

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) @ 824.2 MHz; Calibrated: 7/13/2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1547; Calibrated: 5/3/2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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 = 11.31 V/m; Power Drift = -0.17 dB

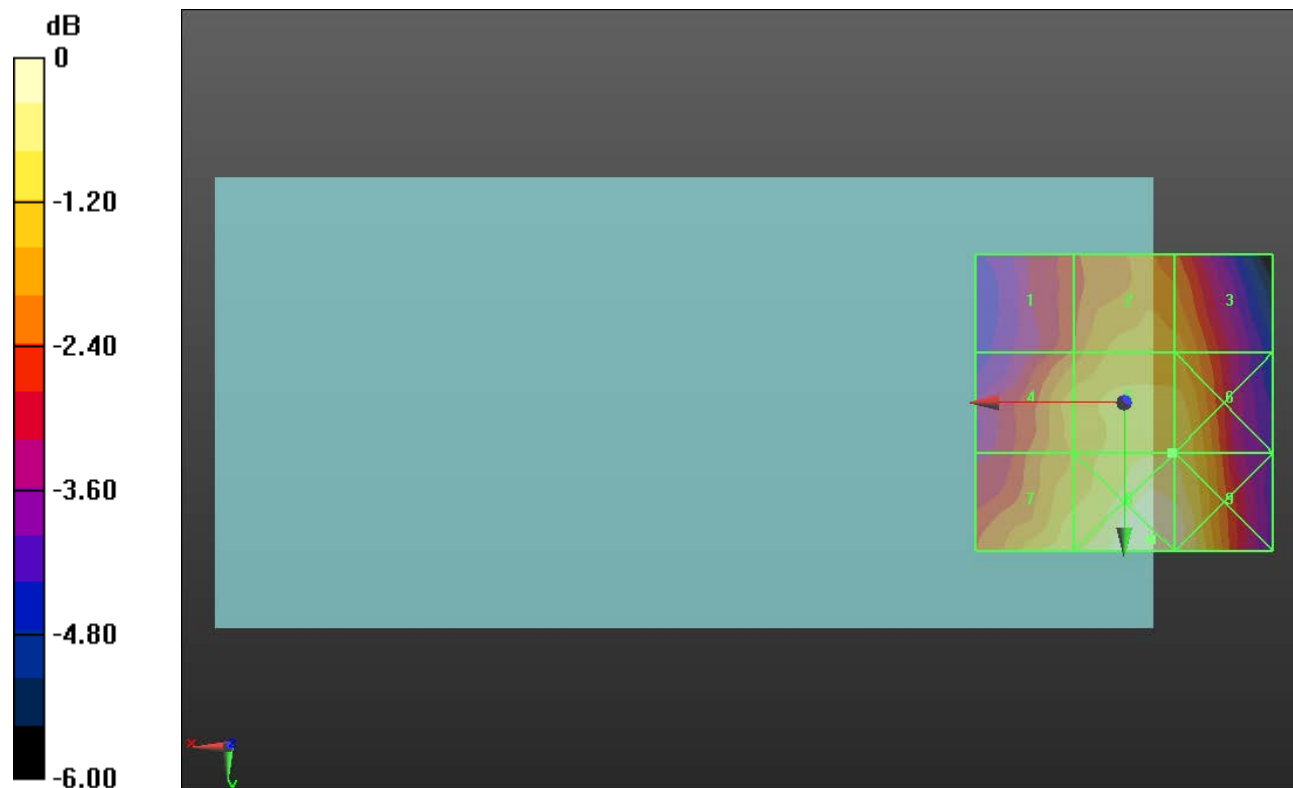
Applied MIF = 3.63 dB

RF audio interference level = 21.45 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 19.95 dBV/m	Grid 2 M4 20.81 dBV/m	Grid 3 M4 20.79 dBV/m
Grid 4 M4 20.85 dBV/m	Grid 5 M4 21.45 dBV/m	Grid 6 M4 21.44 dBV/m
Grid 7 M4 21.34 dBV/m	Grid 8 M4 22.23 dBV/m	Grid 9 M4 22.07 dBV/m



0 dB = 12.93 V/m = 22.23 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) @ 836.6 MHz; Calibrated: 7/13/2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1547; Calibrated: 5/3/2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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 = 11.72 V/m; Power Drift = -0.03 dB

