

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: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 39.29 V/m; Power Drift = -0.41 dB

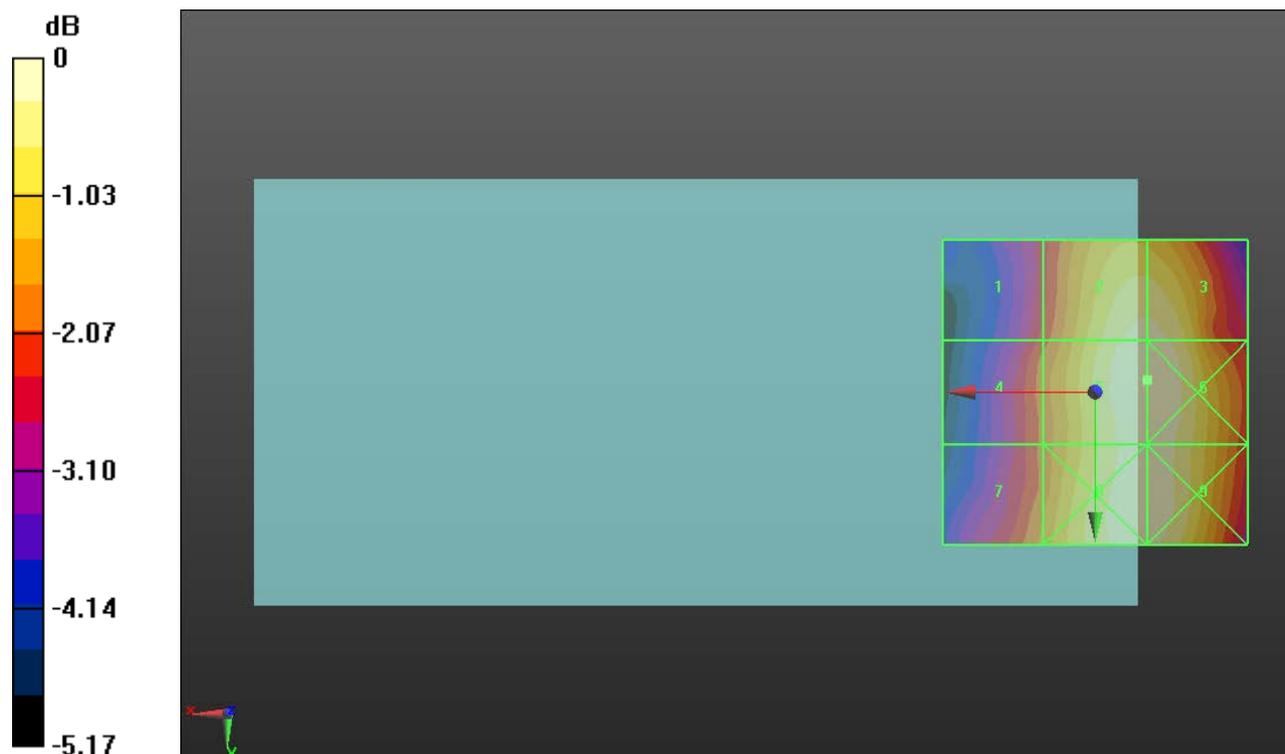
Applied MIF = 3.63 dB

RF audio interference level = 33.67 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 31.45 dBV/m	Grid 2 M4 33.5 dBV/m	Grid 3 M4 33.5 dBV/m
Grid 4 M4 31.82 dBV/m	Grid 5 M4 33.67 dBV/m	Grid 6 M4 33.67 dBV/m
Grid 7 M4 32.1 dBV/m	Grid 8 M4 33.58 dBV/m	Grid 9 M4 33.58 dBV/m



0 dB = 48.26 V/m = 33.67 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: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 33.64 V/m; Power Drift = 0.05 dB

