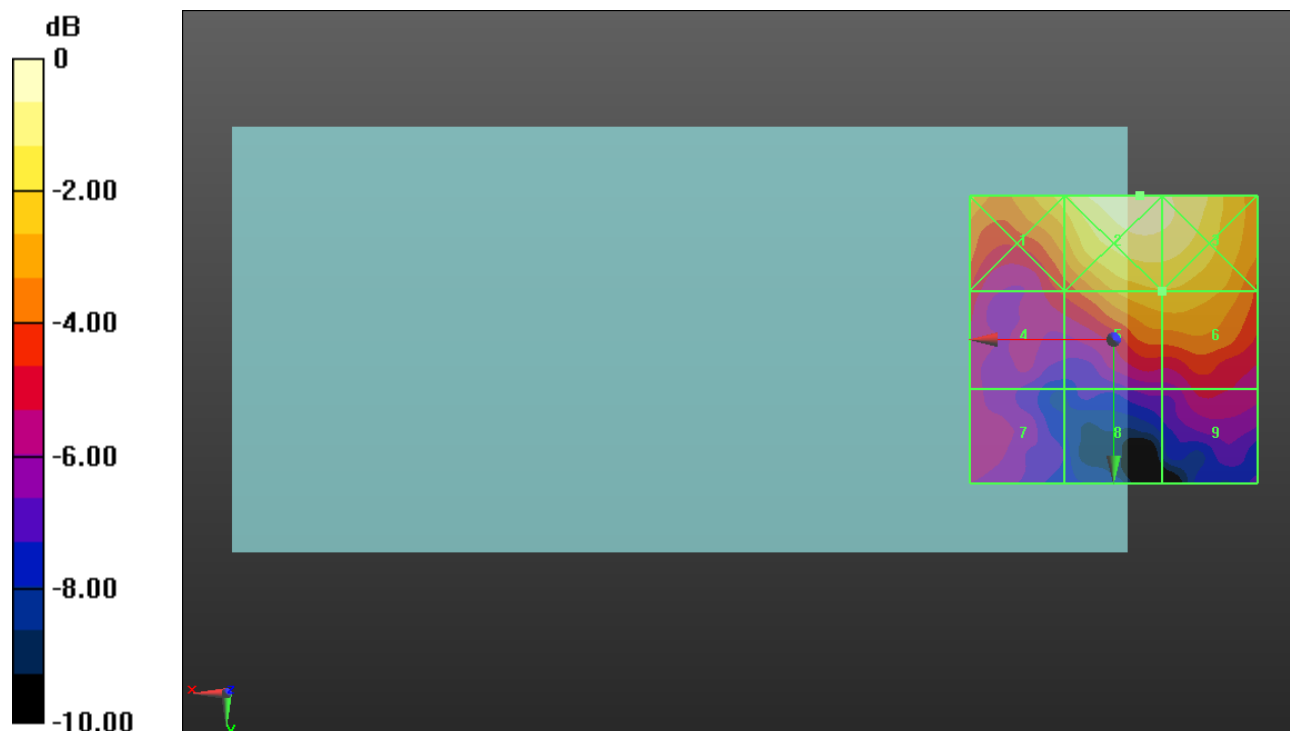
Applied MIF = -1.44 dB

RF audio interference level = 16.66 dBV/m

Emission category: **M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>17.14 dBV/m</b>	<b>Grid 2 M4</b> <b>18.7 dBV/m</b>	<b>Grid 3 M4</b> <b>18.26 dBV/m</b>
<b>Grid 4 M4</b> <b>14.29 dBV/m</b>	<b>Grid 5 M4</b> <b>16.66 dBV/m</b>	<b>Grid 6 M4</b> <b>16.66 dBV/m</b>
<b>Grid 7 M4</b> <b>13.3 dBV/m</b>	<b>Grid 8 M4</b> <b>12.41 dBV/m</b>	<b>Grid 9 M4</b> <b>13.66 dBV/m</b>



0 dB = 8.611 V/m = 18.70 dBV/m

### HAC-RF Emission

Communication System: UID 10173 - CAC, 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: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 Band 41 E-Field measurement/LTE TDD\_16QAM\_RB 1/49\_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 = 7.457 V/m; Power Drift = -0.06 dB