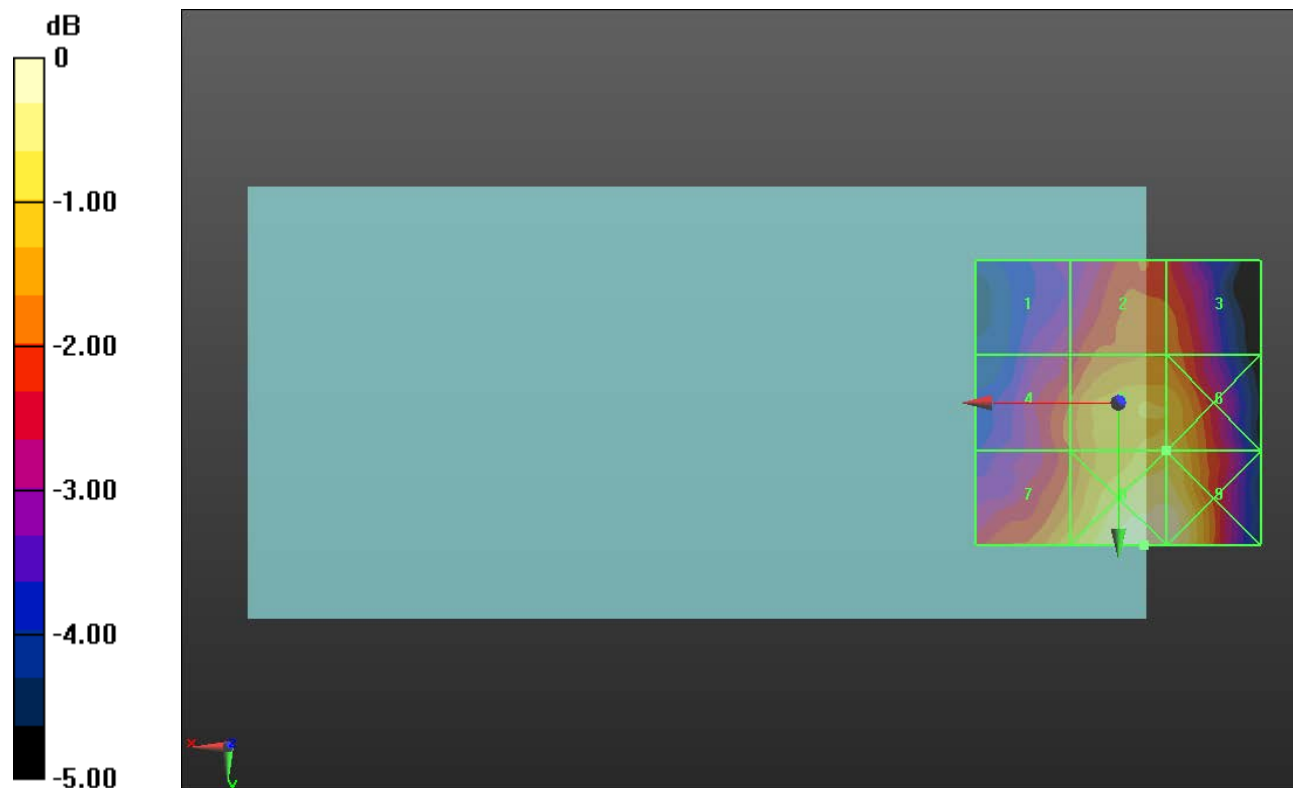
Applied MIF = 3.63 dB

RF audio interference level = 21.94 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 20.16 dBV/m	Grid 2 M4 21.08 dBV/m	Grid 3 M4 21.04 dBV/m
Grid 4 M4 20.92 dBV/m	Grid 5 M4 21.94 dBV/m	Grid 6 M4 21.94 dBV/m
Grid 7 M4 21.68 dBV/m	Grid 8 M4 22.74 dBV/m	Grid 9 M4 22.66 dBV/m



0 dB = 13.71 V/m = 22.74 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) @ 848.6 MHz; Calibrated: 7/13/2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1547; Calibrated: 5/3/2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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 = 10.70 V/m; Power Drift = 0.08 dB