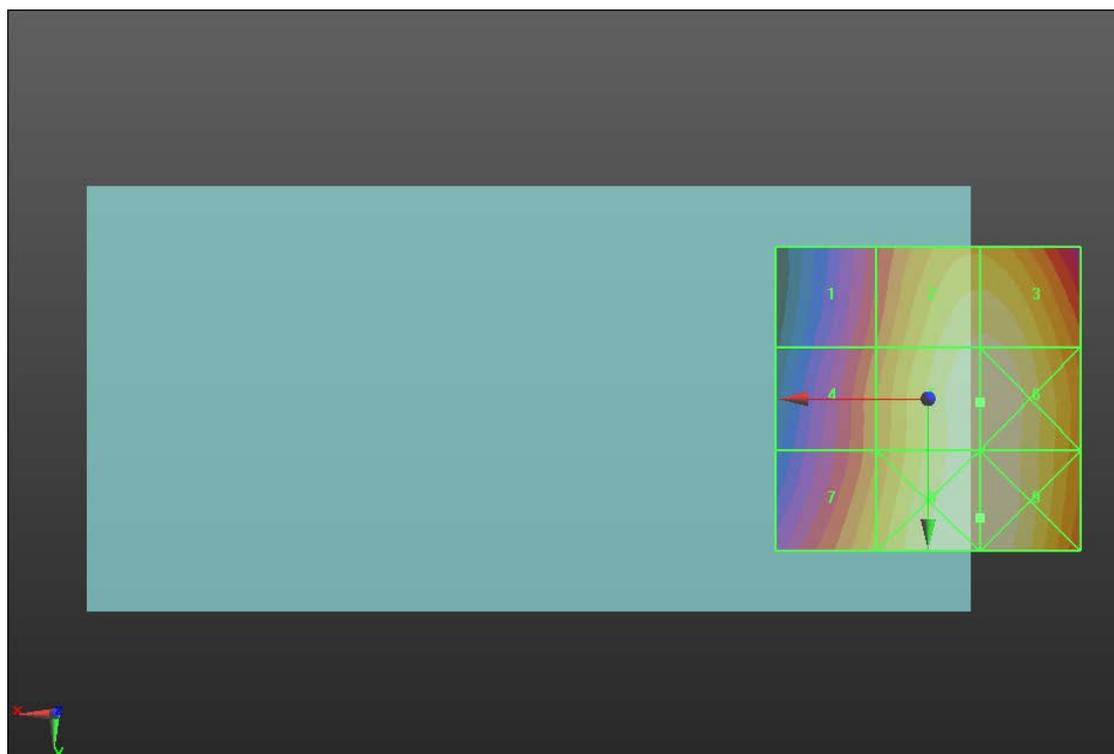
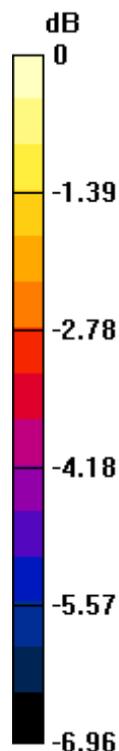
Applied MIF = 3.63 dB

RF audio interference level = 32.92 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 30.24 dBV/m	Grid 2 M4 32.64 dBV/m	Grid 3 M4 32.64 dBV/m
Grid 4 M4 30.66 dBV/m	Grid 5 M4 32.92 dBV/m	Grid 6 M4 32.92 dBV/m
Grid 7 M4 31.37 dBV/m	Grid 8 M4 32.98 dBV/m	Grid 9 M4 32.98 dBV/m



0 dB = 44.58 V/m = 32.98 dBV/m

HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 848.8 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 38.51 V/m; Power Drift = -0.01 dB

