

HAC-RF Emission

Communication System: UID 10021, 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 Sn1343; Calibrated: 8/21/2017
- 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 = 36.16 V/m; Power Drift = 0.07 dB

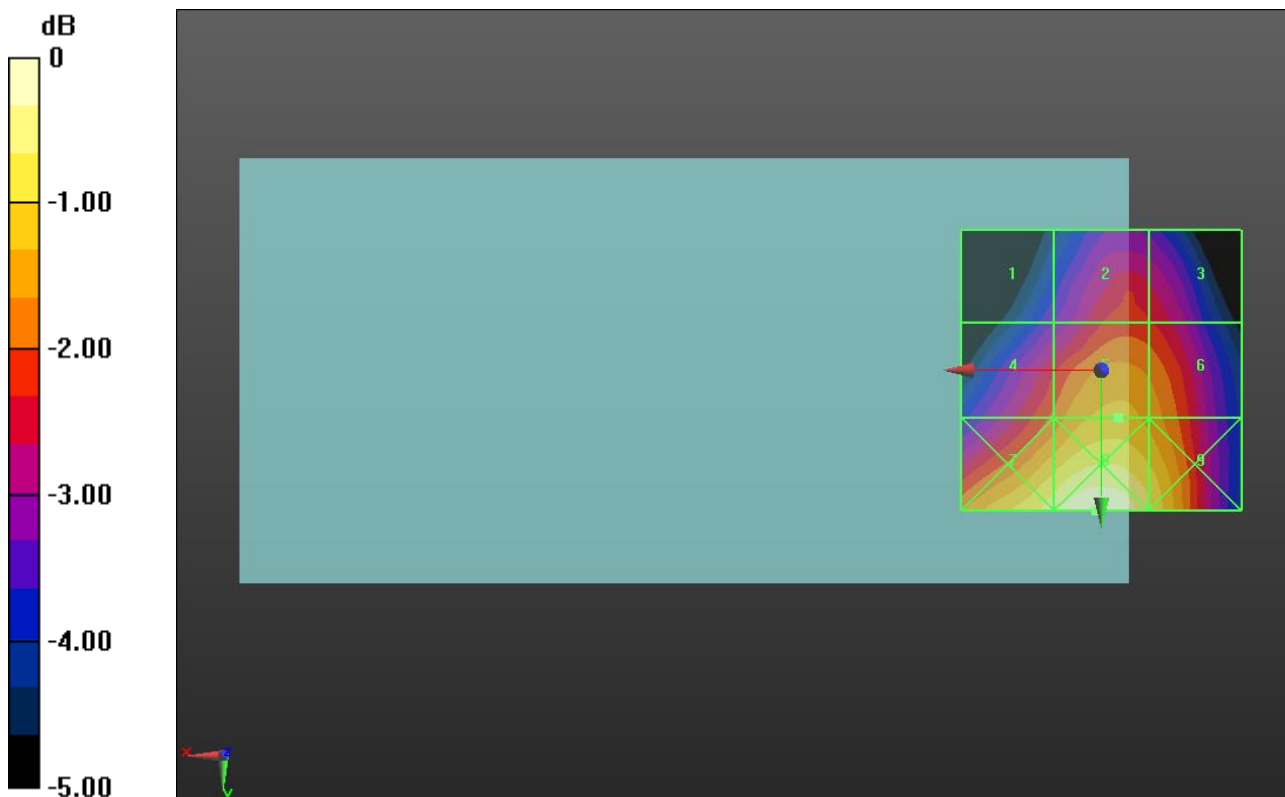
Applied MIF = 3.63 dB

RF audio interference level = 33.12 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 31.03 dBV/m	Grid 2 M4 32.18 dBV/m	Grid 3 M4 32.05 dBV/m
Grid 4 M4 32.45 dBV/m	Grid 5 M4 33.12 dBV/m	Grid 6 M4 32.9 dBV/m
Grid 7 M4 33.9 dBV/m	Grid 8 M4 34.33 dBV/m	Grid 9 M4 33.74 dBV/m



0 dB = 52.06 V/m = 34.33 dBV/m

HAC-RF Emission

Communication System: UID 10021, 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 Sn1343; Calibrated: 8/21/2017
- 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 = 37.91 V/m; Power Drift = -0.02 dB