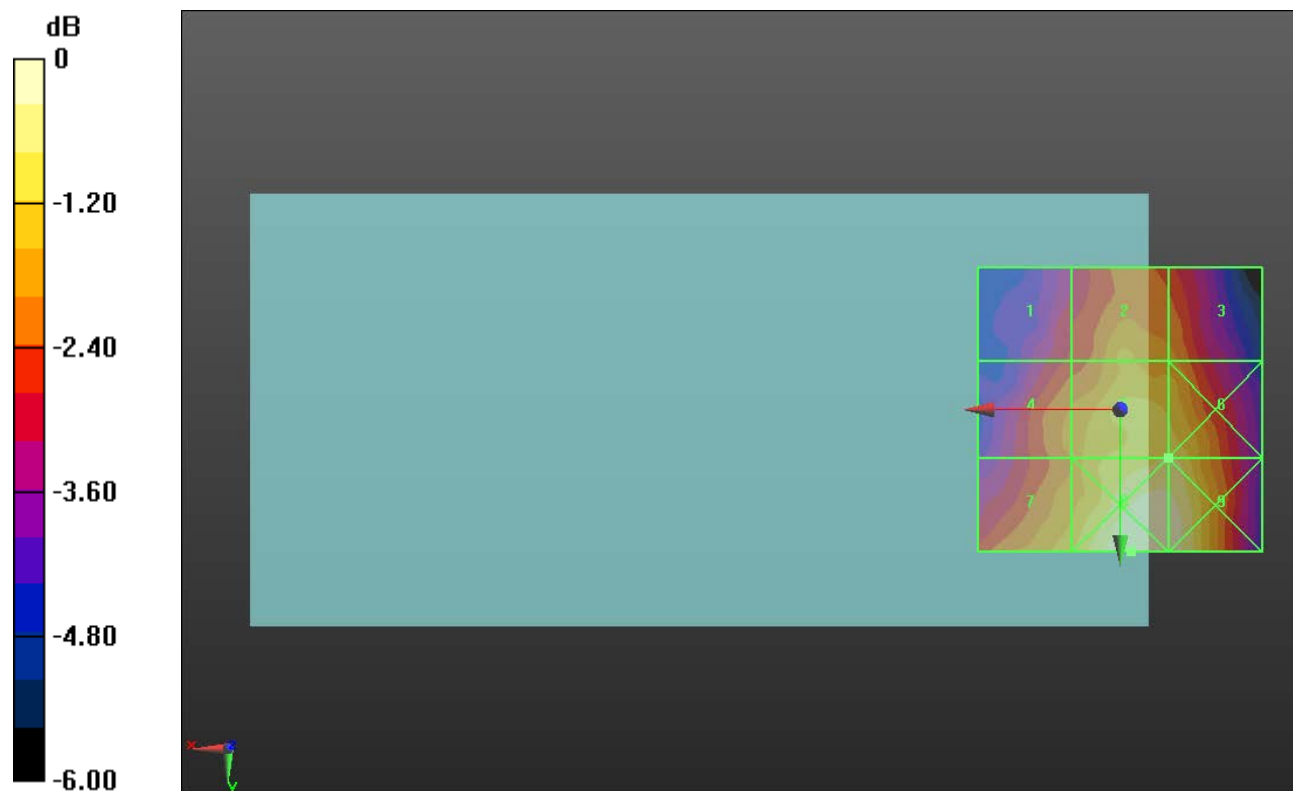
Applied MIF = 3.63 dB

RF audio interference level = 21.34 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 19.44 dBV/m	Grid 2 M4 20.57 dBV/m	Grid 3 M4 20.27 dBV/m
Grid 4 M4 20.28 dBV/m	Grid 5 M4 21.34 dBV/m	Grid 6 M4 21.34 dBV/m
Grid 7 M4 20.91 dBV/m	Grid 8 M4 22.08 dBV/m	Grid 9 M4 21.99 dBV/m



0 dB = 12.70 V/m = 22.08 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) @ 1850.2 MHz; Calibrated: 7/13/2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1547; Calibrated: 5/3/2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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 = 12.33 V/m; Power Drift = -0.14 dB

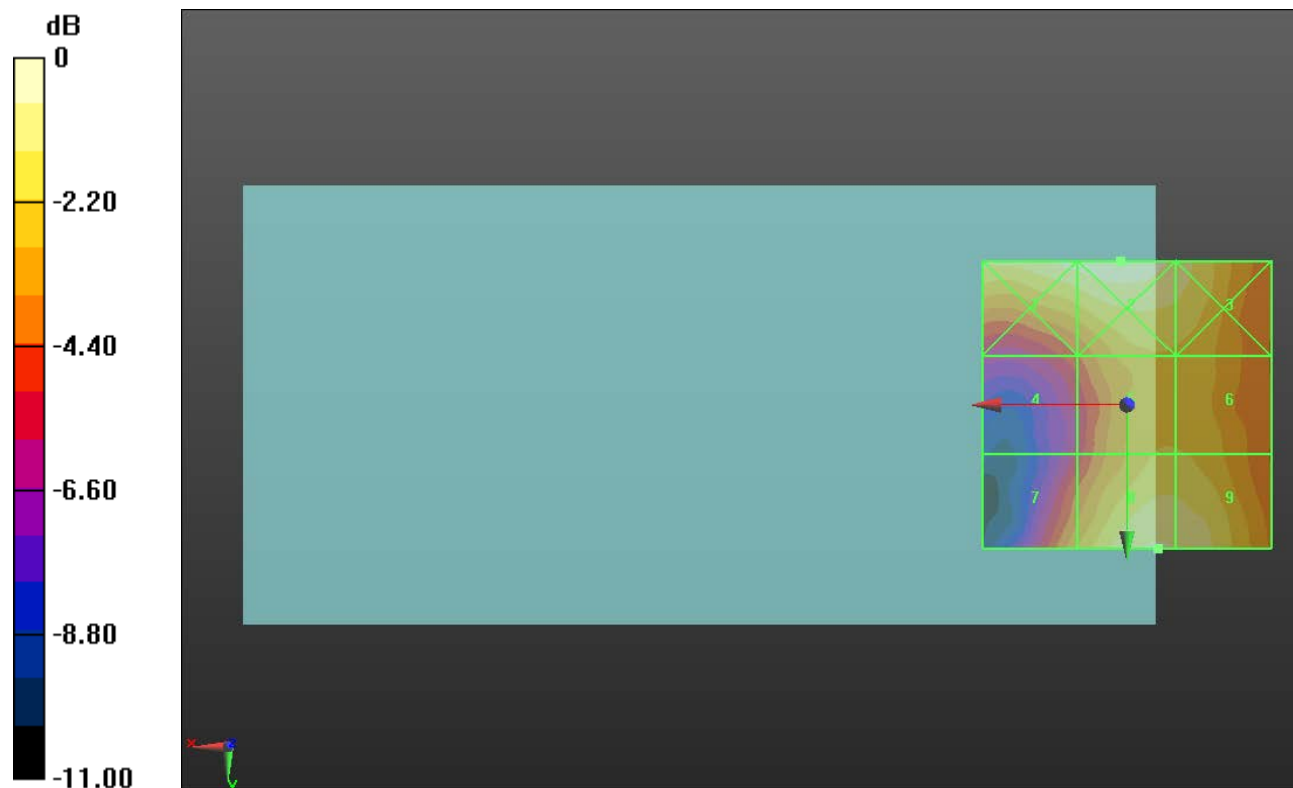
Applied MIF = 3.63 dB

RF audio interference level = 24.30 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 24.64 dBV/m	Grid 2 M4 24.92 dBV/m	Grid 3 M4 23.95 dBV/m
Grid 4 M4 20.51 dBV/m	Grid 5 M4 22.83 dBV/m	Grid 6 M4 22.81 dBV/m
Grid 7 M4 22.13 dBV/m	Grid 8 M4 24.3 dBV/m	Grid 9 M4 24.17 dBV/m



0 dB = 17.62 V/m = 24.92 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) @ 1880 MHz; Calibrated: 7/13/2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1547; Calibrated: 5/3/2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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 = 8.043 V/m; Power Drift = -0.12 dB

