

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: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/13/2018;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- 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 = 46.41 V/m; Power Drift = -0.08 dB

Applied MIF = 3.63 dB

RF audio interference level = 34.50 dBV/m

Emission category: M4

MIF scaled E-field

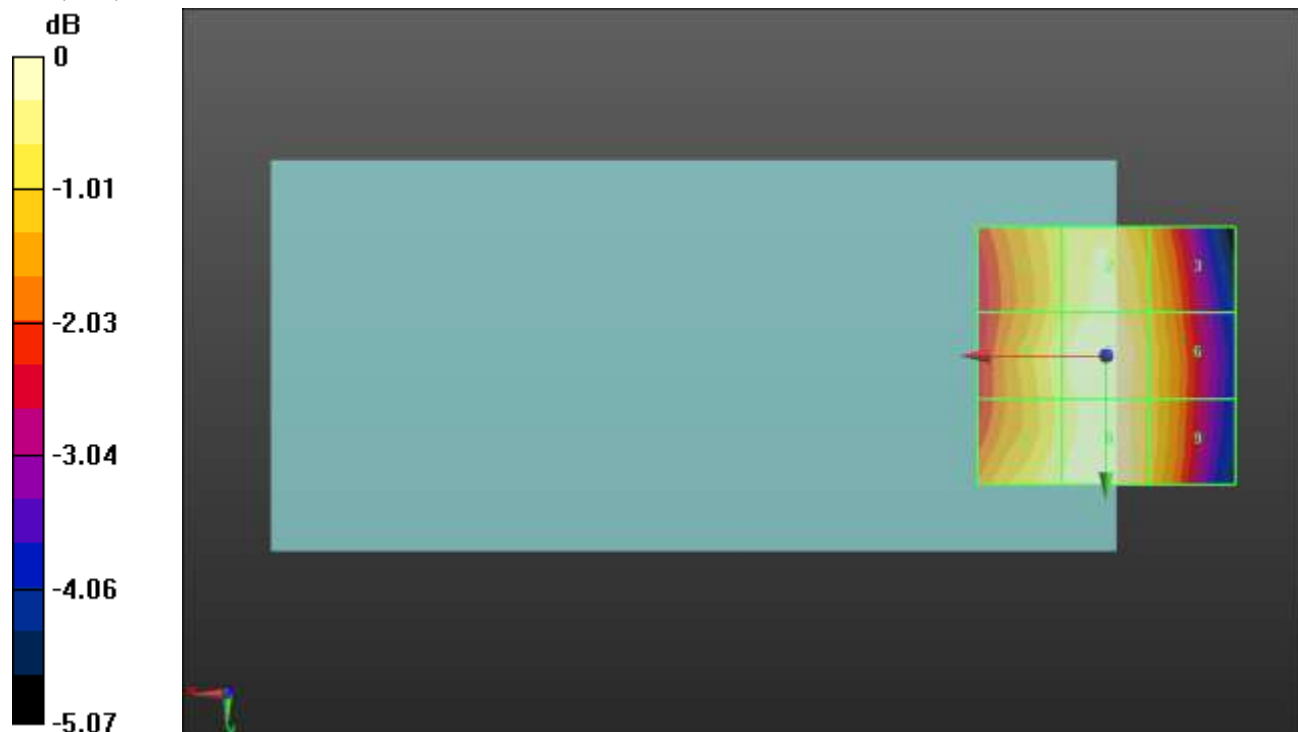
Grid 1 M4 33.82 dBV/m	Grid 2 M4 34.28 dBV/m	Grid 3 M4 33.59 dBV/m
Grid 4 M4 34.11 dBV/m	Grid 5 M4 34.5 dBV/m	Grid 6 M4 33.76 dBV/m
Grid 7 M4 34.23 dBV/m	Grid 8 M4 34.47 dBV/m	Grid 9 M4 33.73 dBV/m

Cursor:

Total = 34.50 dBV/m

E Category: M4

Location: 0.5, 0.5, 7.7 mm



0 dB = 53.08 V/m = 34.50 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: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/13/2018;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- 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 = 44.71 V/m; Power Drift = -0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 34.30 dBV/m