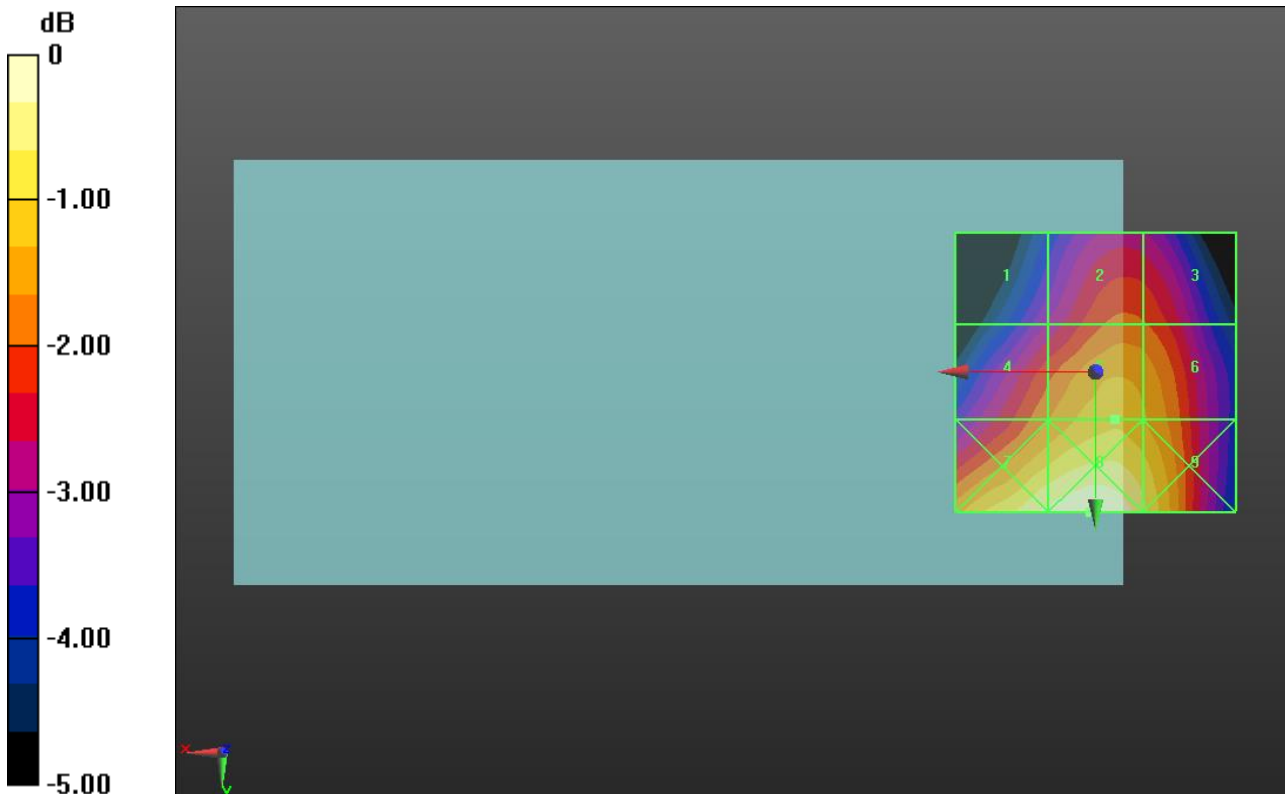
Applied MIF = 3.63 dB

RF audio interference level = 33.35 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 31.48 dBV/m	Grid 2 M4 32.54 dBV/m	Grid 3 M4 32.47 dBV/m
Grid 4 M4 32.75 dBV/m	Grid 5 M4 33.35 dBV/m	Grid 6 M4 33.14 dBV/m
Grid 7 M4 34.18 dBV/m	Grid 8 M4 34.42 dBV/m	Grid 9 M4 33.85 dBV/m



0 dB = 52.58 V/m = 34.42 dBV/m

HAC-RF Emission

Communication System: UID 10021, 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 Sn1343; Calibrated: 8/21/2017
- 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 = 36.43 V/m; Power Drift = 0.01 dB