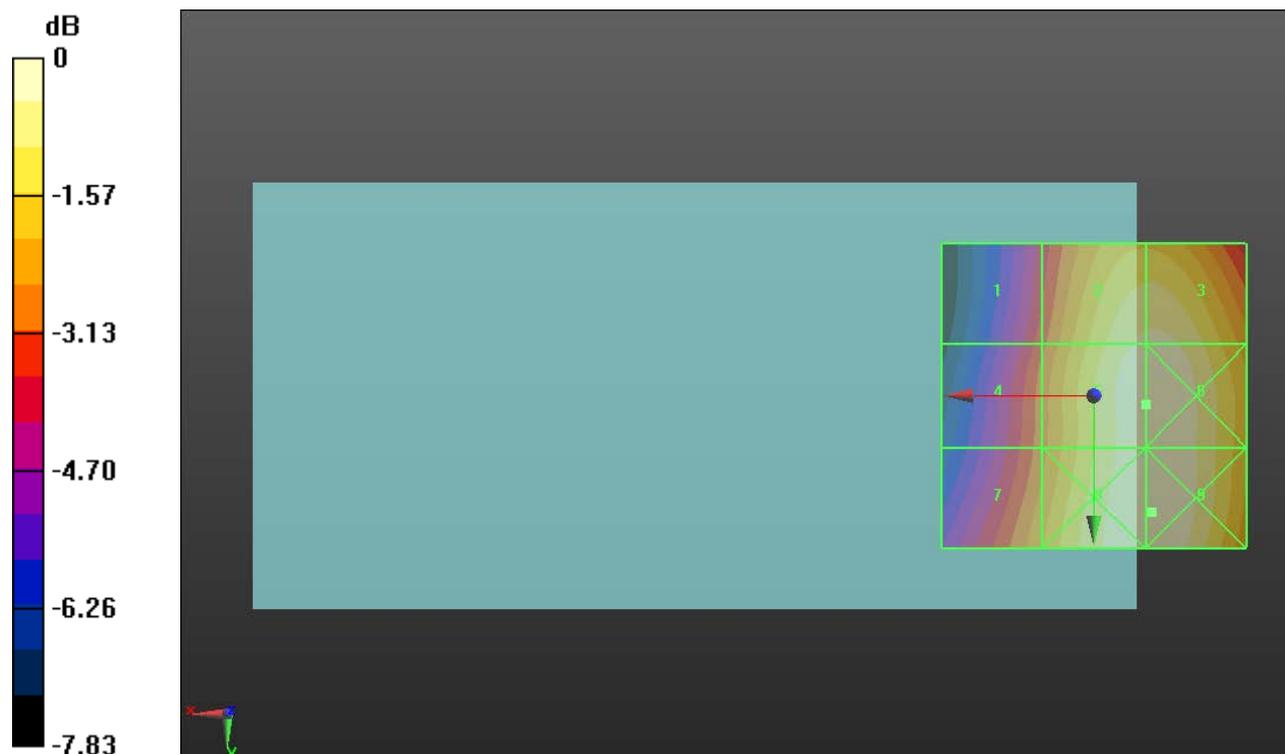
Applied MIF = 3.63 dB

RF audio interference level = 34.09 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 30.93 dBV/m	Grid 2 M4 33.82 dBV/m	Grid 3 M4 33.85 dBV/m
Grid 4 M4 31.42 dBV/m	Grid 5 M4 34.09 dBV/m	Grid 6 M4 34.11 dBV/m
Grid 7 M4 32.12 dBV/m	Grid 8 M4 34.19 dBV/m	Grid 9 M4 34.2 dBV/m



0 dB = 51.31 V/m = 34.20 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: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 2.899 V/m; Power Drift = -0.05 dB

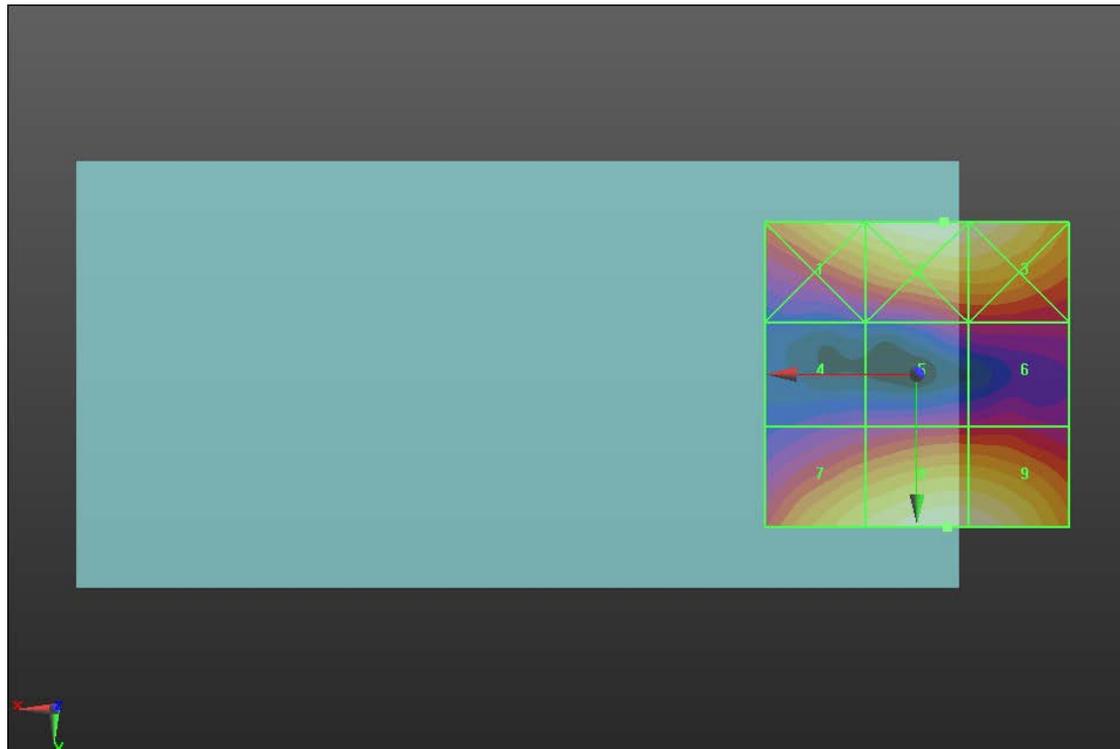
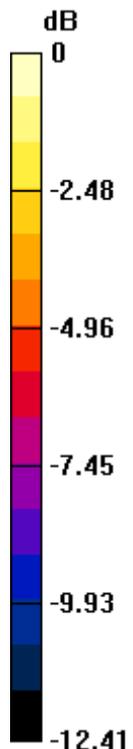
Applied MIF = 3.63 dB

RF audio interference level = 24.66 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 23.7 dBV/m	Grid 2 M4 24.74 dBV/m	Grid 3 M4 24.62 dBV/m
Grid 4 M4 17 dBV/m	Grid 5 M4 18.16 dBV/m	Grid 6 M4 18.37 dBV/m
Grid 7 M4 23.3 dBV/m	Grid 8 M4 24.66 dBV/m	Grid 9 M4 24.58 dBV/m



0 dB = 17.25 V/m = 24.74 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: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 3.637 V/m; Power Drift = 0.57 dB