Emission category: M4

MIF scaled E-field

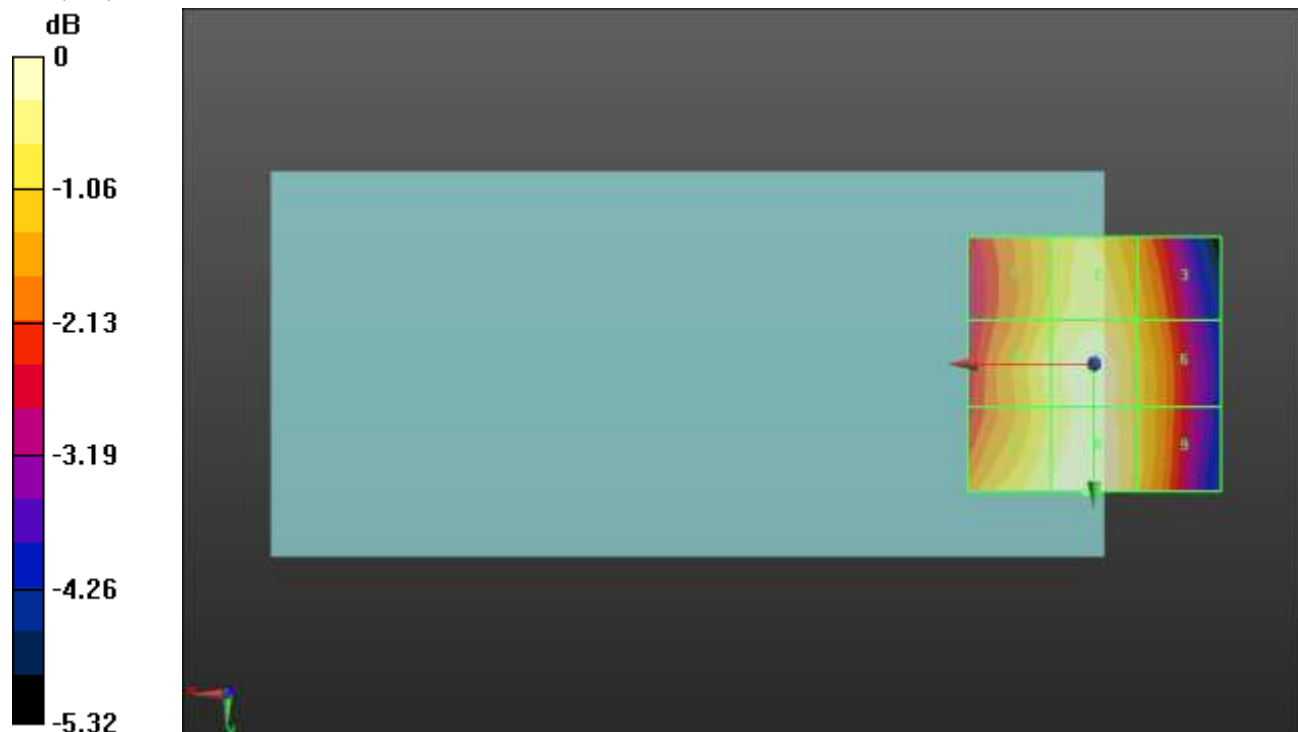
Grid 1 M4 33.4 dBV/m	Grid 2 M4 33.89 dBV/m	Grid 3 M4 33.23 dBV/m
Grid 4 M4 33.79 dBV/m	Grid 5 M4 34.16 dBV/m	Grid 6 M4 33.46 dBV/m
Grid 7 M4 34.03 dBV/m	Grid 8 M4 34.3 dBV/m	Grid 9 M4 33.47 dBV/m

Cursor:

Total = 34.30 dBV/m

E Category: M4

Location: 1.5, 25, 7.7 mm



0 dB = 51.86 V/m = 34.30 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: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/13/2018;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- 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 = 40.30 V/m; Power Drift = 0.08 dB

Applied MIF = 3.63 dB

RF audio interference level = 33.52 dBV/m

Emission category: M4

MIF scaled E-field

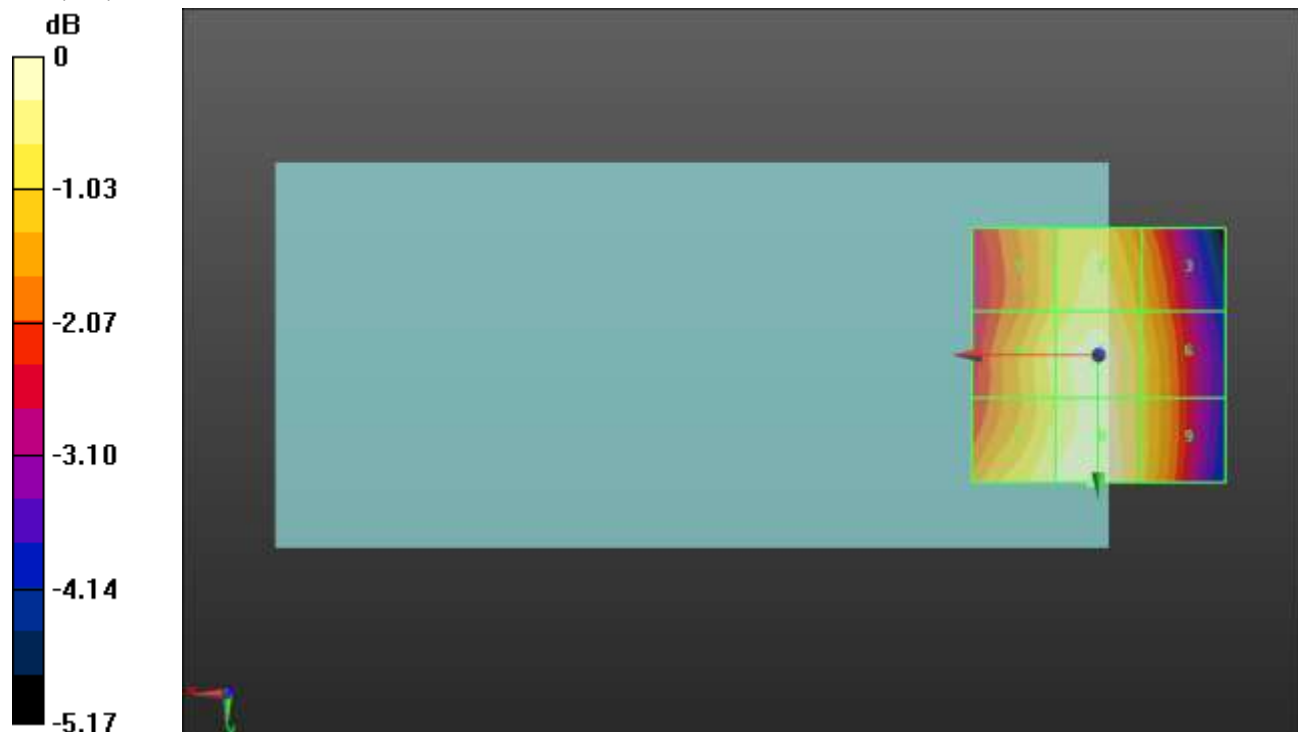
Grid 1 M4 32.59 dBV/m	Grid 2 M4 33.06 dBV/m	Grid 3 M4 32.41 dBV/m
Grid 4 M4 33 dBV/m	Grid 5 M4 33.36 dBV/m	Grid 6 M4 32.67 dBV/m
Grid 7 M4 33.26 dBV/m	Grid 8 M4 33.52 dBV/m	Grid 9 M4 32.69 dBV/m