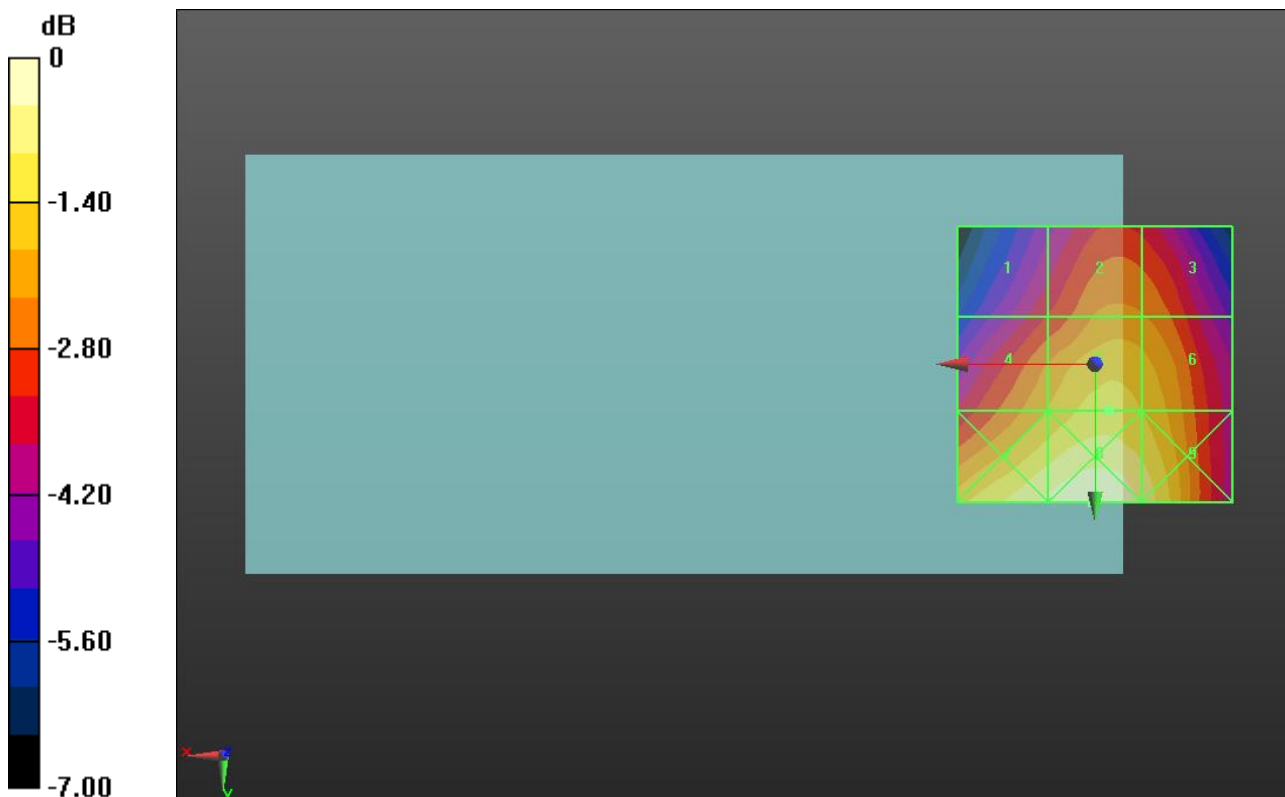
Applied MIF = 3.63 dB

RF audio interference level = 33.12 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 31.1 dBV/m	Grid 2 M4 32.14 dBV/m	Grid 3 M4 32.03 dBV/m
Grid 4 M4 32.49 dBV/m	Grid 5 M4 33.12 dBV/m	Grid 6 M4 32.91 dBV/m
Grid 7 M4 33.95 dBV/m	Grid 8 M4 34.3 dBV/m	Grid 9 M4 33.75 dBV/m



0 dB = 51.87 V/m = 34.30 dBV/m

HAC-RF Emission

Communication System: UID 10021, 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 Sn1343; Calibrated: 8/21/2017
- 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 = 10.41 V/m; Power Drift = -0.09 dB

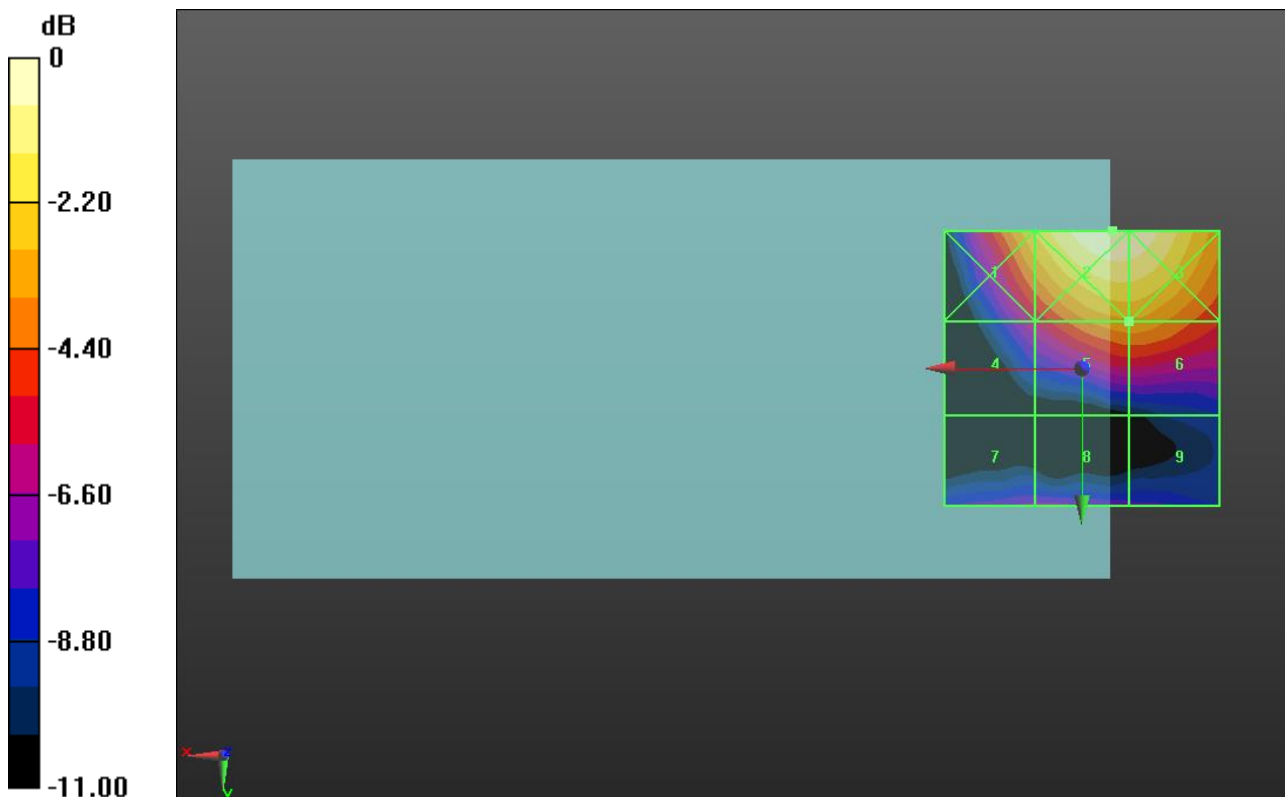
Applied MIF = 3.63 dB

RF audio interference level = 25.61 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 26.61 dBV/m	Grid 2 M4 28.69 dBV/m	Grid 3 M4 28.58 dBV/m
Grid 4 M4 22.85 dBV/m	Grid 5 M4 25.61 dBV/m	Grid 6 M4 25.61 dBV/m
Grid 7 M4 21.75 dBV/m	Grid 8 M4 21.94 dBV/m	Grid 9 M4 21.08 dBV/m



0 dB = 27.18 V/m = 28.68 dBV/m

HAC-RF Emission

Communication System: UID 10021, 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 Sn1343; Calibrated: 8/21/2017
- 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 = 9.049 V/m; Power Drift = -0.43 dB