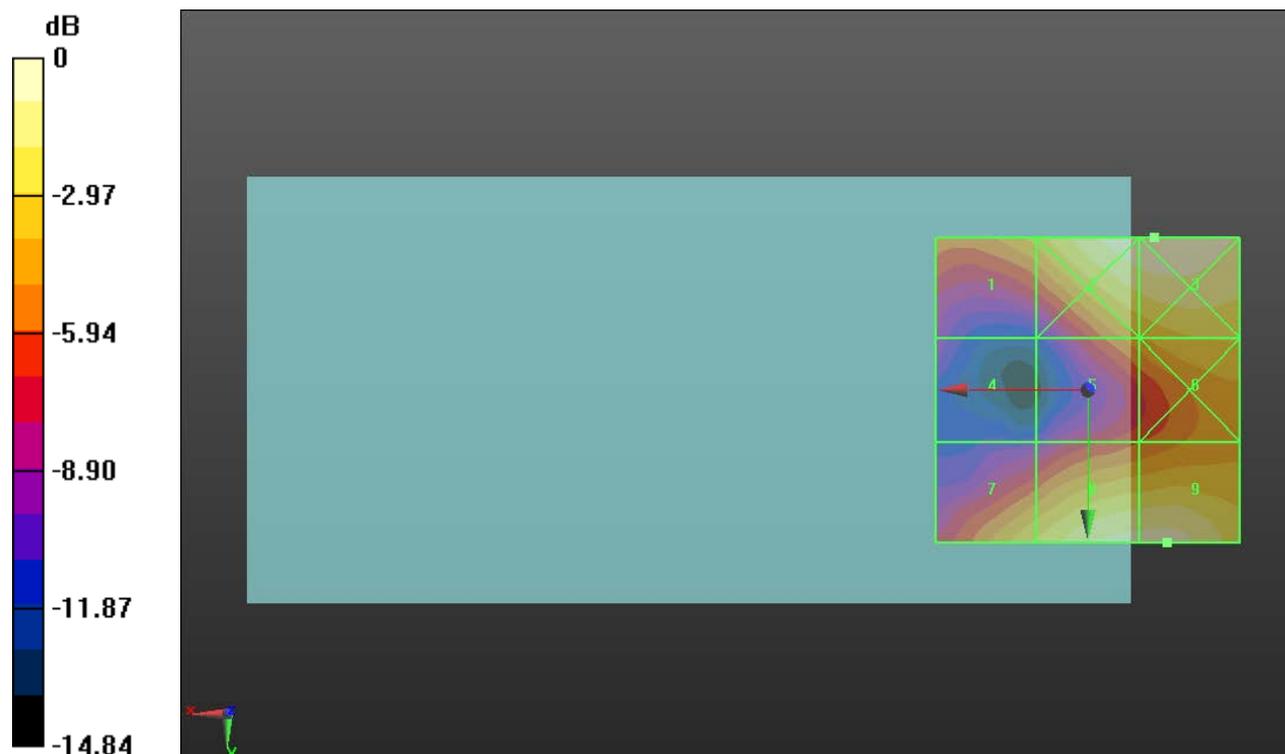
Applied MIF = 3.63 dB

RF audio interference level = 23.24 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 20.21 dBV/m	Grid 2 M4 23.58 dBV/m	Grid 3 M4 23.69 dBV/m
Grid 4 M4 14.71 dBV/m	Grid 5 M4 19.49 dBV/m	Grid 6 M4 20.81 dBV/m
Grid 7 M4 20.95 dBV/m	Grid 8 M4 23.14 dBV/m	Grid 9 M4 23.24 dBV/m



0 dB = 15.29 V/m = 23.69 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: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 5.001 V/m; Power Drift = -0.06 dB