Cursor:

Total = 33.52 dBV/m

E Category: M4

Location: 1.5, 25, 7.7 mm



0 dB = 47.42 V/m = 33.52 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: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/13/2018;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- 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 = 13.03 V/m; Power Drift = -0.05 dB

Applied MIF = 3.63 dB

RF audio interference level = 30.88 dBV/m

Emission category: M3

MIF scaled E-field

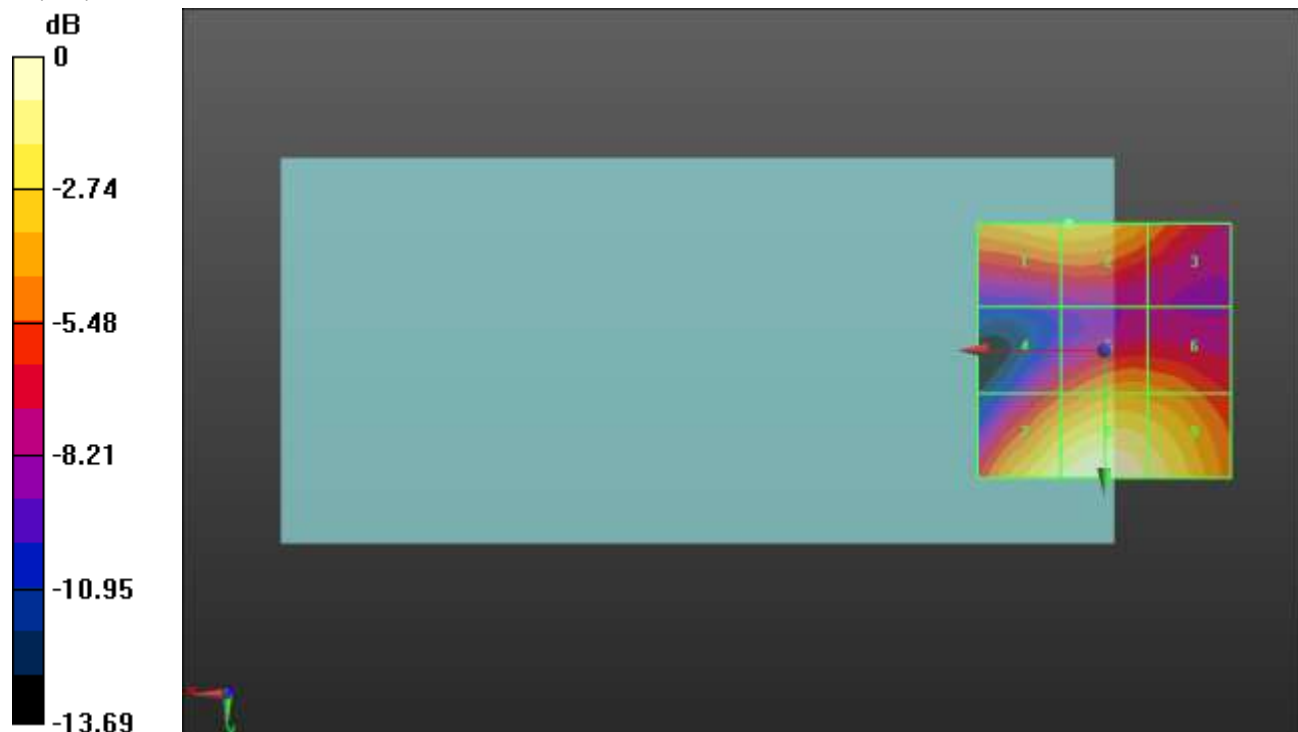
Grid 1 M4 28.34 dBV/m	Grid 2 M4 28.36 dBV/m	Grid 3 M4 26.3 dBV/m
Grid 4 M4 25.21 dBV/m	Grid 5 M4 27.13 dBV/m	Grid 6 M4 26.91 dBV/m
Grid 7 M3 30.06 dBV/m	Grid 8 M3 30.88 dBV/m	Grid 9 M4 29.91 dBV/m

Cursor:

Total = 30.88 dBV/m

E Category: M3

Location: 0, 25, 7.7 mm



0 dB = 35.01 V/m = 30.88 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: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/13/2018;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- 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 = 9.712 V/m; Power Drift = -0.12 dB