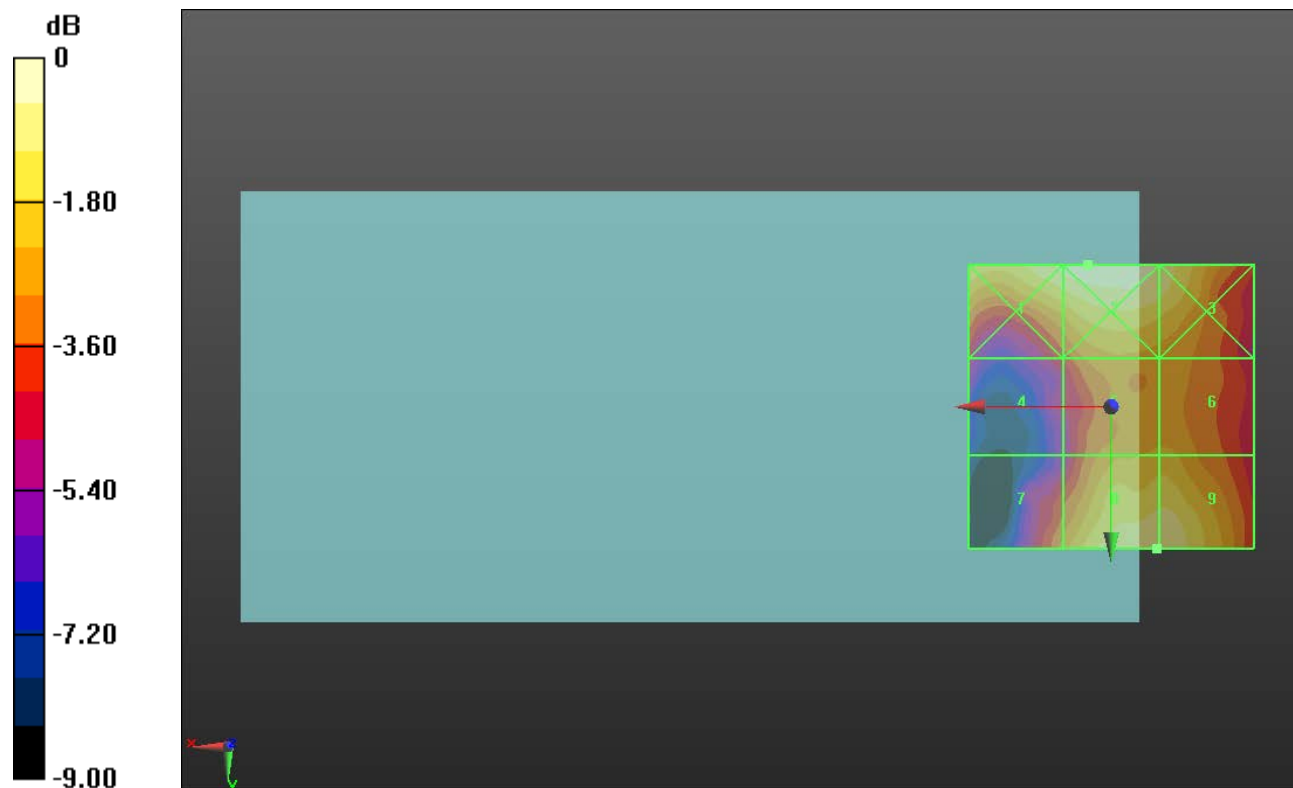
Applied MIF = 3.63 dB

RF audio interference level = 21.18 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 21.37 dBV/m	Grid 2 M4 21.73 dBV/m	Grid 3 M4 20.98 dBV/m
Grid 4 M4 17.71 dBV/m	Grid 5 M4 19.56 dBV/m	Grid 6 M4 19.58 dBV/m
Grid 7 M4 19.07 dBV/m	Grid 8 M4 21.18 dBV/m	Grid 9 M4 21.17 dBV/m



0 dB = 12.20 V/m = 21.73 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) @ 1909.8 MHz; Calibrated: 7/13/2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1547; Calibrated: 5/3/2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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 = 4.978 V/m; Power Drift = -0.69 dB