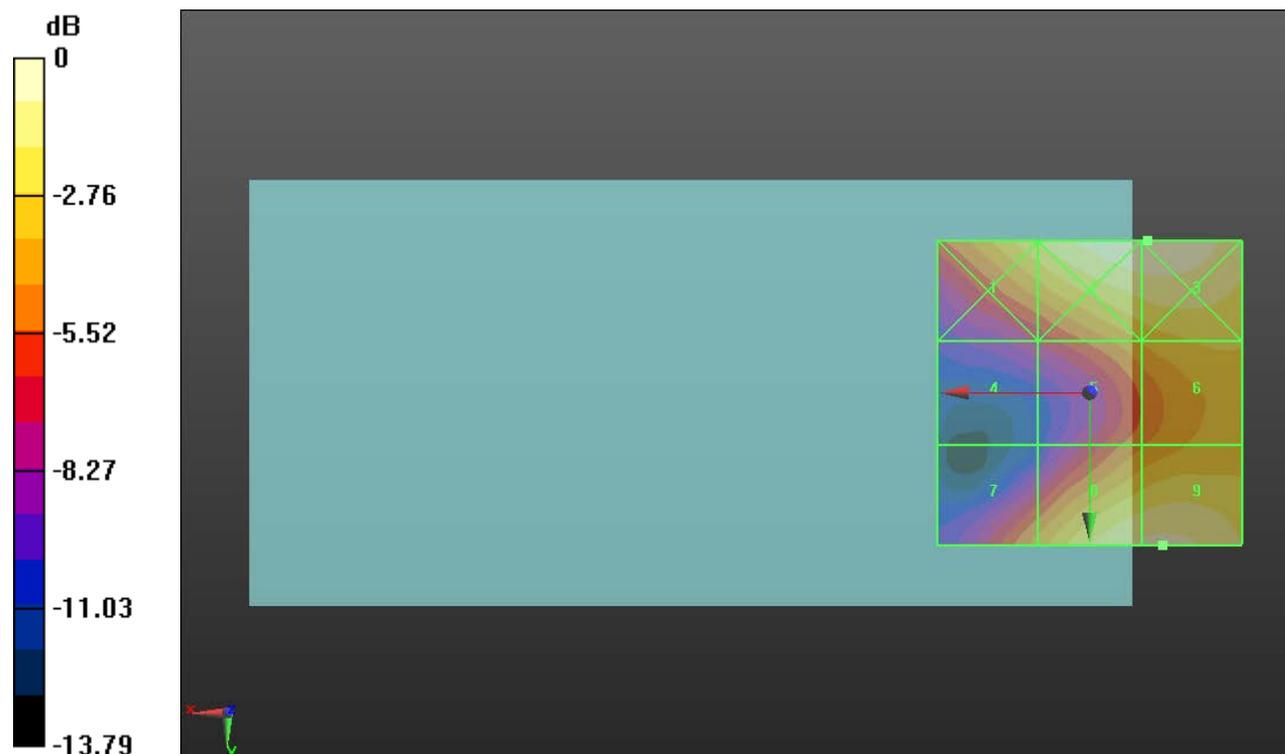
Applied MIF = 3.63 dB

RF audio interference level = 24.34 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 23.18 dBV/m	Grid 2 M4 24.94 dBV/m	Grid 3 M4 24.95 dBV/m
Grid 4 M4 17.75 dBV/m	Grid 5 M4 21.39 dBV/m	Grid 6 M4 22.35 dBV/m
Grid 7 M4 20.82 dBV/m	Grid 8 M4 24.22 dBV/m	Grid 9 M4 24.34 dBV/m



0 dB = 17.69 V/m = 24.95 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: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 8.825 V/m; Power Drift = -0.09 dB

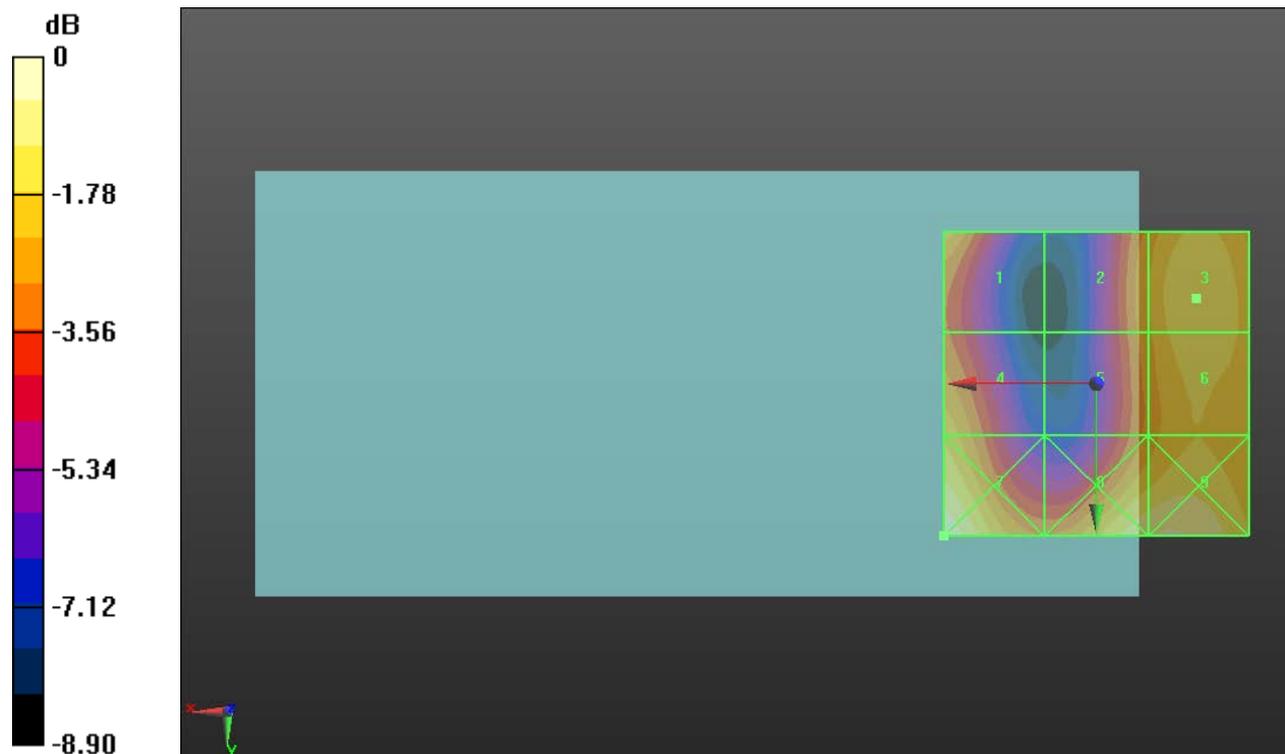
Applied MIF = -1.44 dB

RF audio interference level = 21.55 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 20.86 dBV/m	Grid 2 M4 20.48 dBV/m	Grid 3 M4 21.55 dBV/m
Grid 4 M4 20.92 dBV/m	Grid 5 M4 20.36 dBV/m	Grid 6 M4 21.48 dBV/m
Grid 7 M4 22.84 dBV/m	Grid 8 M4 22.23 dBV/m	Grid 9 M4 22.35 dBV/m