Applied MIF = 3.63 dB

RF audio interference level = 28.65 dBV/m

Emission category: M4

MIF scaled E-field

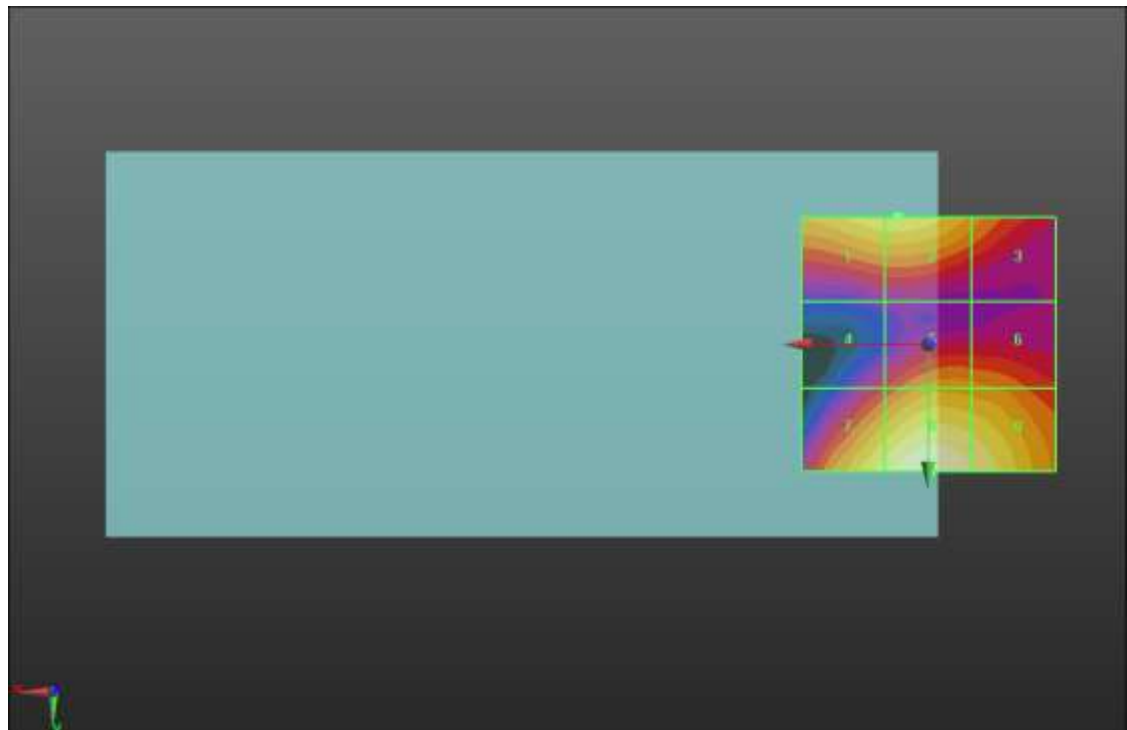
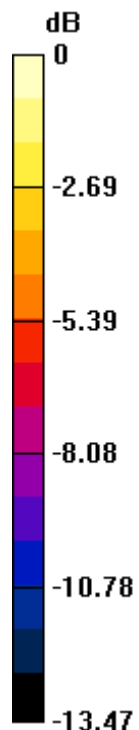
Grid 1 M4 26.63 dBV/m	Grid 2 M4 26.73 dBV/m	Grid 3 M4 24.72 dBV/m
Grid 4 M4 22.42 dBV/m	Grid 5 M4 24.79 dBV/m	Grid 6 M4 24.55 dBV/m
Grid 7 M4 27.5 dBV/m	Grid 8 M4 28.65 dBV/m	Grid 9 M4 27.77 dBV/m

Cursor:

Total = 28.65 dBV/m

E Category: M4

Location: -0.5, 25, 7.7 mm



0 dB = 27.08 V/m = 28.65 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: EF3DV3 - SN4028; ConvF(1, 1, 1); Calibrated: 7/13/2018;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- 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 = 11.11 V/m; Power Drift = -0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 27.13 dBV/m

Emission category: M4

MIF scaled E-field

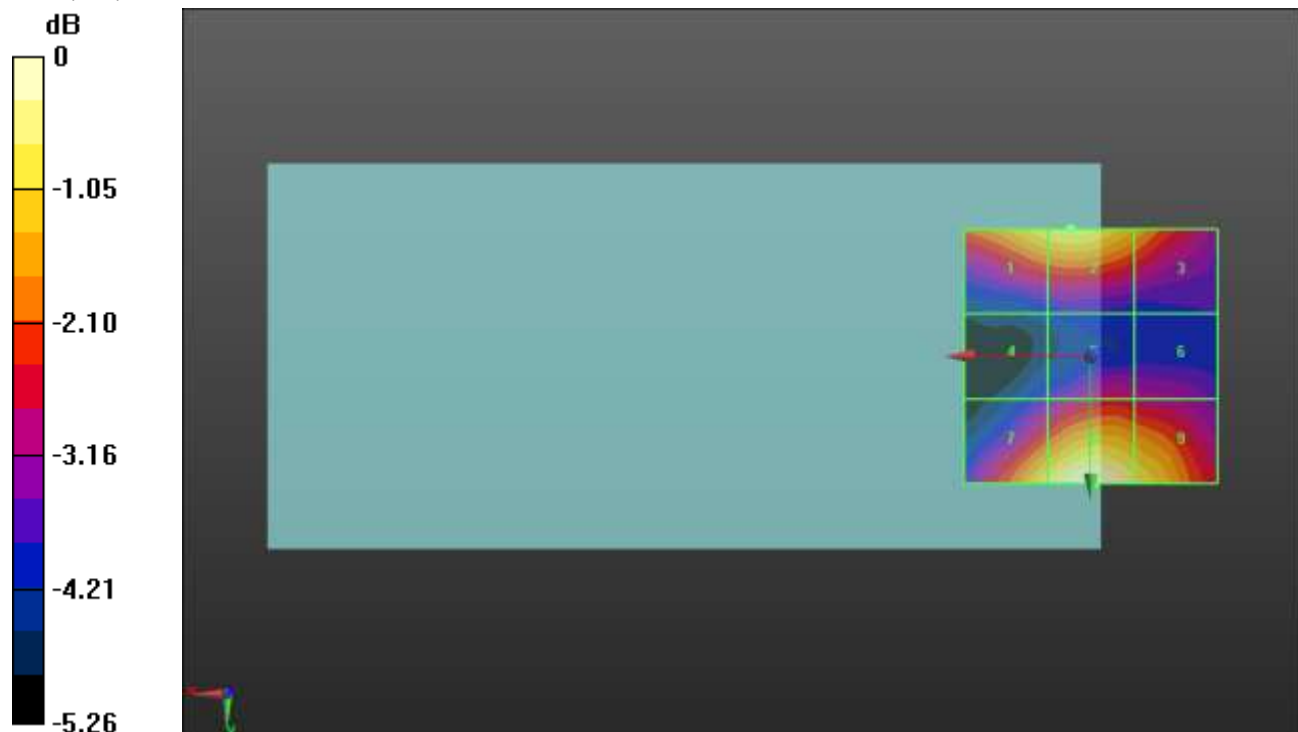
Grid 1 M4 26.44 dBV/m	Grid 2 M4 26.63 dBV/m	Grid 3 M4 25.74 dBV/m
Grid 4 M4 23.56 dBV/m	Grid 5 M4 24.49 dBV/m	Grid 6 M4 24.28 dBV/m
Grid 7 M4 26.52 dBV/m	Grid 8 M4 27.13 dBV/m	Grid 9 M4 26.56 dBV/m