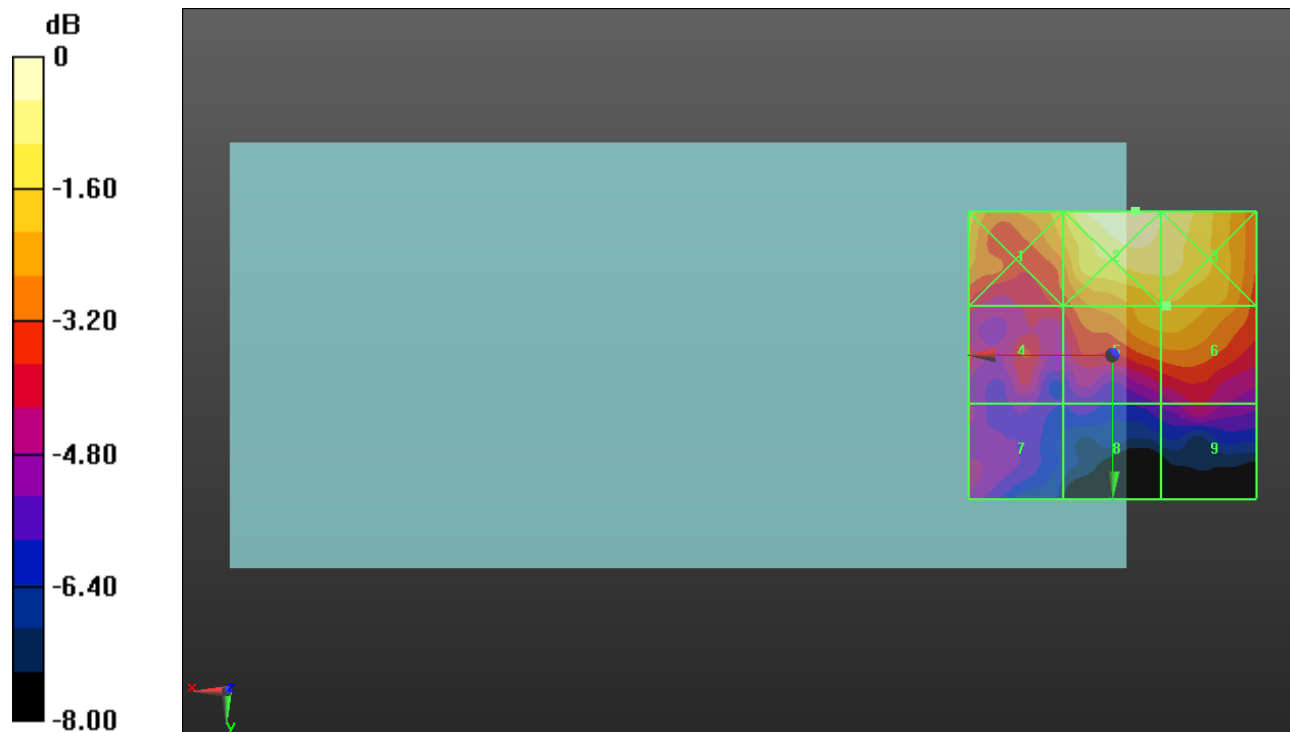
Applied MIF = -1.44 dB

RF audio interference level = 15.30 dBV/m

Emission category: **M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>15.33 dBV/m</b>	<b>Grid 2 M4</b> <b>16.96 dBV/m</b>	<b>Grid 3 M4</b> <b>16.62 dBV/m</b>
<b>Grid 4 M4</b> <b>13.45 dBV/m</b>	<b>Grid 5 M4</b> <b>15.29 dBV/m</b>	<b>Grid 6 M4</b> <b>15.3 dBV/m</b>
<b>Grid 7 M4</b> <b>12.54 dBV/m</b>	<b>Grid 8 M4</b> <b>11.79 dBV/m</b>	<b>Grid 9 M4</b> <b>12.84 dBV/m</b>



0 dB = 7.050 V/m = 16.96 dBV/m

### HAC-RF Emission

Communication System: UID 10173 - CAC, 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: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 Band 41 E-Field measurement/LTE TDD\_16QAM\_RB 1/49\_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 = 8.668 V/m; Power Drift = -0.15 dB

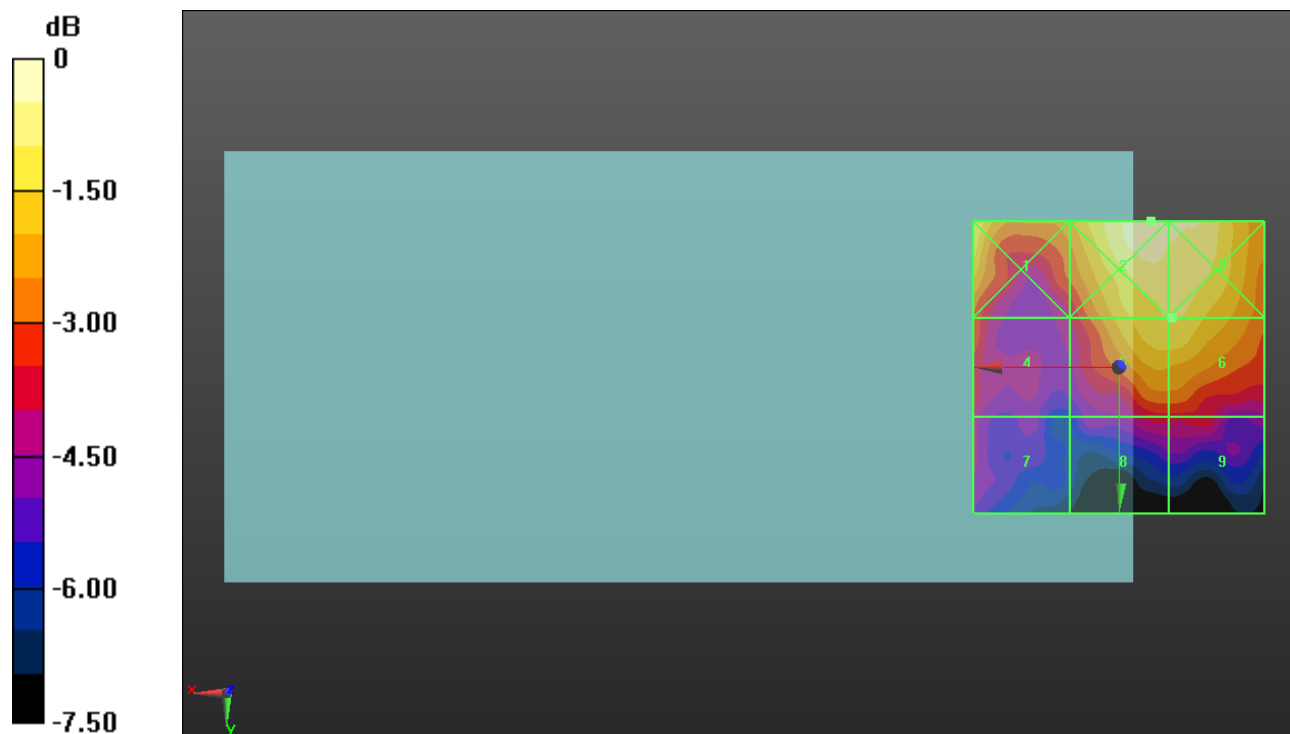
Applied MIF = -1.44 dB

RF audio interference level = 16.50 dBV/m

**Emission category: M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>16.83 dBV/m</b>	<b>Grid 2 M4</b> <b>17.46 dBV/m</b>	<b>Grid 3 M4</b> <b>17.16 dBV/m</b>
<b>Grid 4 M4</b> <b>14.53 dBV/m</b>	<b>Grid 5 M4</b> <b>16.5 dBV/m</b>	<b>Grid 6 M4</b> <b>16.5 dBV/m</b>
<b>Grid 7 M4</b> <b>13.41 dBV/m</b>	<b>Grid 8 M4</b> <b>13.81 dBV/m</b>	<b>Grid 9 M4</b> <b>13.85 dBV/m</b>



0 dB = 7.463 V/m = 17.46 dBV/m

### HAC-RF Emission

Communication System: UID 10173 - CAC, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2680 MHz; Duty Cycle: 1:8.87156

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 Band 41 E-Field measurement/LTE TDD\_16QAM\_RB 1/49\_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 = 8.340 V/m; Power Drift = -0.28 dB