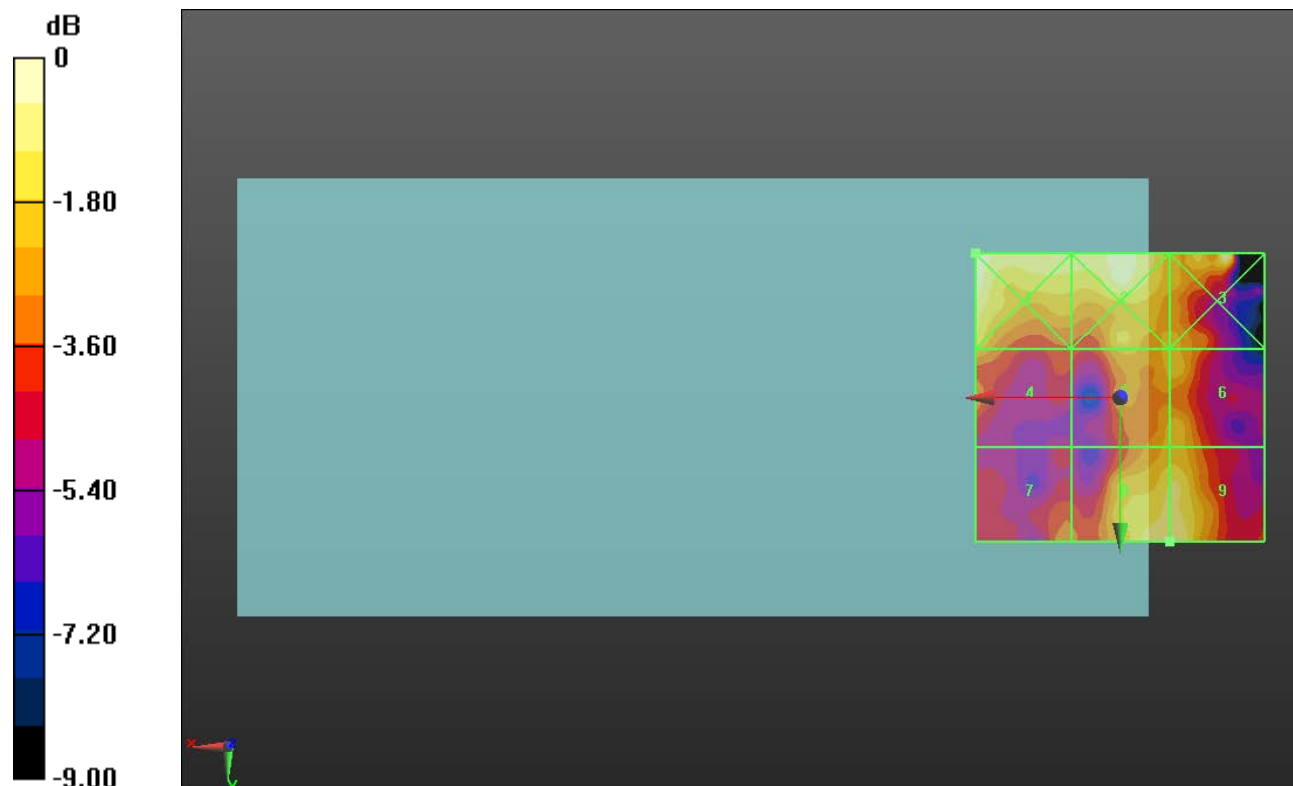
Applied MIF = 3.63 dB

RF audio interference level = 16.30 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 16.74 dBV/m	Grid 2 M4 16.42 dBV/m	Grid 3 M4 16.64 dBV/m
Grid 4 M4 14.81 dBV/m	Grid 5 M4 14.7 dBV/m	Grid 6 M4 14.73 dBV/m
Grid 7 M4 13.63 dBV/m	Grid 8 M4 16.3 dBV/m	Grid 9 M4 16.3 dBV/m



0 dB = 6.874 V/m = 16.74 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) @ 2506 MHz; Calibrated: 7/13/2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1547; Calibrated: 5/3/2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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 = 6.374 V/m; Power Drift = -0.37 dB

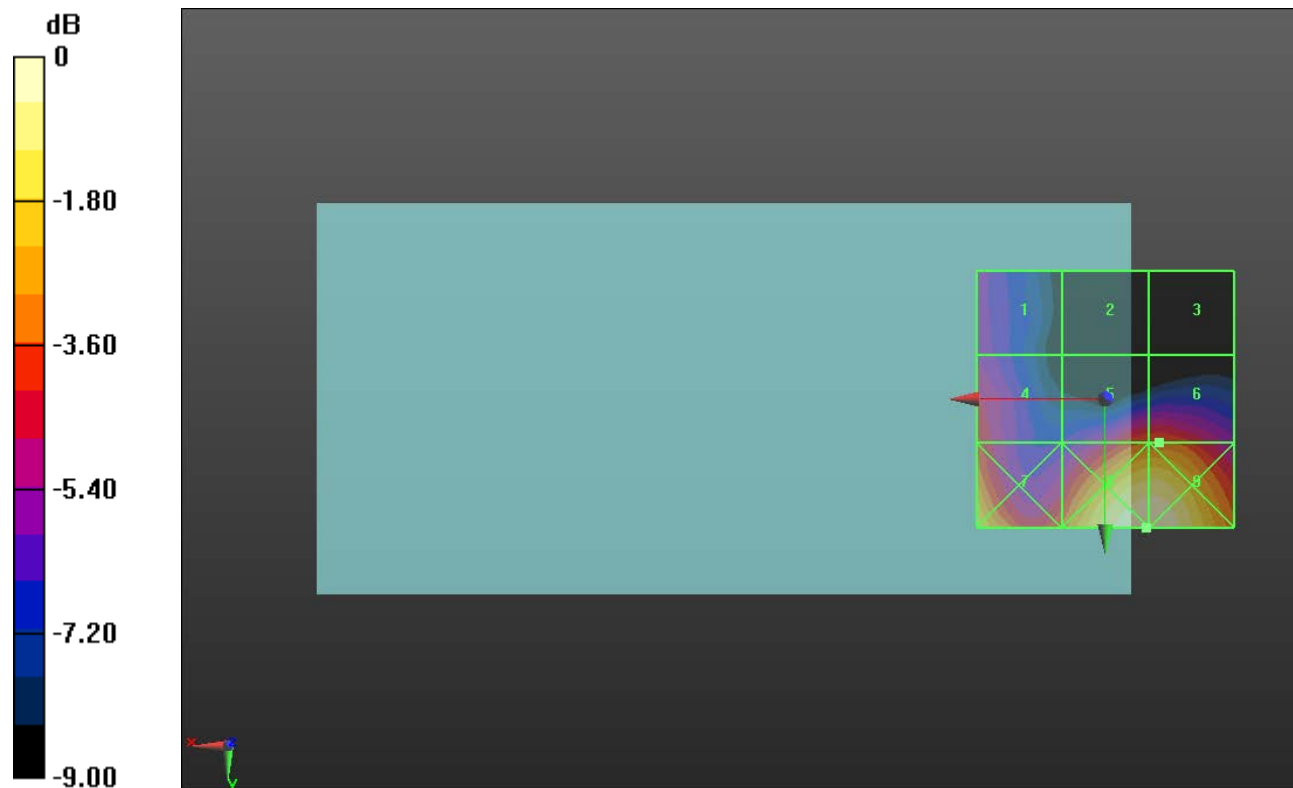
Applied MIF = -1.44 dB

RF audio interference level = 18.27 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 16.26 dBV/m	Grid 2 M4 12.88 dBV/m	Grid 3 M4 12.29 dBV/m
Grid 4 M4 17.82 dBV/m	Grid 5 M4 18.24 dBV/m	Grid 6 M4 18.27 dBV/m
Grid 7 M4 20.49 dBV/m	Grid 8 M4 21.71 dBV/m	Grid 9 M4 21.71 dBV/m