Cursor:

Total = 27.13 dBV/m

E Category: M4

Location: -0.5, 25, 7.7 mm



0 dB = 22.73 V/m = 27.13 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, 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: 7/13/2018;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- 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/SC-FDMA 1RB 20 MHz 16QAM 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 = 28.06 V/m; Power Drift = -0.08 dB

Applied MIF = -1.44 dB

RF audio interference level = 26.17 dBV/m

Emission category: M4

MIF scaled E-field

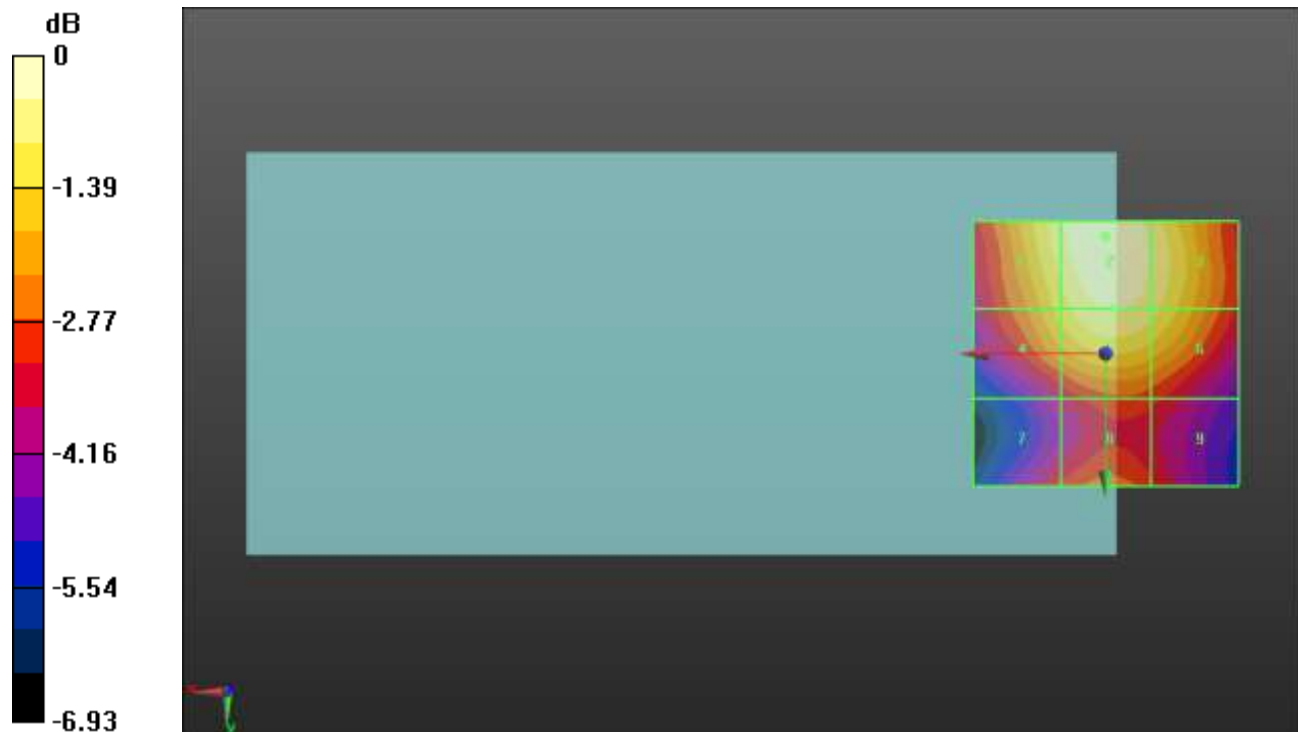
Grid 1 M4 25.62 dBV/m	Grid 2 M4 26.17 dBV/m	Grid 3 M4 25.67 dBV/m
Grid 4 M4 24.97 dBV/m	Grid 5 M4 25.75 dBV/m	Grid 6 M4 25.4 dBV/m
Grid 7 M4 23.12 dBV/m	Grid 8 M4 23.61 dBV/m	Grid 9 M4 23.12 dBV/m