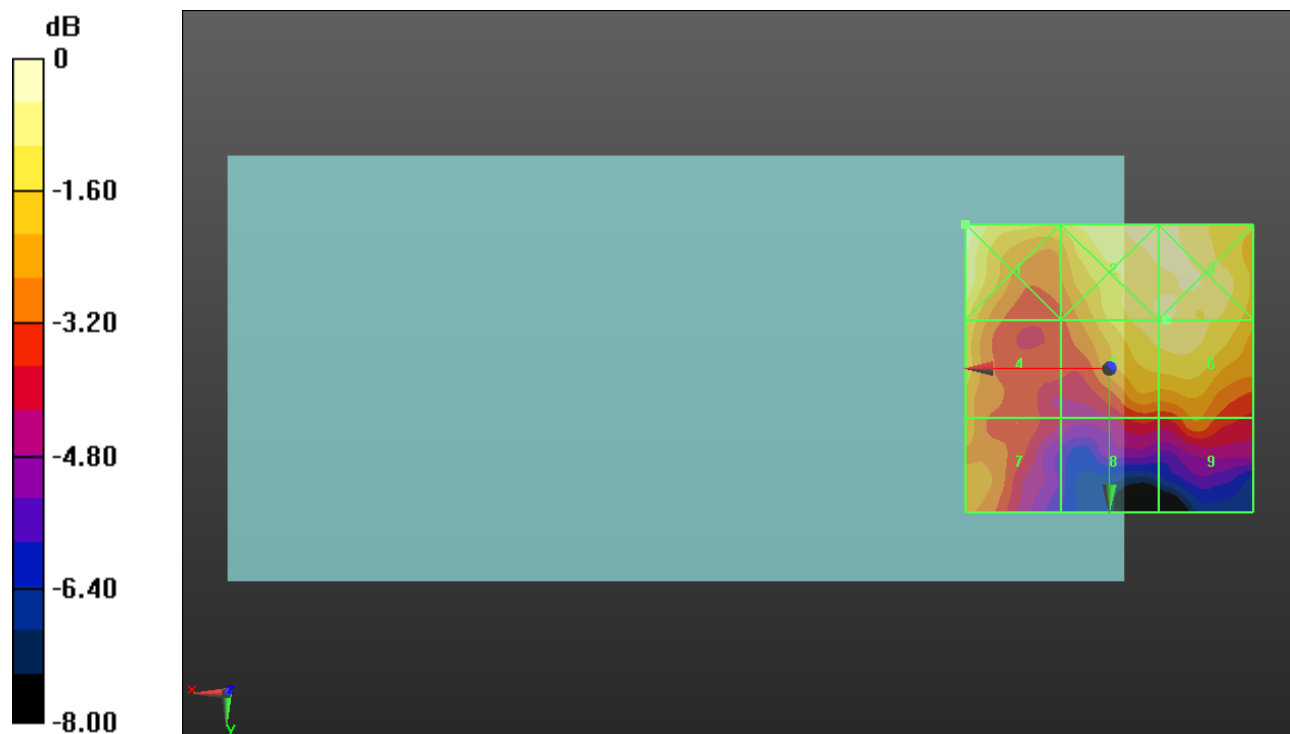
Applied MIF = -1.44 dB

RF audio interference level = 15.67 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>16.21 dBV/m</b>	Grid 2 <b>M4</b> <b>15.93 dBV/m</b>	Grid 3 <b>M4</b> <b>15.9 dBV/m</b>
Grid 4 <b>M4</b> <b>14.81 dBV/m</b>	Grid 5 <b>M4</b> <b>15.62 dBV/m</b>	Grid 6 <b>M4</b> <b>15.67 dBV/m</b>
Grid 7 <b>M4</b> <b>14.07 dBV/m</b>	Grid 8 <b>M4</b> <b>12.78 dBV/m</b>	Grid 9 <b>M4</b> <b>13.65 dBV/m</b>



0 dB = 6.465 V/m = 16.21 dBV/m

## HAC-RF Emission

Communication System: UID 10077 - CAB, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2412 MHz; Duty Cycle: 1:12.5893

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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)

### 802.11g\_ANT 1 E-Field measurement/IEEE 802.11g\_OFDM 54 Mbps\_ch 1/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 = 15.23 V/m; Power Drift = -0.10 dB

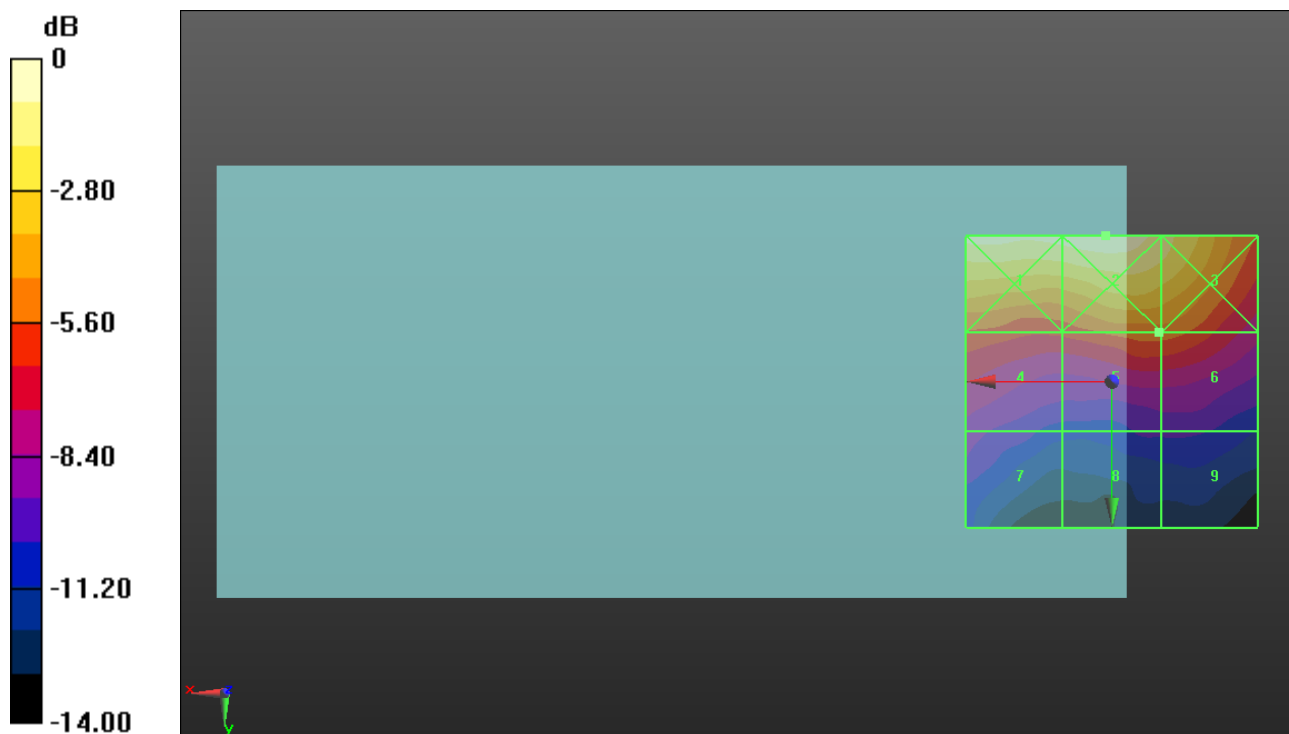
Applied MIF = 0.12 dB

RF audio interference level = 25.75 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M3</b> <b>30.33 dBV/m</b>	Grid 2 <b>M3</b> <b>30.81 dBV/m</b>	Grid 3 <b>M4</b> <b>29.43 dBV/m</b>
Grid 4 <b>M4</b> <b>25.17 dBV/m</b>	Grid 5 <b>M4</b> <b>25.75 dBV/m</b>	Grid 6 <b>M4</b> <b>25.74 dBV/m</b>
Grid 7 <b>M4</b> <b>22.11 dBV/m</b>	Grid 8 <b>M4</b> <b>20.81 dBV/m</b>	Grid 9 <b>M4</b> <b>20.82 dBV/m</b>



0 dB = 34.73 V/m = 30.81 dBV/m

### HAC-RF Emission

Communication System: UID 10077 - CAB, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2437 MHz; Duty Cycle: 1:12.5893

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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)