0 dB = 12.18 V/m = 21.71 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) @ 2549.5 MHz; Calibrated: 7/13/2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1547; Calibrated: 5/3/2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (1);SEMCAD X Version 14.6.11 (7439)

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 = 8.349 V/m; Power Drift = -0.91 dB

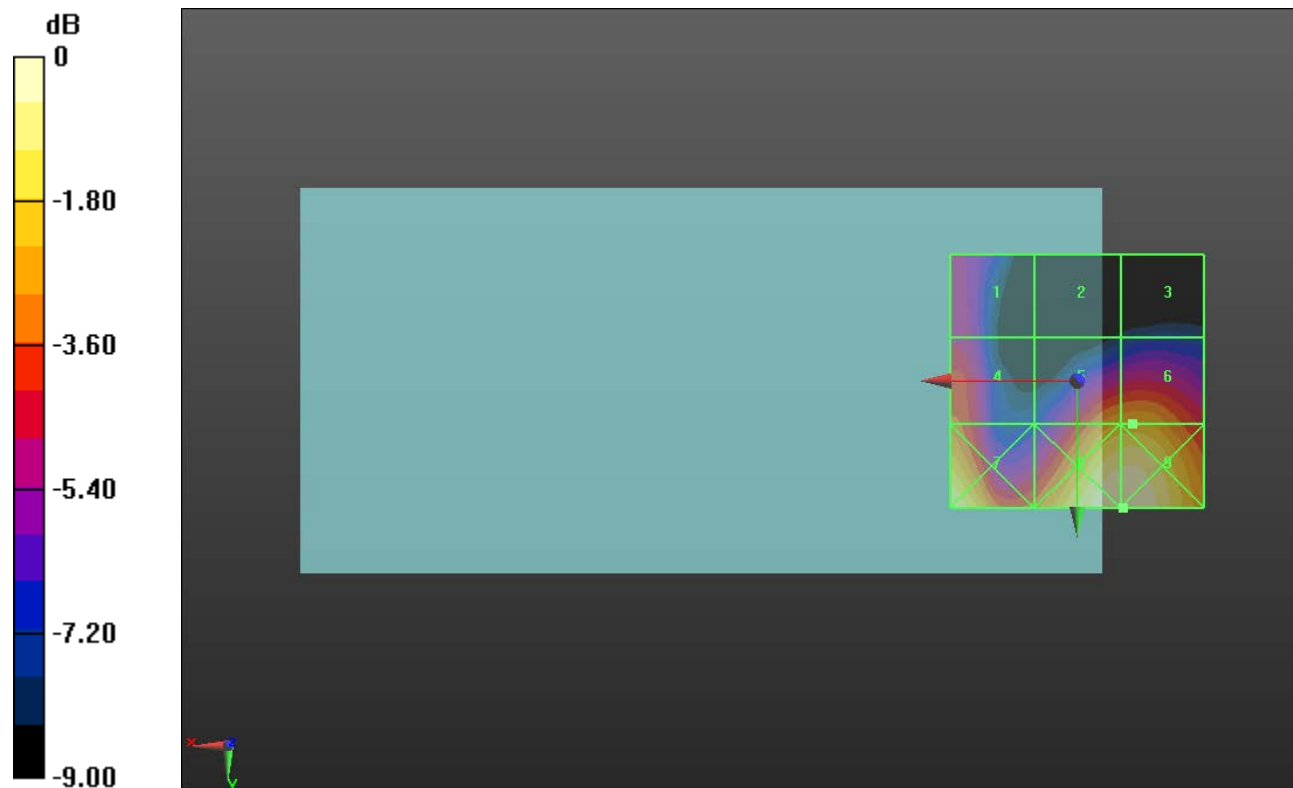
Applied MIF = -1.44 dB

RF audio interference level = 19.44 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 16.77 dBV/m	Grid 2 M4 13.66 dBV/m	Grid 3 M4 14.28 dBV/m
Grid 4 M4 18.39 dBV/m	Grid 5 M4 19.33 dBV/m	Grid 6 M4 19.44 dBV/m
Grid 7 M4 21.52 dBV/m	Grid 8 M4 21.65 dBV/m	Grid 9 M4 21.66 dBV/m



0 dB = 12.10 V/m = 21.66 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) @ 2593 MHz; Calibrated: 7/13/2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1547; Calibrated: 5/3/2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (1);SEMCAD X Version 14.6.11 (7439)

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 = 8.658 V/m; Power Drift = -0.51 dB