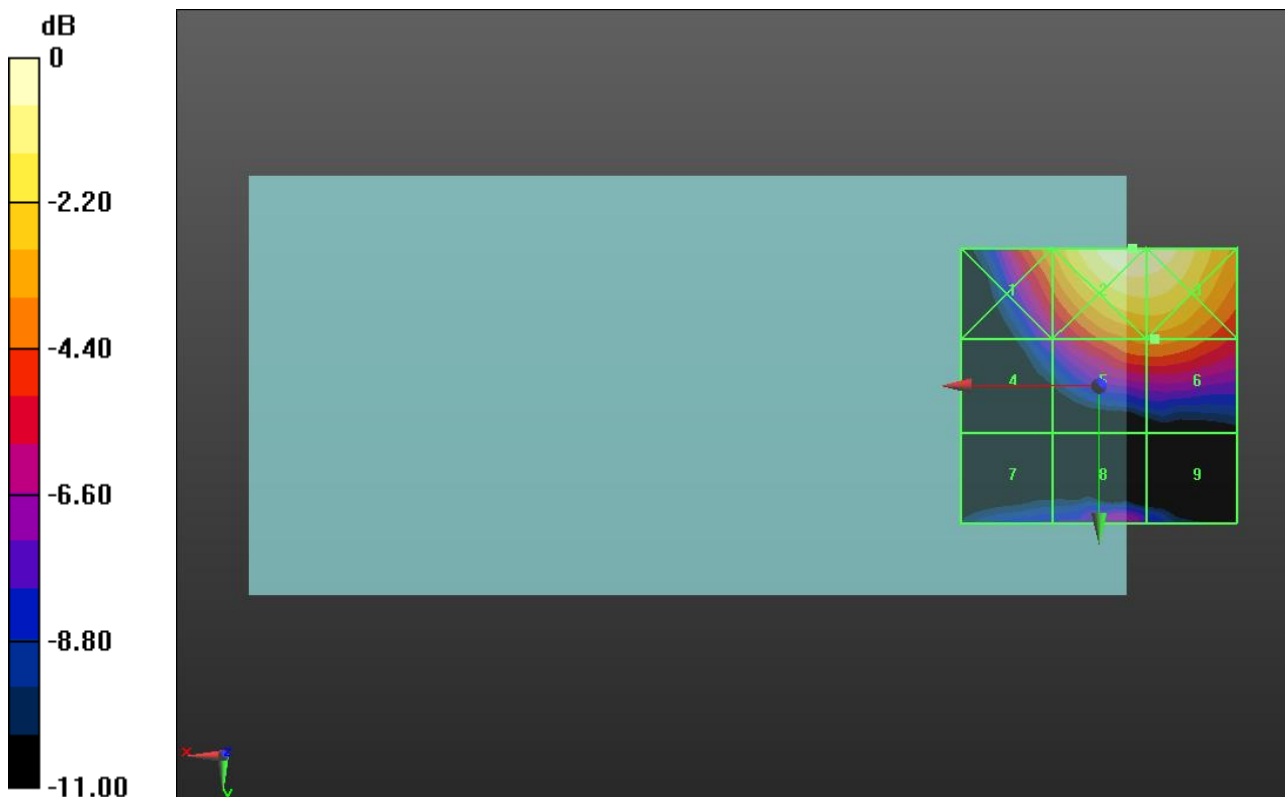
Applied MIF = 3.63 dB

RF audio interference level = 24.63 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 25.07 dBV/m	Grid 2 M4 27.96 dBV/m	Grid 3 M4 27.87 dBV/m
Grid 4 M4 21.08 dBV/m	Grid 5 M4 24.61 dBV/m	Grid 6 M4 24.63 dBV/m
Grid 7 M4 20.23 dBV/m	Grid 8 M4 21.21 dBV/m	Grid 9 M4 20.29 dBV/m



0 dB = 25.00 V/m = 27.96 dBV/m

HAC-RF Emission

Communication System: UID 10021, 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 Sn1343; Calibrated: 8/21/2017
- 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 = 6.389 V/m; Power Drift = -0.05 dB