### 802.11g\_ANT 1 E-Field measurement/IEEE 802.11g\_OFDM 54 Mbps\_ch 6/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 = 14.97 V/m; Power Drift = 0.20 dB

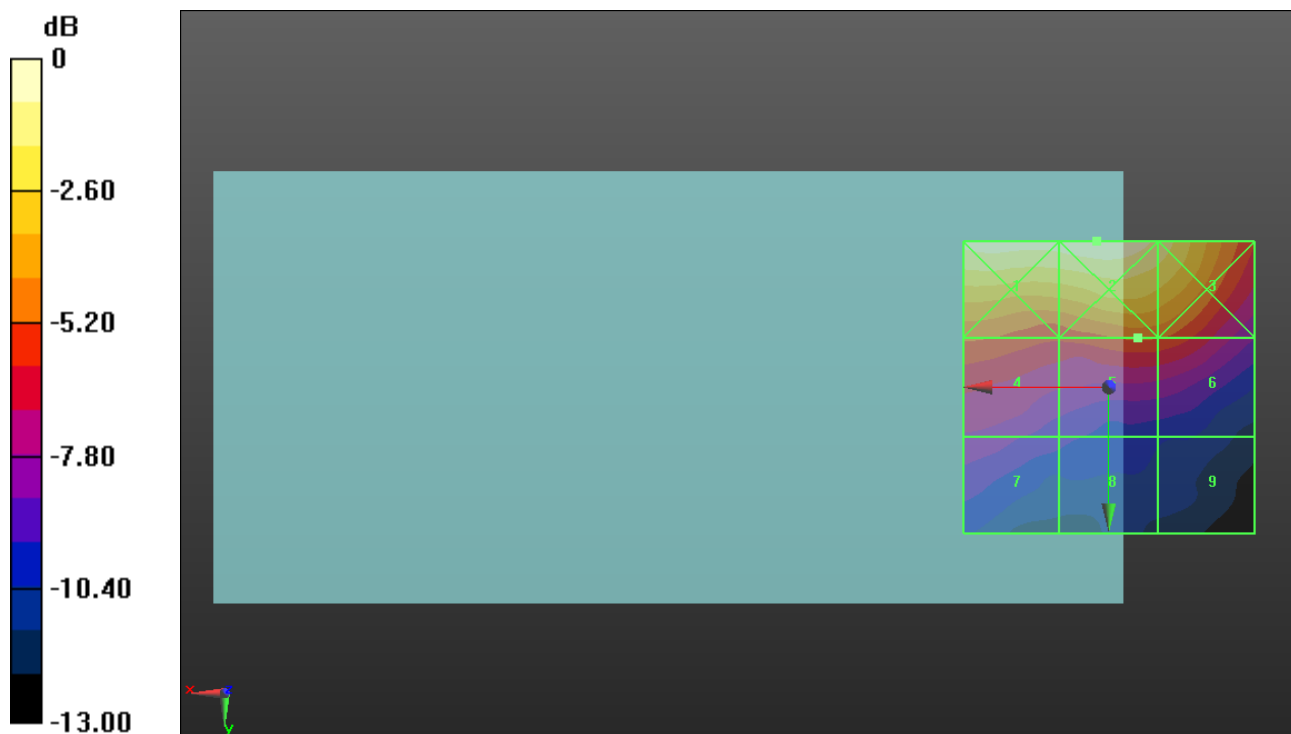
Applied MIF = 0.12 dB

RF audio interference level = 25.16 dBV/m

Emission category: **M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>29.77 dBV/m</b>	<b>Grid 2 M3</b> <b>30.13 dBV/m</b>	<b>Grid 3 M4</b> <b>29.04 dBV/m</b>
<b>Grid 4 M4</b> <b>25.13 dBV/m</b>	<b>Grid 5 M4</b> <b>25.16 dBV/m</b>	<b>Grid 6 M4</b> <b>25.02 dBV/m</b>
<b>Grid 7 M4</b> <b>22.25 dBV/m</b>	<b>Grid 8 M4</b> <b>20.98 dBV/m</b>	<b>Grid 9 M4</b> <b>20.02 dBV/m</b>



0 dB = 32.10 V/m = 30.13 dBV/m



### HAC-RF Emission

Communication System: UID 10077 - CAB, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2462 MHz; Duty Cycle: 1:12.5893

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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)

### 802.11g\_ANT 1 E-Field measurement/IEEE 802.11g\_OFDM 54 Mbps\_ch 11/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 = 14.47 V/m; Power Drift = 0.07 dB