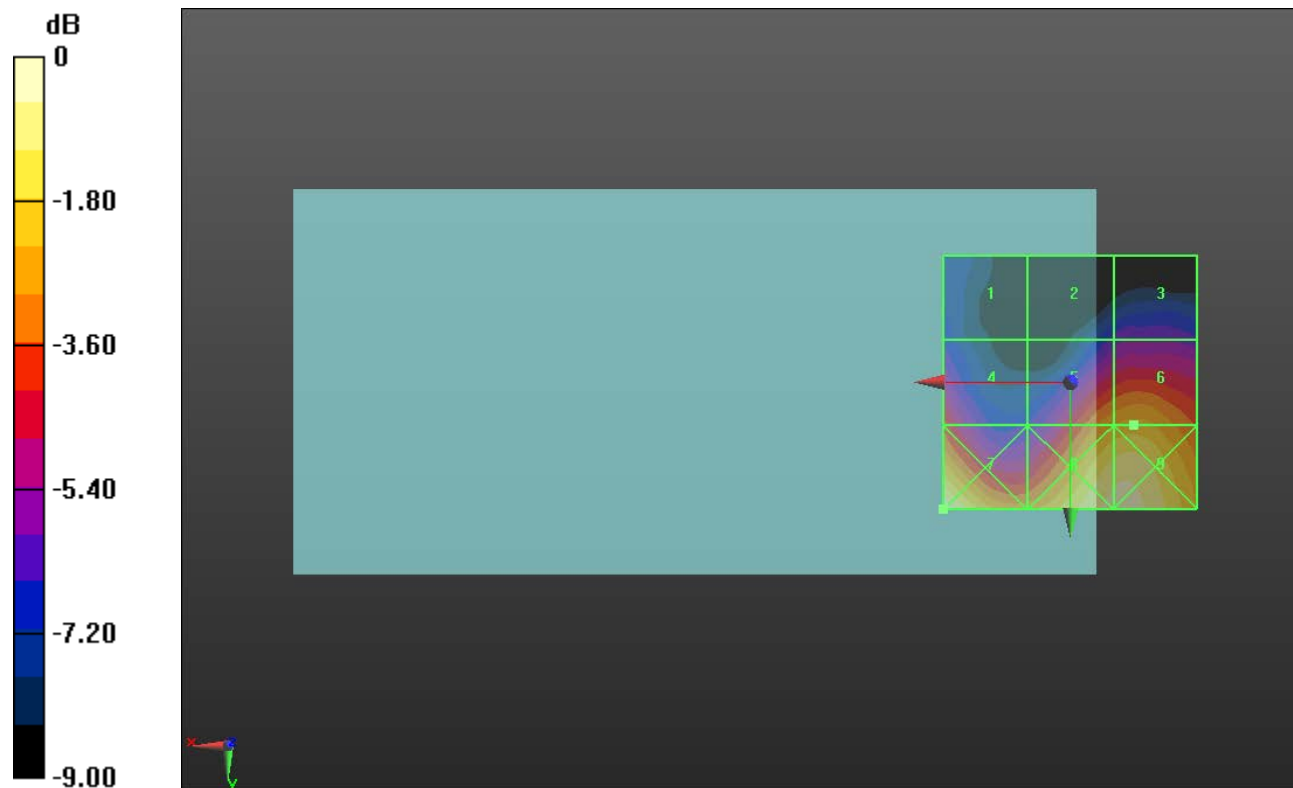
Applied MIF = -1.44 dB

RF audio interference level = 19.79 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 15.32 dBV/m	Grid 2 M4 15.56 dBV/m	Grid 3 M4 15.94 dBV/m
Grid 4 M4 18.06 dBV/m	Grid 5 M4 19.52 dBV/m	Grid 6 M4 19.79 dBV/m
Grid 7 M4 21.91 dBV/m	Grid 8 M4 21.54 dBV/m	Grid 9 M4 21.56 dBV/m



0 dB = 12.46 V/m = 21.91 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) @ 2636.5 MHz; Calibrated: 7/13/2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1547; Calibrated: 5/3/2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (1);SEMCAD X Version 14.6.11 (7439)

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 = 9.996 V/m; Power Drift = -0.16 dB