Cursor:

Total = 26.17 dBV/m

E Category: M4

Location: 0, -22, 7.7 mm



0 dB = 20.34 V/m = 26.17 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, 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: 7/13/2018;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- 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/SC-FDMA 1RB 20 MHz 16QAM 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 = 21.97 V/m; Power Drift = -0.06 dB

Applied MIF = -1.44 dB

RF audio interference level = 24.94 dBV/m

Emission category: M4

MIF scaled E-field

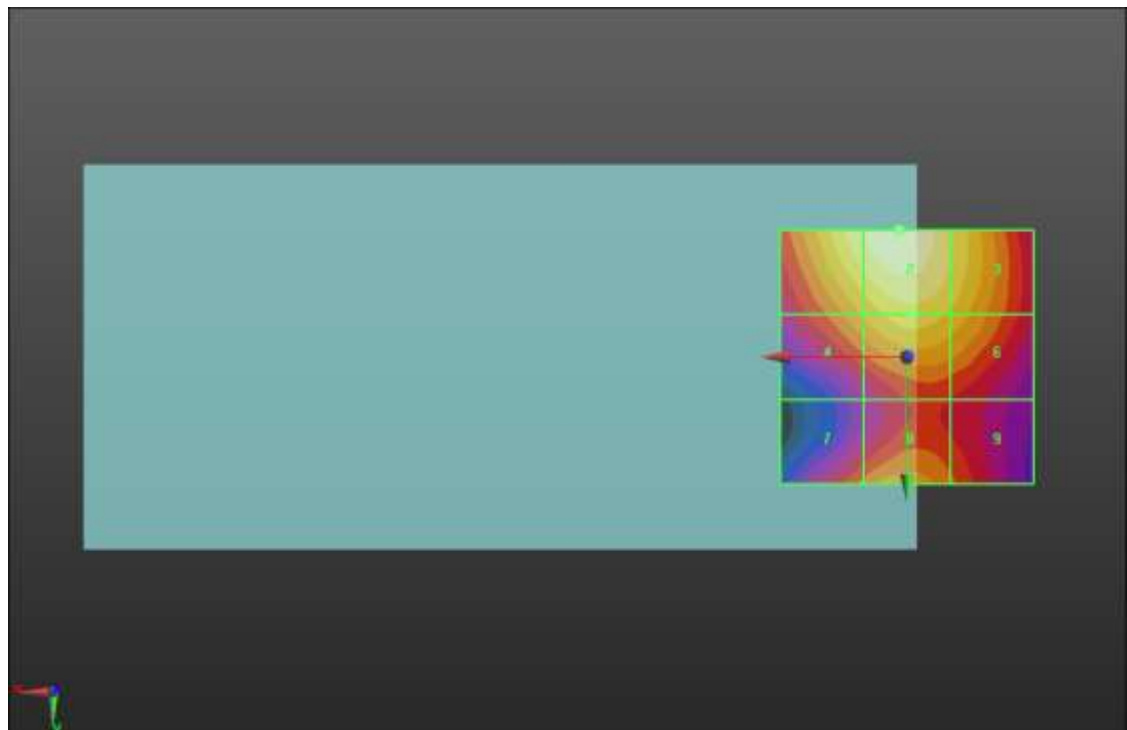
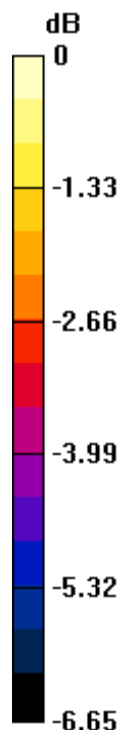
Grid 1 M4 24.55 dBV/m	Grid 2 M4 24.94 dBV/m	Grid 3 M4 24.11 dBV/m
Grid 4 M4 23.22 dBV/m	Grid 5 M4 23.88 dBV/m	Grid 6 M4 23.53 dBV/m
Grid 7 M4 22.49 dBV/m	Grid 8 M4 22.96 dBV/m	Grid 9 M4 22.44 dBV/m

Cursor:

Total = 24.94 dBV/m

E Category: M4

Location: 1.5, -25, 7.7 mm



0 dB = 17.65 V/m = 24.93 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, 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: 7/13/2018;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- 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/SC-FDMA 1RB 20 MHz 16QAM 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 = 20.14 V/m; Power Drift = -0.15 dB