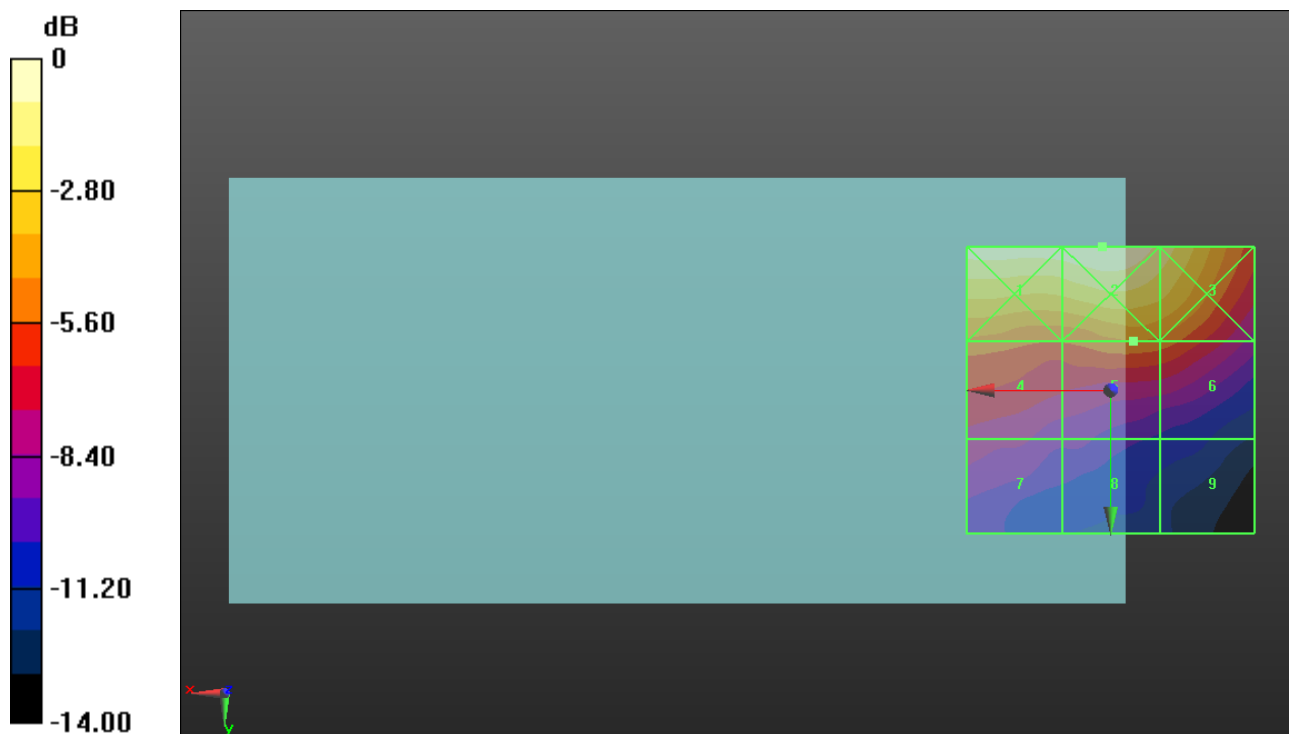
Applied MIF = 0.12 dB

RF audio interference level = 24.71 dBV/m

Emission category: **M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>29.19 dBV/m</b>	<b>Grid 2 M4</b> <b>29.38 dBV/m</b>	<b>Grid 3 M4</b> <b>28.19 dBV/m</b>
<b>Grid 4 M4</b> <b>24.53 dBV/m</b>	<b>Grid 5 M4</b> <b>24.71 dBV/m</b>	<b>Grid 6 M4</b> <b>24.38 dBV/m</b>
<b>Grid 7 M4</b> <b>21.61 dBV/m</b>	<b>Grid 8 M4</b> <b>20.36 dBV/m</b>	<b>Grid 9 M4</b> <b>18.99 dBV/m</b>



0 dB = 29.43 V/m = 29.38 dBV/m

## HAC-RF Emission

Communication System: UID 10077 - CAB, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2412 MHz; Duty Cycle: 1:12.5893

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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)

### 802.11g\_ANT 2 E-Field measurement/IEEE 802.11g\_OFDM 54 Mbps\_ch 1/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 = 22.00 V/m; Power Drift = -0.05 dB

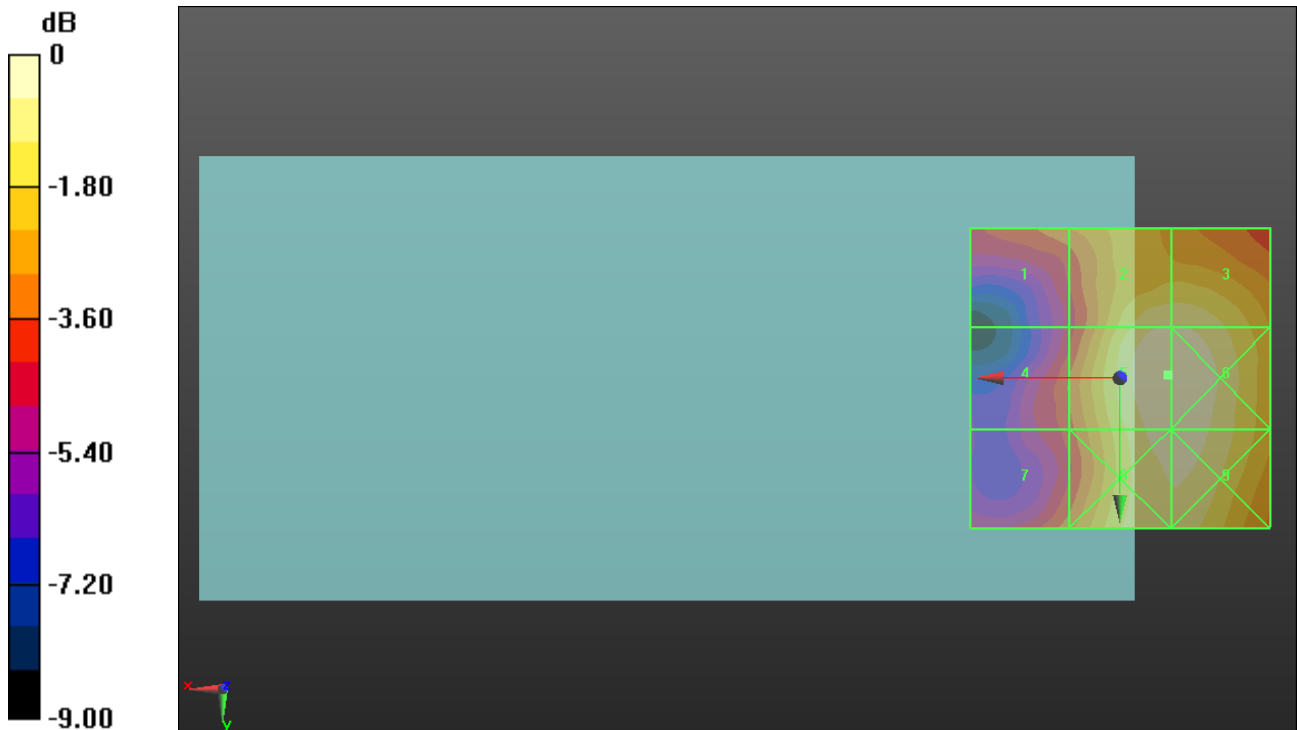
Applied MIF = 0.12 dB

RF audio interference level = 23.83 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>20.89 dBV/m</b>	Grid 2 <b>M4</b> <b>23.27 dBV/m</b>	Grid 3 <b>M4</b> <b>23.27 dBV/m</b>
Grid 4 <b>M4</b> <b>20.31 dBV/m</b>	Grid 5 <b>M4</b> <b>23.83 dBV/m</b>	Grid 6 <b>M4</b> <b>23.82 dBV/m</b>
Grid 7 <b>M4</b> <b>20.65 dBV/m</b>	Grid 8 <b>M4</b> <b>23.53 dBV/m</b>	Grid 9 <b>M4</b> <b>23.54 dBV/m</b>



0 dB = 15.53 V/m = 23.82 dBV/m

### HAC-RF Emission

Communication System: UID 10077 - CAB, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2437 MHz; Duty Cycle: 1:12.5893

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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)

### 802.11g\_ANT 2 E-Field measurement/IEEE 802.11g\_OFDM 54 Mbps\_ch 6/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 = 19.58 V/m; Power Drift = -0.04 dB