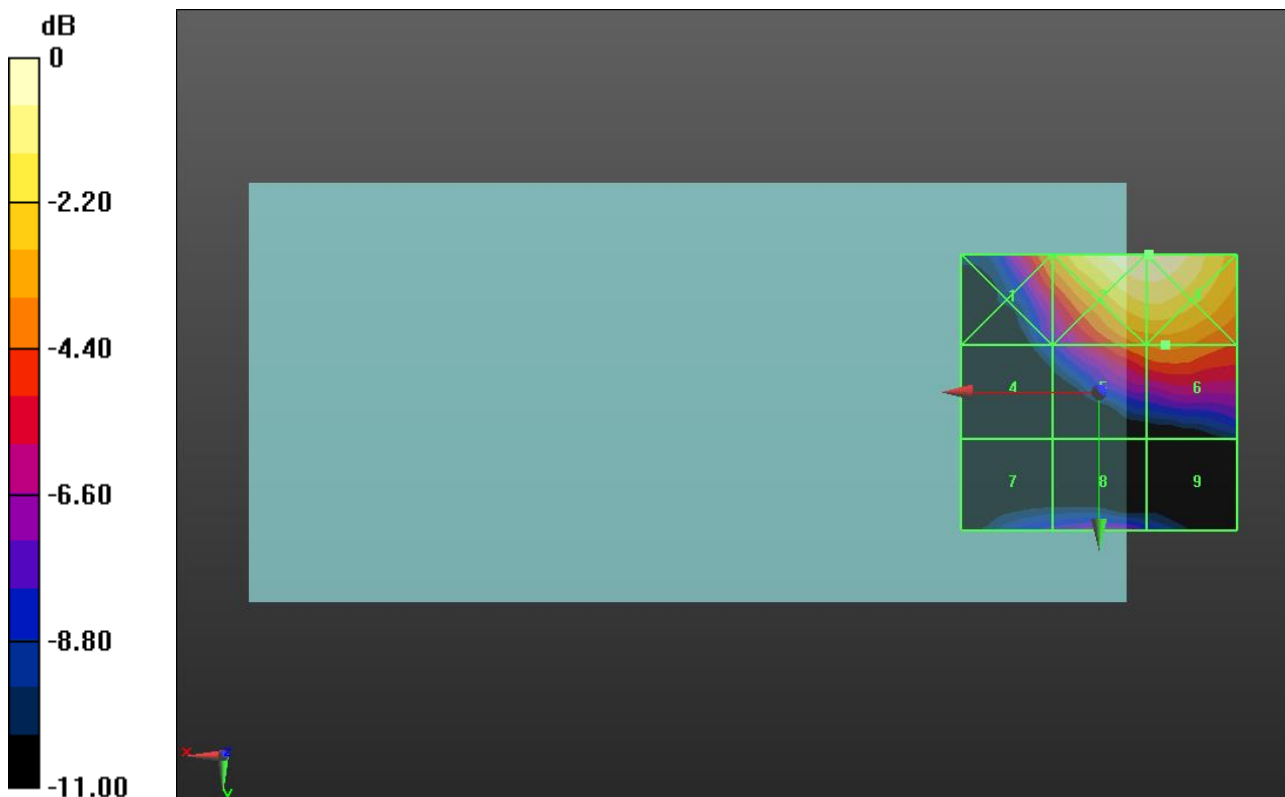
Applied MIF = 3.63 dB

RF audio interference level = 22.81 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 23.15 dBV/m	Grid 2 M4 26.25 dBV/m	Grid 3 M4 26.26 dBV/m
Grid 4 M4 18.16 dBV/m	Grid 5 M4 22.62 dBV/m	Grid 6 M4 22.81 dBV/m
Grid 7 M4 18.68 dBV/m	Grid 8 M4 19.68 dBV/m	Grid 9 M4 18.31 dBV/m



0 dB = 20.55 V/m = 26.26 dBV/m

HAC-RF Emission

Communication System: UID 10173, 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 Sn1343; Calibrated: 8/21/2017
- 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/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 = 7.654 V/m; Power Drift = -0.08 dB

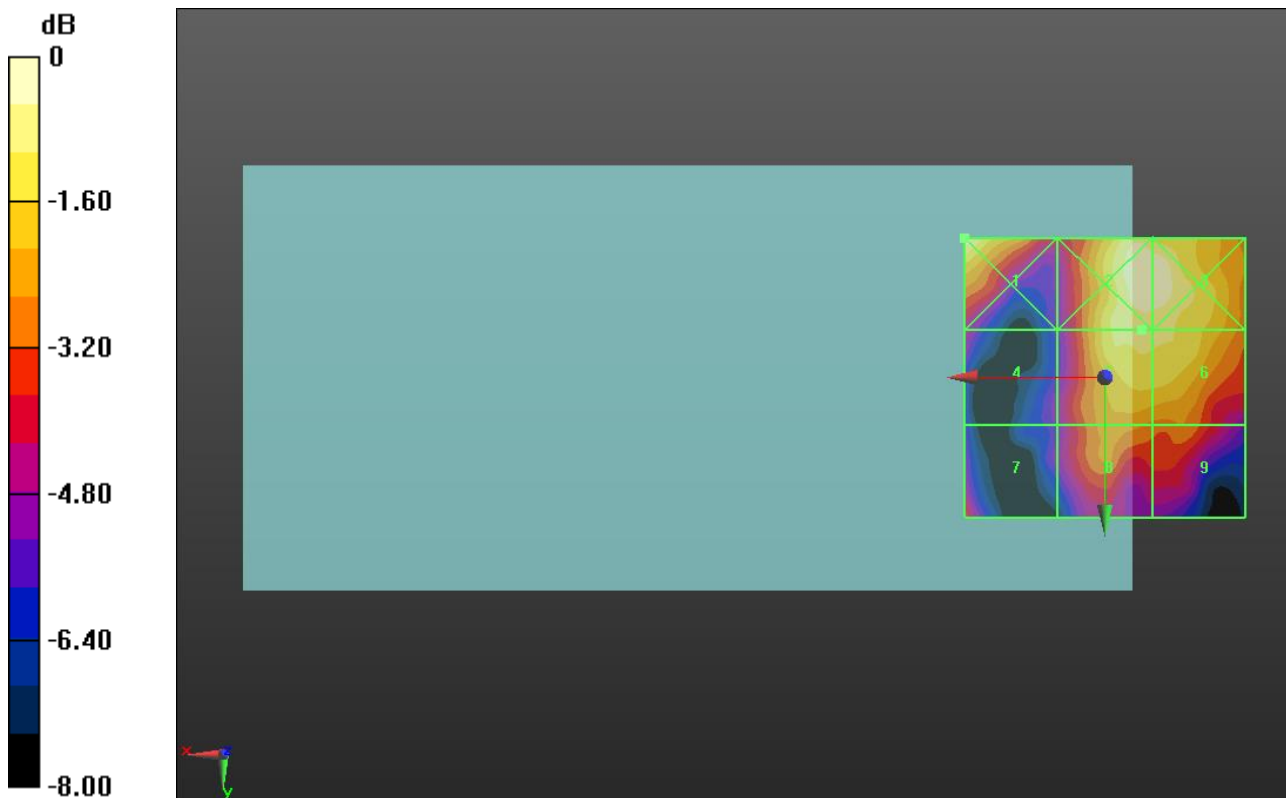
Applied MIF = -1.44 dB

RF audio interference level = 15.21 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 15.98 dBV/m	Grid 2 M4 15.93 dBV/m	Grid 3 M4 15.87 dBV/m
Grid 4 M4 11.55 dBV/m	Grid 5 M4 15.21 dBV/m	Grid 6 M4 15.16 dBV/m
Grid 7 M4 12.84 dBV/m	Grid 8 M4 13.68 dBV/m	Grid 9 M4 13.32 dBV/m