Applied MIF = -1.44 dB

RF audio interference level = 24.18 dBV/m

Emission category: M4

MIF scaled E-field

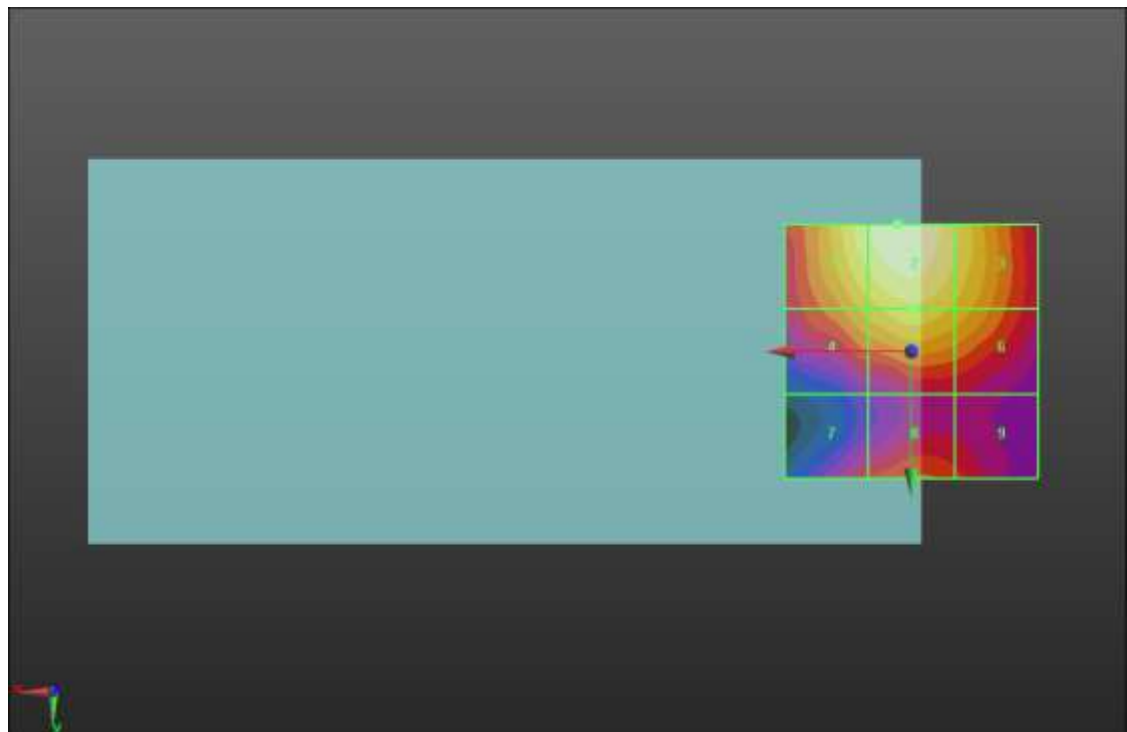
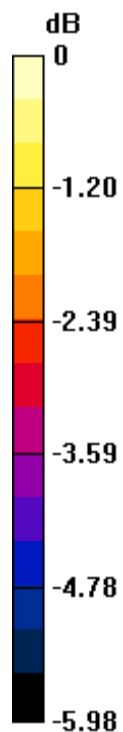
Grid 1 M4 23.77 dBV/m	Grid 2 M4 24.18 dBV/m	Grid 3 M4 23.46 dBV/m
Grid 4 M4 22.79 dBV/m	Grid 5 M4 23.31 dBV/m	Grid 6 M4 22.91 dBV/m
Grid 7 M4 21.45 dBV/m	Grid 8 M4 21.91 dBV/m	Grid 9 M4 21.62 dBV/m

Cursor:

Total = 24.18 dBV/m

E Category: M4

Location: 2.5, -25, 7.7 mm



0 dB = 16.19 V/m = 24.18 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, 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: 7/13/2018;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- 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/SC-FDMA 1RB 20 MHz 16QAM 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 = 18.13 V/m; Power Drift = 0.20 dB

Applied MIF = -1.44 dB

RF audio interference level = 23.43 dBV/m

Emission category: M4

MIF scaled E-field

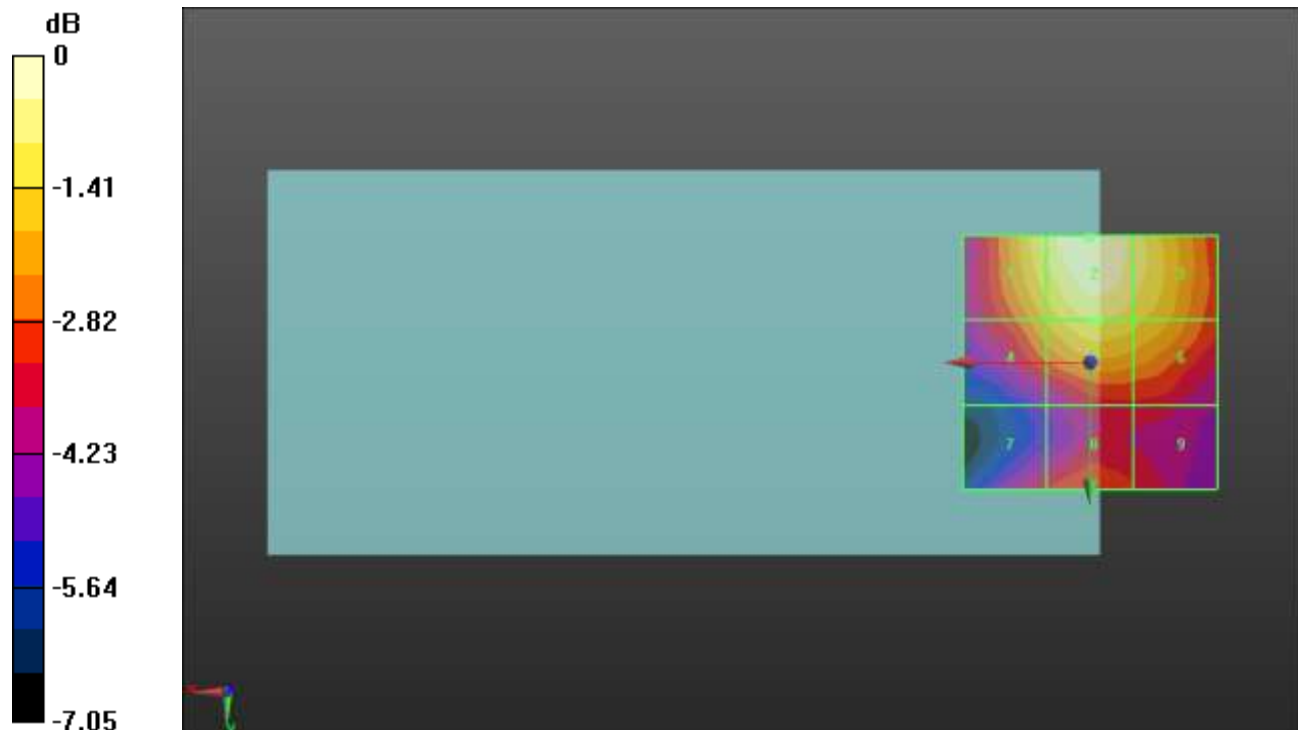
Grid 1 M4 22.78 dBV/m	Grid 2 M4 23.43 dBV/m	Grid 3 M4 22.81 dBV/m
Grid 4 M4 21.68 dBV/m	Grid 5 M4 22.53 dBV/m	Grid 6 M4 22.21 dBV/m
Grid 7 M4 20.2 dBV/m	Grid 8 M4 20.64 dBV/m	Grid 9 M4 20.21 dBV/m