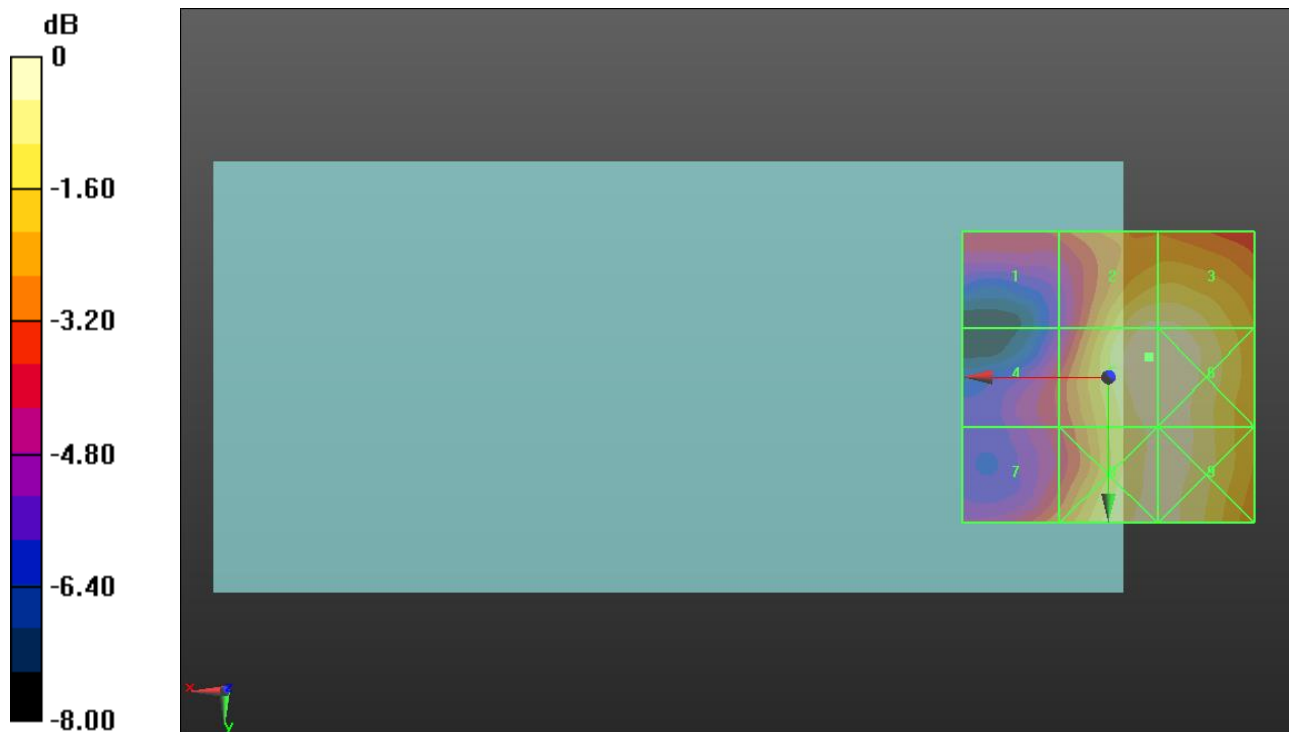
Applied MIF = 0.12 dB

RF audio interference level = 22.99 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>19.48 dBV/m</b>	Grid 2 <b>M4</b> <b>22.62 dBV/m</b>	Grid 3 <b>M4</b> <b>22.62 dBV/m</b>
Grid 4 <b>M4</b> <b>19.46 dBV/m</b>	Grid 5 <b>M4</b> <b>22.99 dBV/m</b>	Grid 6 <b>M4</b> <b>22.98 dBV/m</b>
Grid 7 <b>M4</b> <b>20.35 dBV/m</b>	Grid 8 <b>M4</b> <b>22.65 dBV/m</b>	Grid 9 <b>M4</b> <b>22.65 dBV/m</b>



0 dB = 14.11 V/m = 22.99 dBV/m

### HAC-RF Emission

Communication System: UID 10077 - CAB, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2462 MHz; Duty Cycle: 1:12.5893

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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)

### 802.11g\_ANT 2 E-Field measurement/IEEE 802.11g\_OFDM 54 Mbps\_ch 11/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 = 18.58 V/m; Power Drift = -0.08 dB

Applied MIF = 0.12 dB

RF audio interference level = 22.53 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>19.15 dBV/m</b>	Grid 2 <b>M4</b> <b>22.21 dBV/m</b>	Grid 3 <b>M4</b> <b>22.22 dBV/m</b>
Grid 4 <b>M4</b> <b>19.41 dBV/m</b>	Grid 5 <b>M4</b> <b>22.53 dBV/m</b>	Grid 6 <b>M4</b> <b>22.49 dBV/m</b>
Grid 7 <b>M4</b> <b>19.63 dBV/m</b>	Grid 8 <b>M4</b> <b>21.89 dBV/m</b>	Grid 9 <b>M4</b> <b>21.89 dBV/m</b>



0 dB = 13.38 V/m = 22.53 dBV/m

## HAC-RF Emission

Communication System: UID 10030 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH1); Frequency: 2402 MHz; Duty Cycle: 1:3.38844

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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)

### Bluetooth\_ANT 1 E-Field measurement/IEEE 802.15.1\_GFSK DH1\_ch 0/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 = 8.703 V/m; Power Drift = -1.91 dB