0 dB = 6.297 V/m = 15.98 dBV/m

HAC-RF Emission

Communication System: UID 10173, 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 Sn1343; Calibrated: 8/21/2017
- 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/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 = 8.599 V/m; Power Drift = -1.31 dB

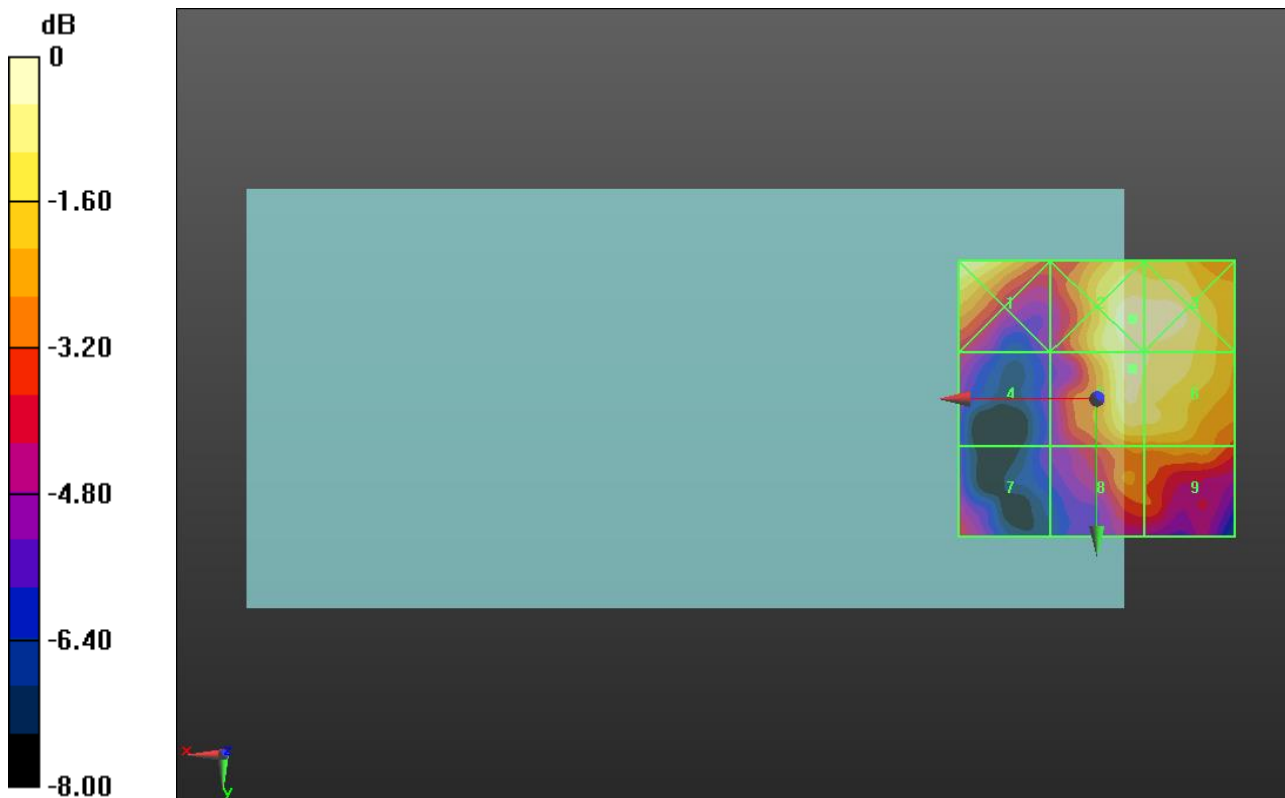
Applied MIF = -1.44 dB

RF audio interference level = 16.52 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 16.5 dBV/m	Grid 2 M4 16.81 dBV/m	Grid 3 M4 16.74 dBV/m
Grid 4 M4 12.81 dBV/m	Grid 5 M4 16.52 dBV/m	Grid 6 M4 16.34 dBV/m
Grid 7 M4 13.03 dBV/m	Grid 8 M4 14.48 dBV/m	Grid 9 M4 14.54 dBV/m



0 dB = 6.925 V/m = 16.81 dBV/m

HAC-RF Emission

Communication System: UID 10173, 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 Sn1343; Calibrated: 8/21/2017
- 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/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 = 6.559 V/m; Power Drift = -0.36 dB