Cursor:

Total = 23.43 dBV/m

E Category: M4

Location: 0, -24.5, 7.7 mm



0 dB = 14.85 V/m = 23.43 dBV/m

HAC-RF Emission

Communication System: UID 10173 - CAG, 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: 7/13/2018;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- 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/SC-FDMA 1RB 20 MHz 16QAM 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 = 17.50 V/m; Power Drift = -0.02 dB

Applied MIF = -1.44 dB

RF audio interference level = 23.34 dBV/m

Emission category: M4

MIF scaled E-field

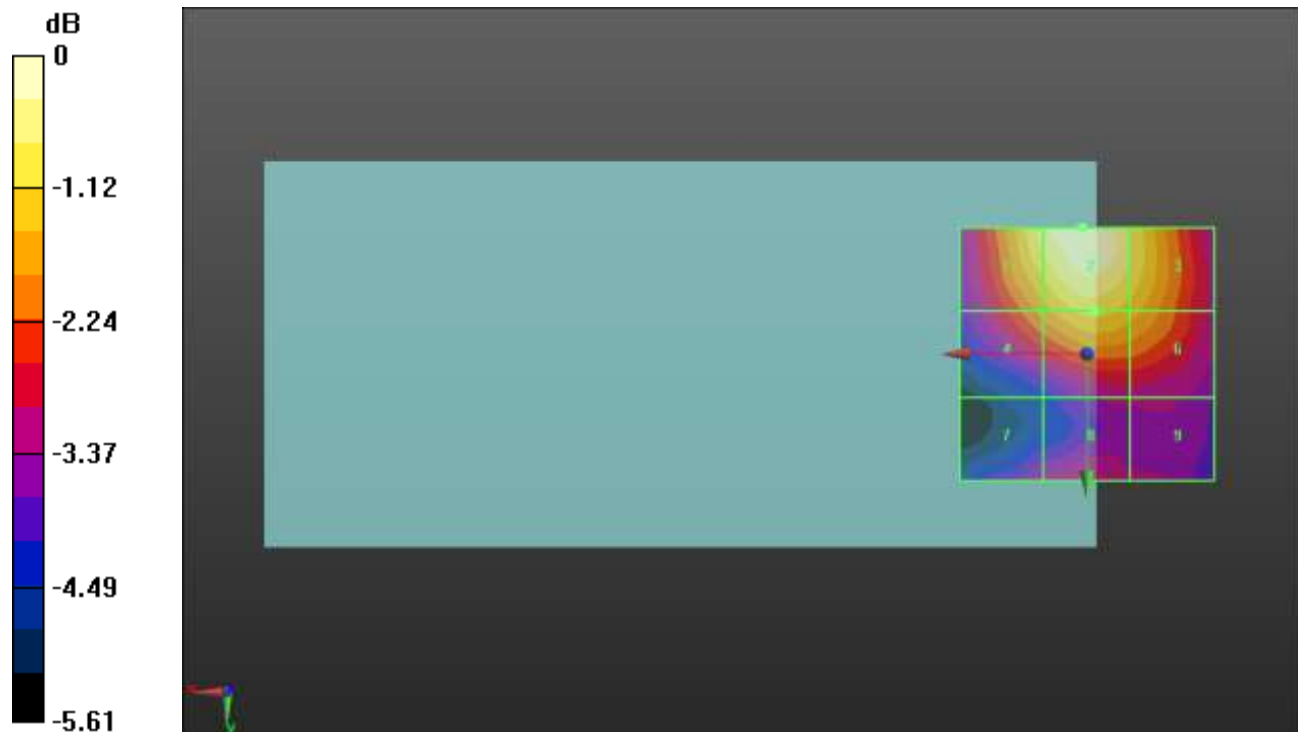
Grid 1 M4 22.83 dBV/m	Grid 2 M4 23.34 dBV/m	Grid 3 M4 22.63 dBV/m
Grid 4 M4 21.66 dBV/m	Grid 5 M4 22.34 dBV/m	Grid 6 M4 22.03 dBV/m
Grid 7 M4 20.13 dBV/m	Grid 8 M4 20.42 dBV/m	Grid 9 M4 20.22 dBV/m

Cursor:

Total = 23.34 dBV/m

E Category: M4

Location: 1, -25, 7.7 mm



0 dB = 14.69 V/m = 23.34 dBV/m