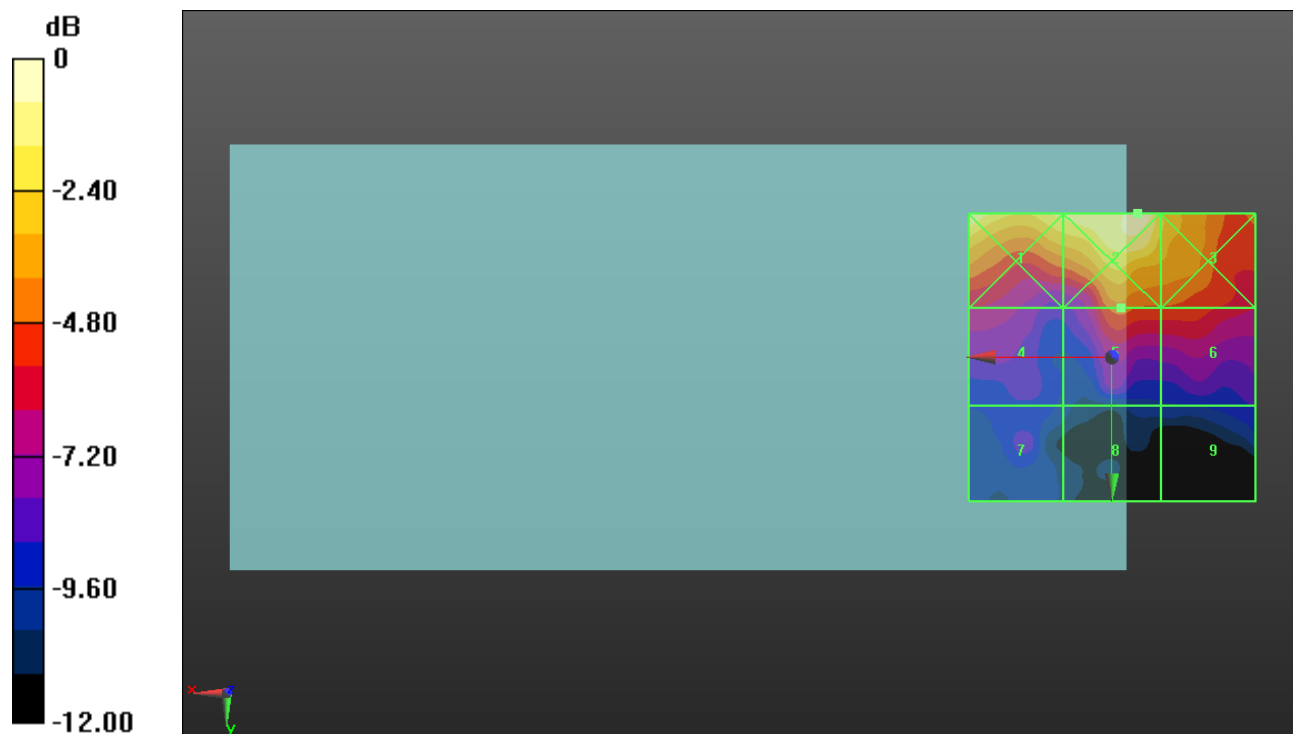
Applied MIF = 1.02 dB

RF audio interference level = 20.64 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>24.75 dBV/m</b>	Grid 2 <b>M4</b> <b>25.01 dBV/m</b>	Grid 3 <b>M4</b> <b>22.88 dBV/m</b>
Grid 4 <b>M4</b> <b>18.61 dBV/m</b>	Grid 5 <b>M4</b> <b>20.64 dBV/m</b>	Grid 6 <b>M4</b> <b>20.1 dBV/m</b>
Grid 7 <b>M4</b> <b>16.81 dBV/m</b>	Grid 8 <b>M4</b> <b>15.26 dBV/m</b>	Grid 9 <b>M4</b> <b>16.35 dBV/m</b>



0 dB = 17.81 V/m = 25.01 dBV/m

### HAC-RF Emission

Communication System: UID 10030 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH1); Frequency: 2441 MHz; Duty Cycle: 1:3.38844

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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)

### Bluetooth\_ANT 1 E-Field measurement/IEEE 802.15.1\_GFSK DH1\_ch 39/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 = 9.131 V/m; Power Drift = -1.45 dB

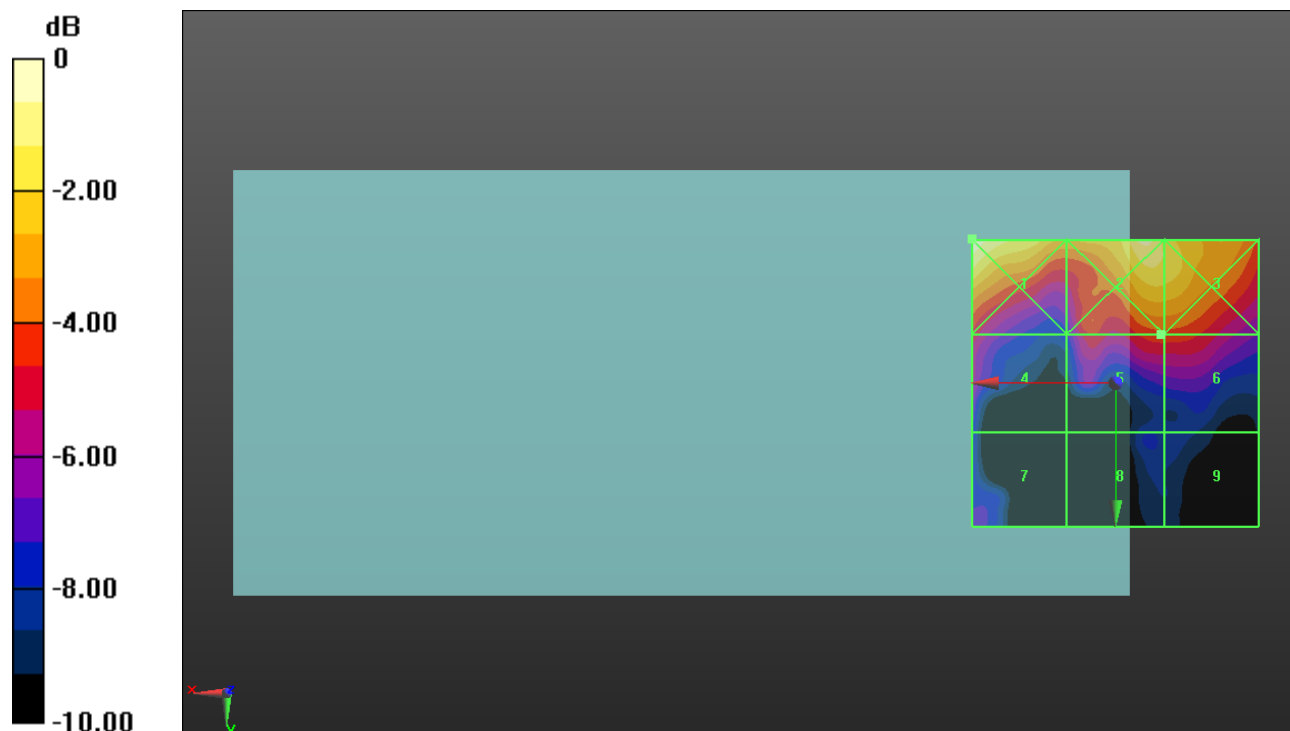
Applied MIF = 1.02 dB

RF audio interference level = 22.05 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>26.25 dBV/m</b>	Grid 2 <b>M4</b> <b>25.81 dBV/m</b>	Grid 3 <b>M4</b> <b>24.87 dBV/m</b>
Grid 4 <b>M4</b> <b>21.47 dBV/m</b>	Grid 5 <b>M4</b> <b>22.05 dBV/m</b>	Grid 6 <b>M4</b> <b>22.04 dBV/m</b>
Grid 7 <b>M4</b> <b>19.21 dBV/m</b>	Grid 8 <b>M4</b> <b>18.48 dBV/m</b>	Grid 9 <b>M4</b> <b>18 dBV/m</b>



0 dB = 20.53 V/m = 26.25 dBV/m

## HAC-RF Emission

Communication System: UID 10030 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH1); Frequency: 2480 MHz; Duty Cycle: 1:3.38844

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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)

### Bluetooth\_ANT 1 E-Field measurement/IEEE 802.15.1\_GFSK DH1\_ch 78/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 = 7.938 V/m; Power Drift = 0.02 dB