0 dB = 13.87 V/m = 22.84 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: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 5.732 V/m; Power Drift = -0.54 dB

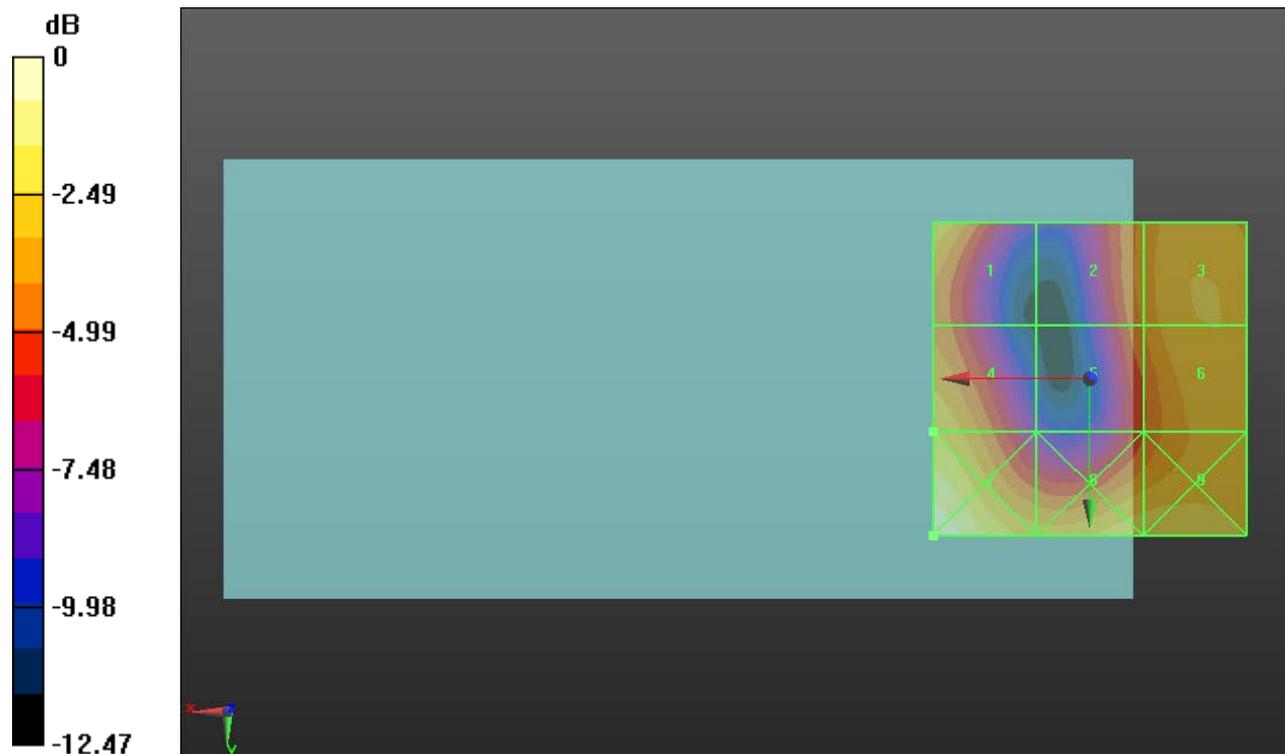
Applied MIF = -1.44 dB

RF audio interference level = 20.94 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 20.92 dBV/m	Grid 2 M4 19.59 dBV/m	Grid 3 M4 20.91 dBV/m
Grid 4 M4 20.94 dBV/m	Grid 5 M4 19.26 dBV/m	Grid 6 M4 20.87 dBV/m
Grid 7 M4 23.35 dBV/m	Grid 8 M4 21.61 dBV/m	Grid 9 M4 21.65 dBV/m



0 dB = 14.70 V/m = 23.35 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: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 4.268 V/m; Power Drift = -0.04 dB