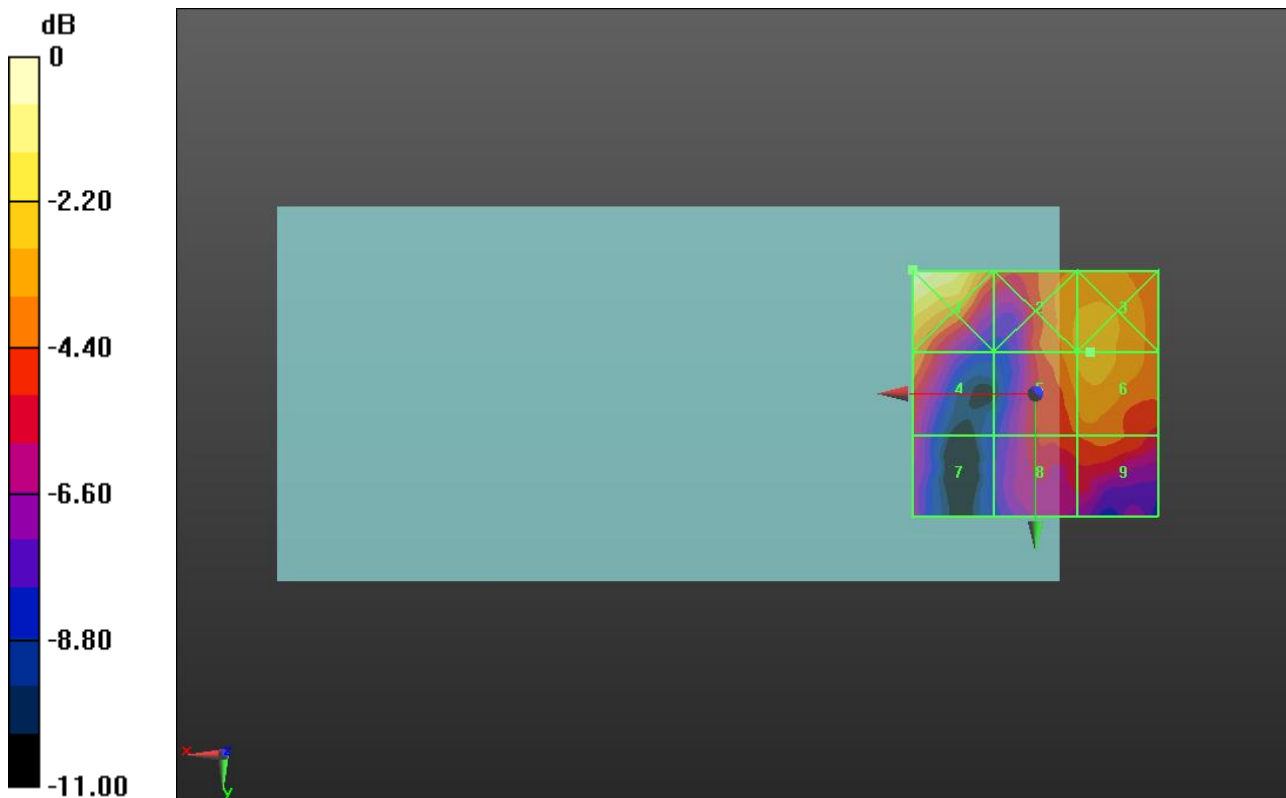
Applied MIF = -1.44 dB

RF audio interference level = 15.41 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 17.88 dBV/m	Grid 2 M4 15.18 dBV/m	Grid 3 M4 15.47 dBV/m
Grid 4 M4 14.58 dBV/m	Grid 5 M4 15.1 dBV/m	Grid 6 M4 15.41 dBV/m
Grid 7 M4 12.03 dBV/m	Grid 8 M4 13.49 dBV/m	Grid 9 M4 13.85 dBV/m



0 dB = 7.833 V/m = 17.88 dBV/m

HAC-RF Emission

Communication System: UID 10173, 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 Sn1343; Calibrated: 8/21/2017
- 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/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 = 5.889 V/m; Power Drift = -0.31 dB