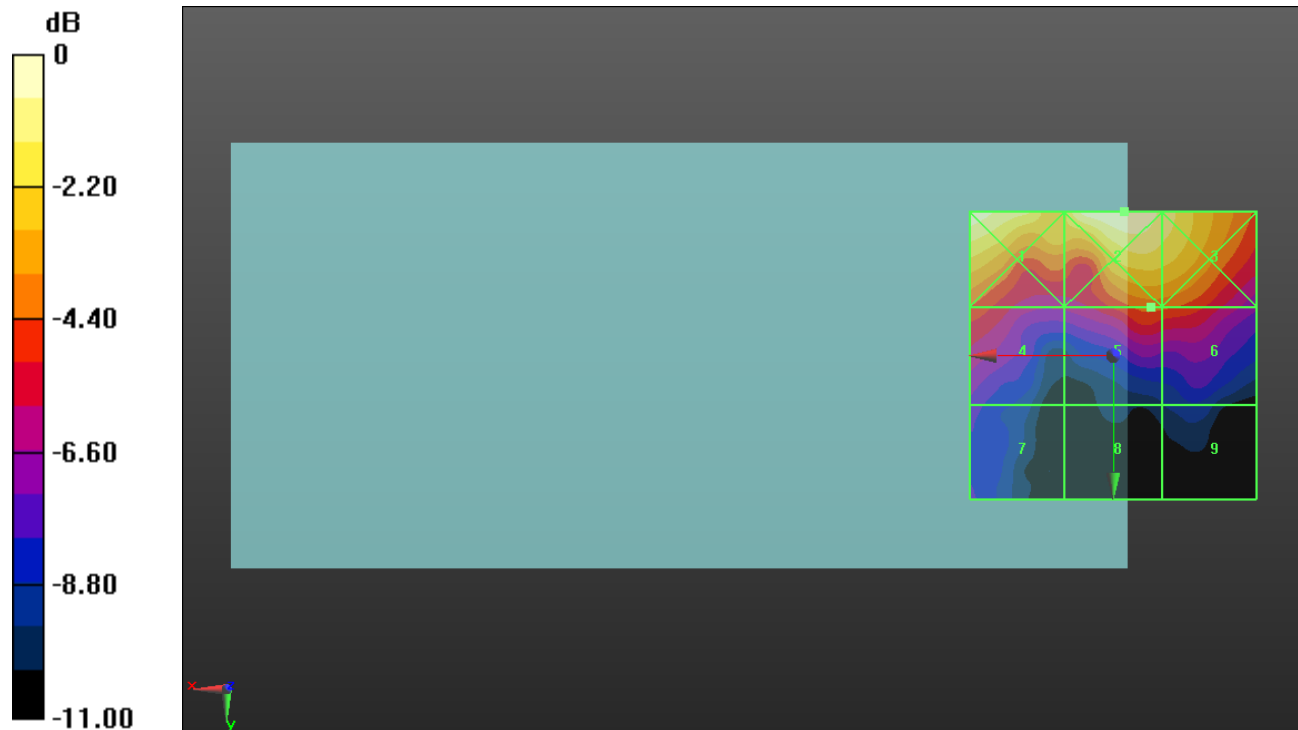
Applied MIF = 1.02 dB

RF audio interference level = 21.04 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>25.02 dBV/m</b>	Grid 2 <b>M4</b> <b>25.12 dBV/m</b>	Grid 3 <b>M4</b> <b>24.19 dBV/m</b>
Grid 4 <b>M4</b> <b>20.73 dBV/m</b>	Grid 5 <b>M4</b> <b>21.04 dBV/m</b>	Grid 6 <b>M4</b> <b>20.94 dBV/m</b>
Grid 7 <b>M4</b> <b>17.53 dBV/m</b>	Grid 8 <b>M4</b> <b>15.56 dBV/m</b>	Grid 9 <b>M4</b> <b>16.27 dBV/m</b>



0 dB = 18.03 V/m = 25.12 dBV/m

### HAC-RF Emission

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

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/24/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1472; Calibrated: 3/8/2018
- 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 (Ceramic Spot-check)/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 = 51.38 V/m; Power Drift = -0.02 dB

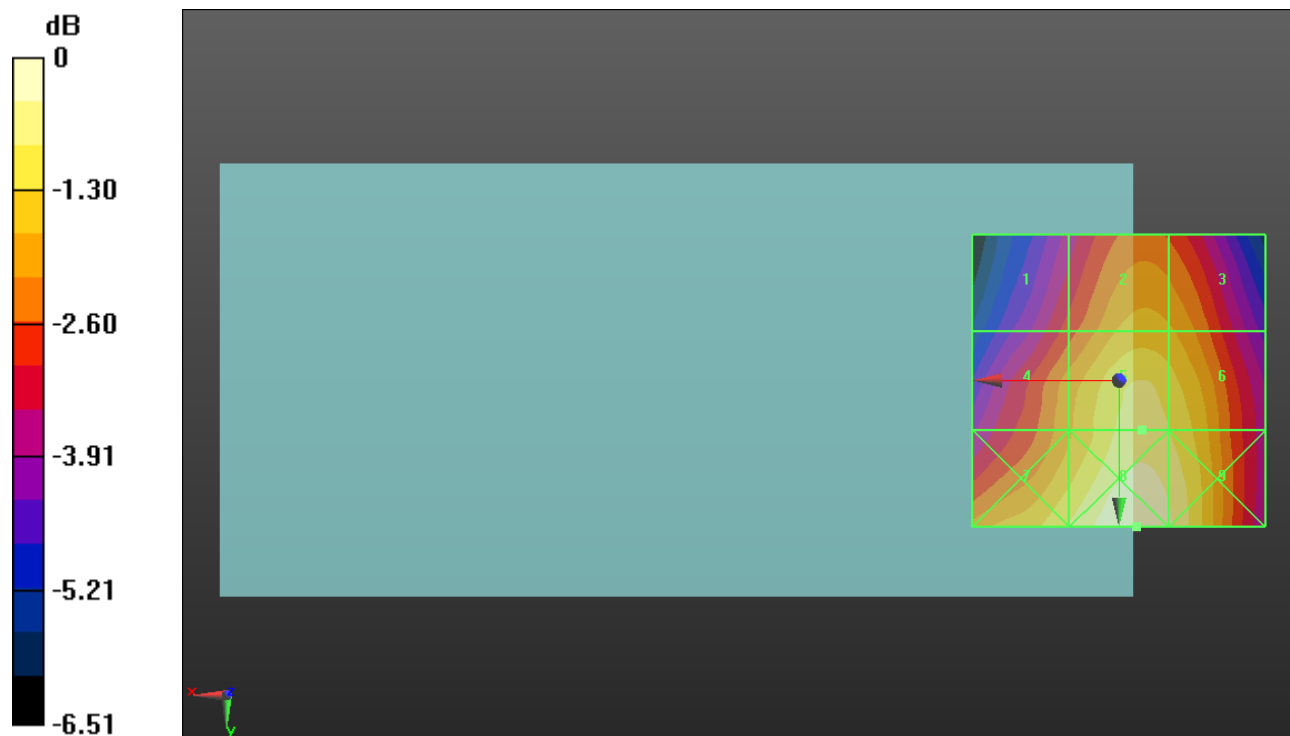
Applied MIF = 3.63 dB

RF audio interference level = 35.46 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>33.31 dBV/m</b>	Grid 2 <b>M4</b> <b>34.6 dBV/m</b>	Grid 3 <b>M4</b> <b>34.44 dBV/m</b>
Grid 4 <b>M4</b> <b>34.29 dBV/m</b>	Grid 5 <b>M4</b> <b>35.46 dBV/m</b>	Grid 6 <b>M4</b> <b>35.24 dBV/m</b>
Grid 7 <b>M4</b> <b>35.29 dBV/m</b>	Grid 8 <b>M4</b> <b>36.09 dBV/m</b>	Grid 9 <b>M4</b> <b>35.73 dBV/m</b>



0 dB = 63.73 V/m = 36.09 dBV/m