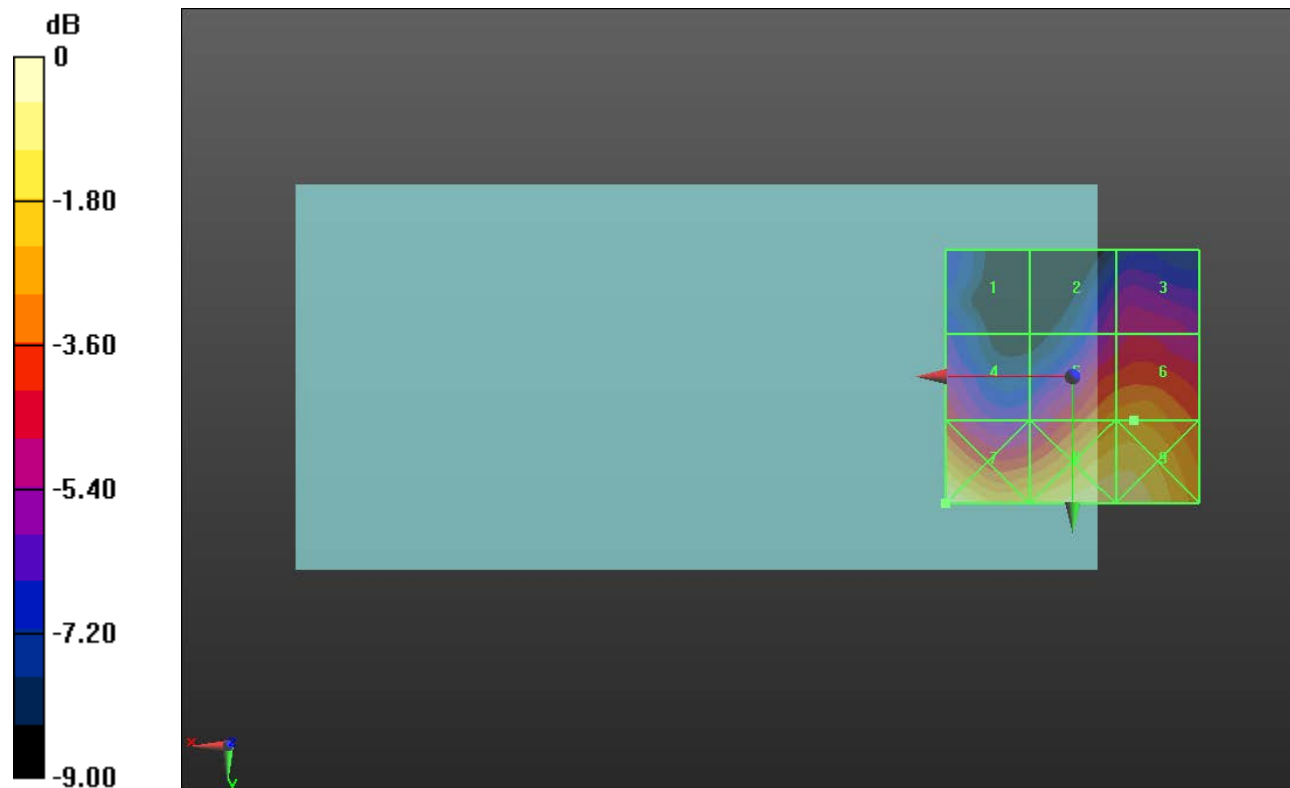
Applied MIF = -1.44 dB

RF audio interference level = 19.99 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 15.95 dBV/m	Grid 2 M4 17.22 dBV/m	Grid 3 M4 17.6 dBV/m
Grid 4 M4 18.39 dBV/m	Grid 5 M4 19.78 dBV/m	Grid 6 M4 19.99 dBV/m
Grid 7 M4 22.4 dBV/m	Grid 8 M4 21.74 dBV/m	Grid 9 M4 21.74 dBV/m



0 dB = 13.18 V/m = 22.40 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) @ 2680 MHz; Calibrated: 7/13/2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1547; Calibrated: 5/3/2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7439)

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 = 11.76 V/m; Power Drift = -0.04 dB

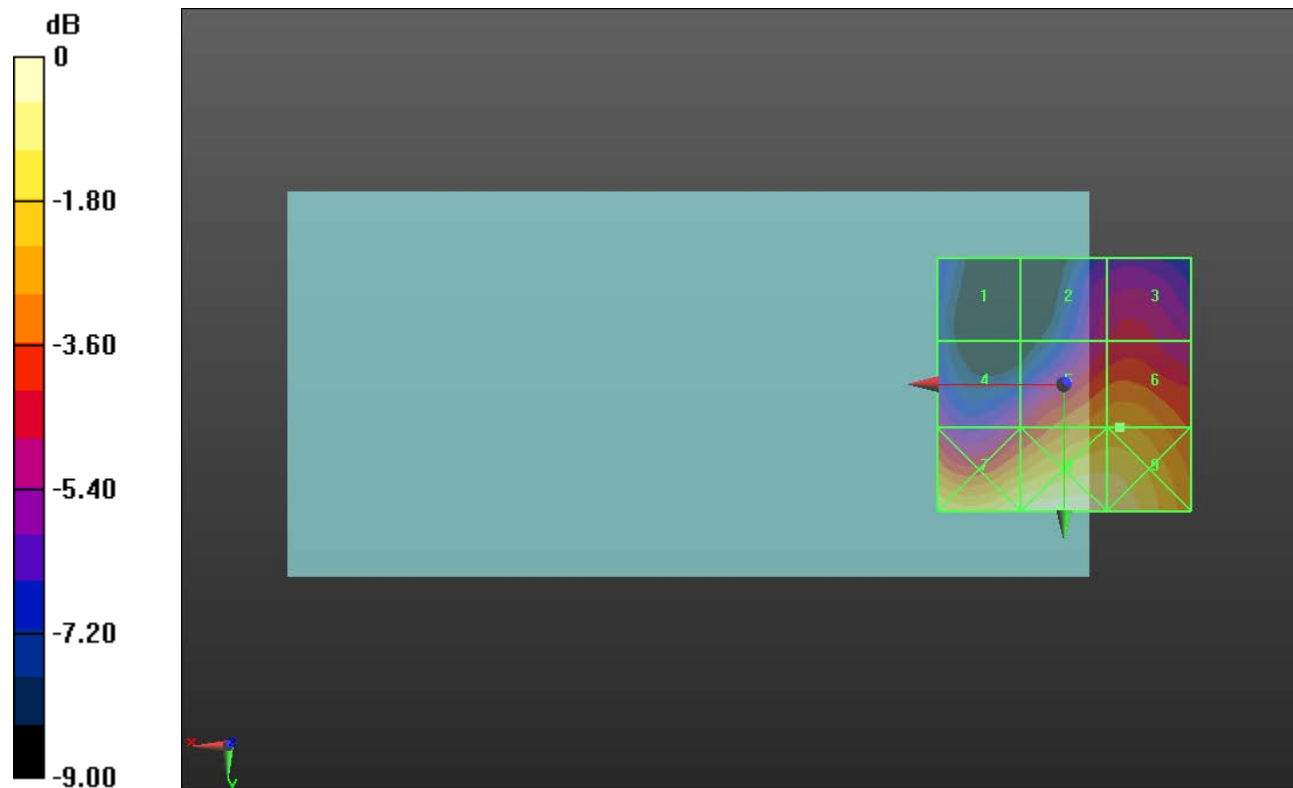
Applied MIF = -1.44 dB

RF audio interference level = 20.22 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 16.16 dBV/m	Grid 2 M4 17.68 dBV/m	Grid 3 M4 18.04 dBV/m
Grid 4 M4 17.8 dBV/m	Grid 5 M4 20.13 dBV/m	Grid 6 M4 20.22 dBV/m
Grid 7 M4 21.97 dBV/m	Grid 8 M4 22.48 dBV/m	Grid 9 M4 21.98 dBV/m



0 dB = 13.30 V/m = 22.48 dBV/m