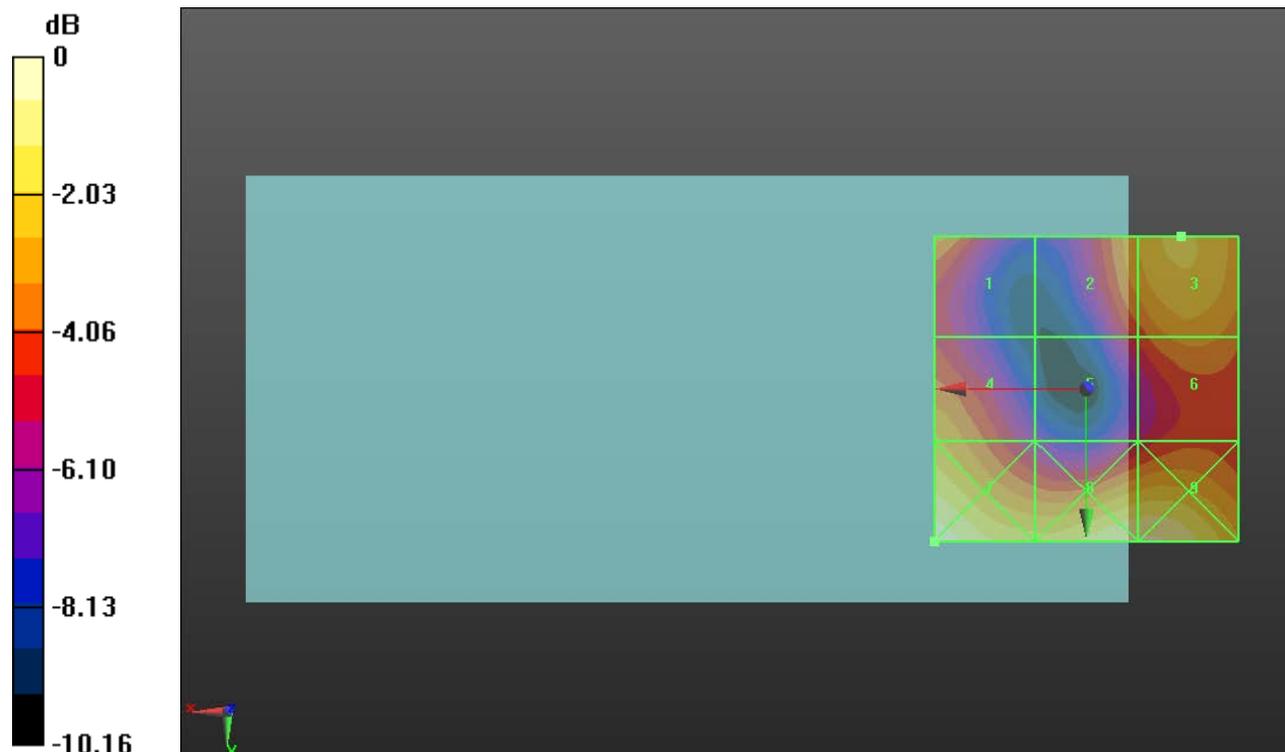
Applied MIF = -1.44 dB

RF audio interference level = 20.60 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 19.54 dBV/m	Grid 2 M4 19.75 dBV/m	Grid 3 M4 20.6 dBV/m
Grid 4 M4 19.93 dBV/m	Grid 5 M4 17.97 dBV/m	Grid 6 M4 19.35 dBV/m
Grid 7 M4 22.47 dBV/m	Grid 8 M4 21.95 dBV/m	Grid 9 M4 21.95 dBV/m



0 dB = 13.28 V/m = 22.46 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: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 5.527 V/m; Power Drift = -0.27 dB