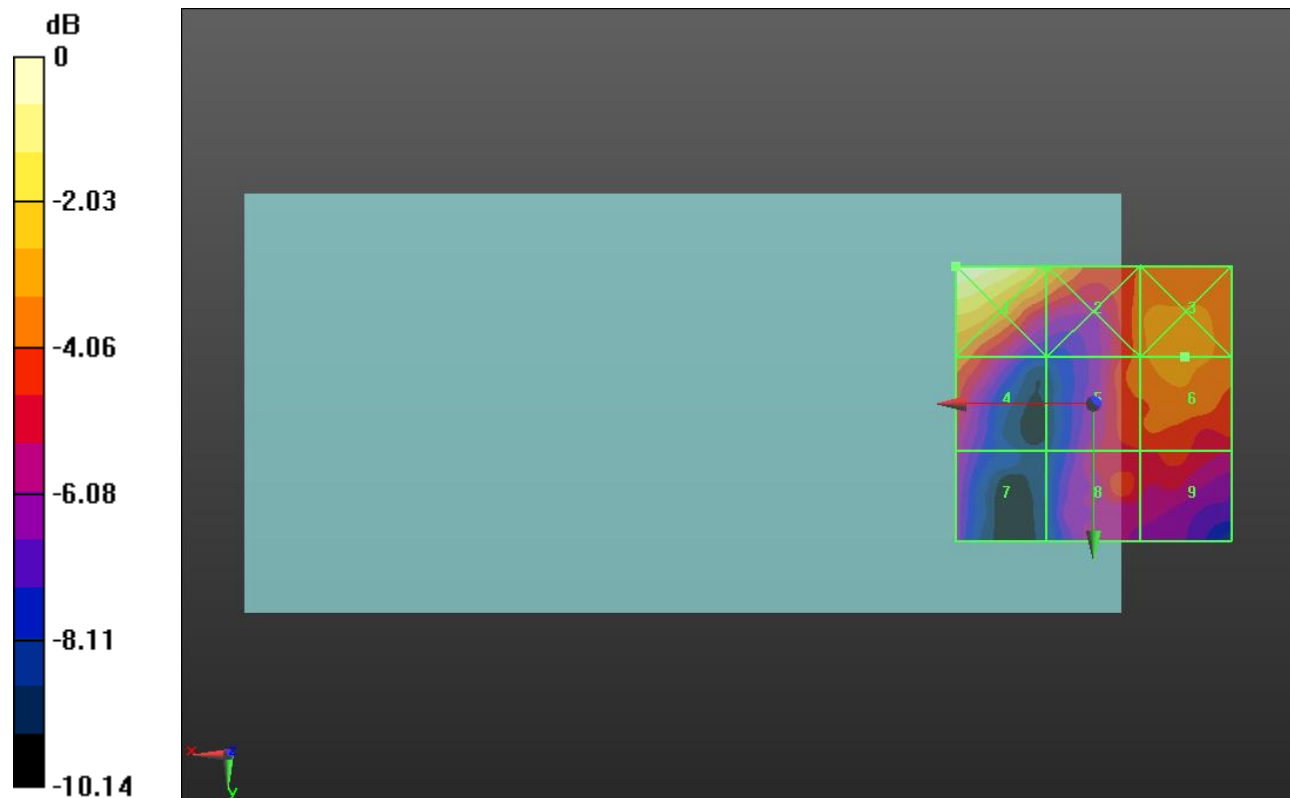
Applied MIF = -1.44 dB

RF audio interference level = 15.19 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 18.34 dBV/m	Grid 2 M4 15.96 dBV/m	Grid 3 M4 15.31 dBV/m
Grid 4 M4 14.93 dBV/m	Grid 5 M4 14.7 dBV/m	Grid 6 M4 15.19 dBV/m
Grid 7 M4 12.69 dBV/m	Grid 8 M4 14.27 dBV/m	Grid 9 M4 13.99 dBV/m



0 dB = 8.258 V/m = 18.34 dBV/m

HAC-RF Emission

Communication System: UID 10173, 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 Sn1343; Calibrated: 8/21/2017
- 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/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 = 6.237 V/m; Power Drift = -0.11 dB

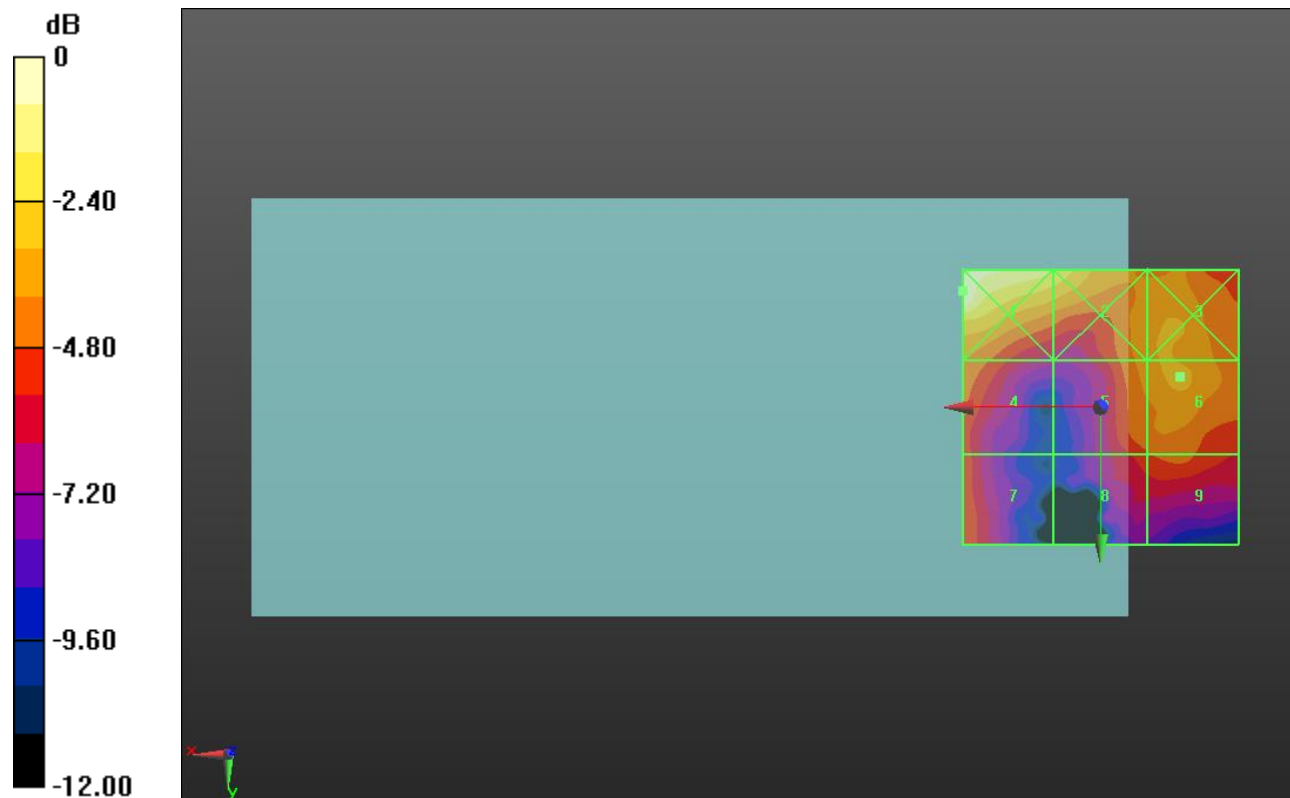
Applied MIF = -1.44 dB

RF audio interference level = 15.97 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 18.96 dBV/m	Grid 2 M4 17.42 dBV/m	Grid 3 M4 15.86 dBV/m
Grid 4 M4 15.07 dBV/m	Grid 5 M4 15.49 dBV/m	Grid 6 M4 15.97 dBV/m
Grid 7 M4 14.27 dBV/m	Grid 8 M4 14.07 dBV/m	Grid 9 M4 14.48 dBV/m



0 dB = 8.870 V/m = 18.96 dBV/m