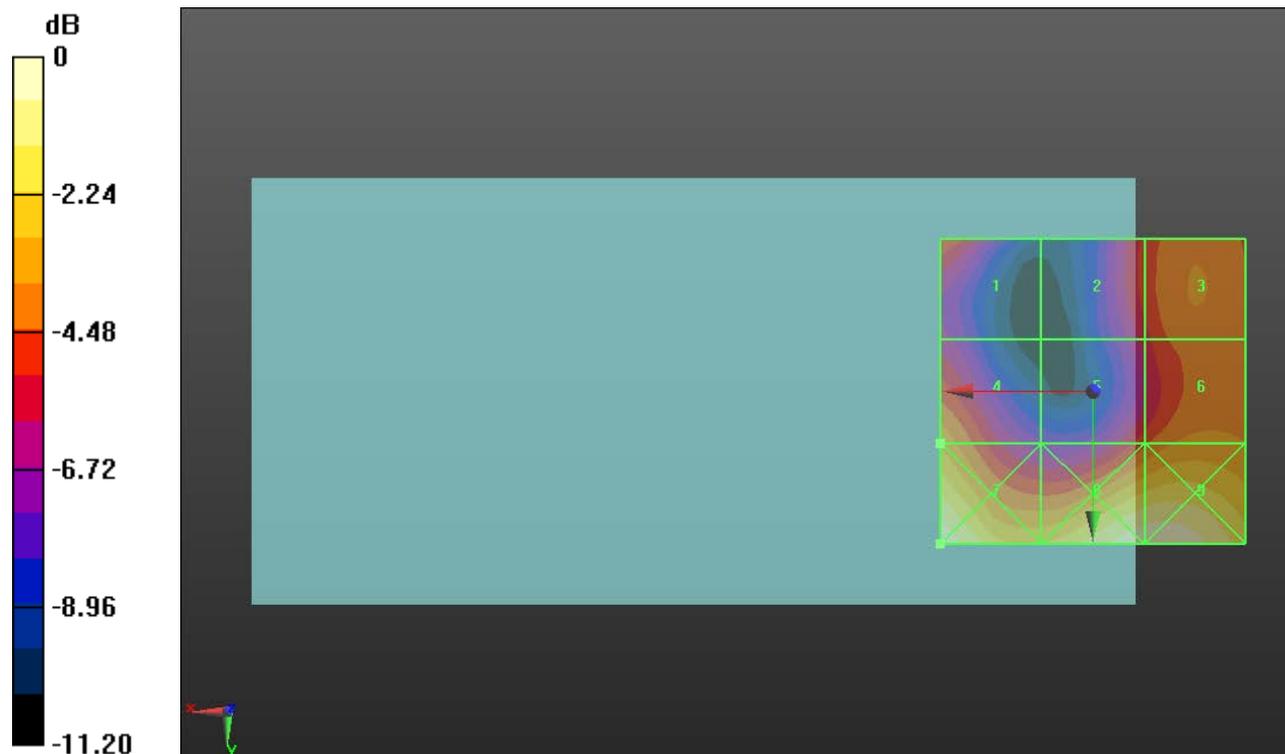
Applied MIF = -1.44 dB

RF audio interference level = 18.72 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 17.47 dBV/m	Grid 2 M4 16.94 dBV/m	Grid 3 M4 18.15 dBV/m
Grid 4 M4 18.72 dBV/m	Grid 5 M4 17.21 dBV/m	Grid 6 M4 18.38 dBV/m
Grid 7 M4 21.83 dBV/m	Grid 8 M4 21.71 dBV/m	Grid 9 M4 21.76 dBV/m



0 dB = 12.34 V/m = 21.83 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: 5/13/2016;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 9/16/2015
- 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 = 5.461 V/m; Power Drift = -9.52 dB

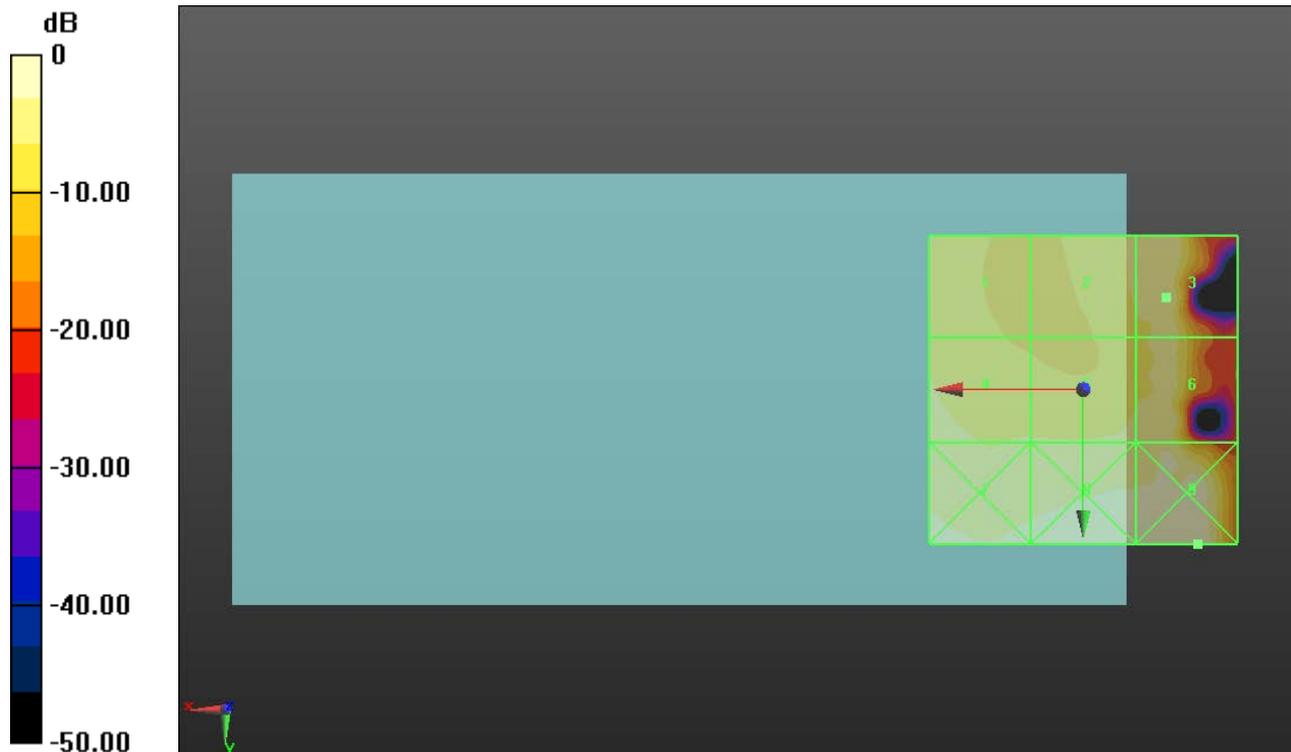
Applied MIF = -1.44 dB

RF audio interference level = 18.54 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 15.51 dBV/m	Grid 2 M4 15.99 dBV/m	Grid 3 M4 18.54 dBV/m
Grid 4 M4 16.54 dBV/m	Grid 5 M4 16.65 dBV/m	Grid 6 M4 18.27 dBV/m
Grid 7 M4 19.76 dBV/m	Grid 8 M4 20.82 dBV/m	Grid 9 M4 21.88 dBV/m



0 dB = 12.42 V/m = 21.88 dBV/m