HAC-RF Emission

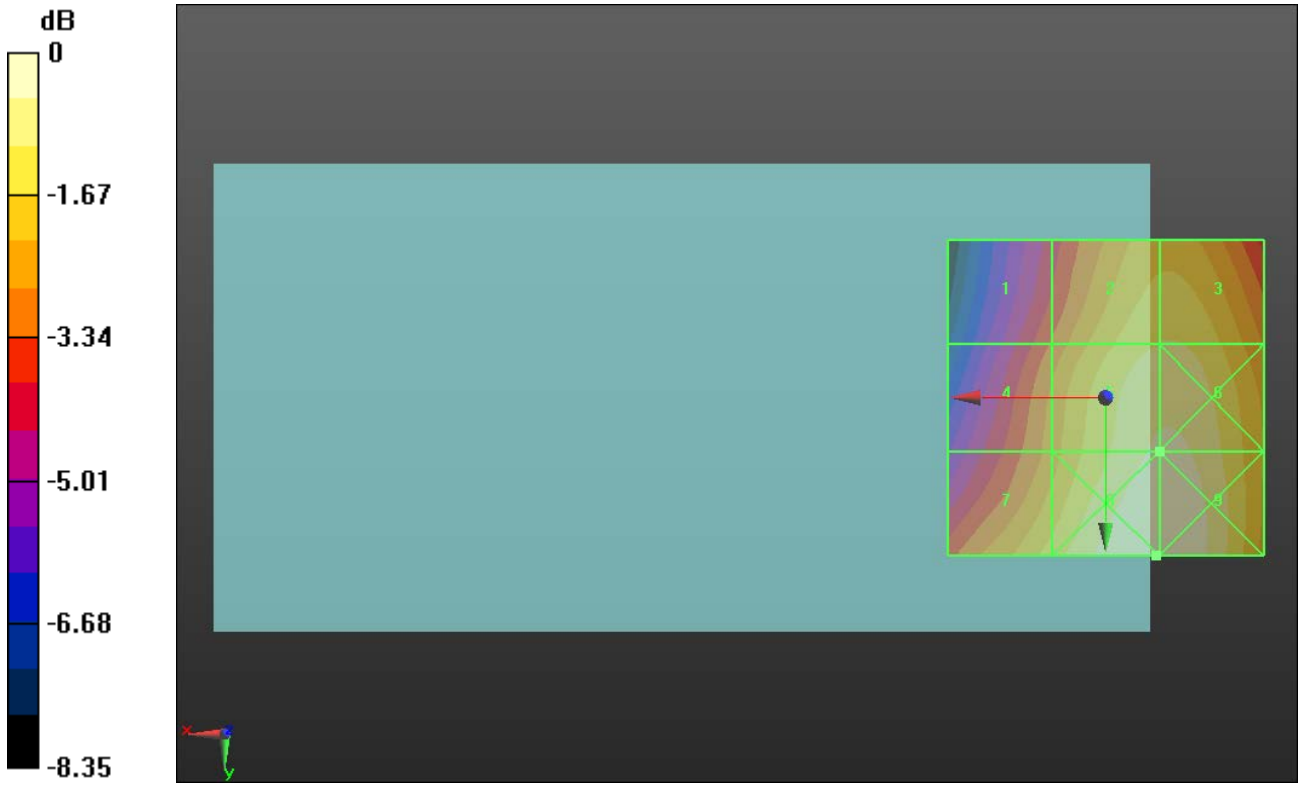
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 = 45.04 V/m; Power Drift = -0.15 dB
Applied MIF = 3.63 dB
RF audio interference level = 35.36 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **32.59 dBV/m**	Grid 2 **M4** **34.73 dBV/m**	Grid 3 **M4** **34.75 dBV/m**
Grid 4 **M4** **33.35 dBV/m**	Grid 5 **M4** **35.36 dBV/m**	Grid 6 **M4** **35.38 dBV/m**
Grid 7 **M4** **34.43 dBV/m**	Grid 8 **M4** **35.82 dBV/m**	Grid 9 **M4** **35.82 dBV/m**



0 dB = 61.83 V/m = 35.82 dBV/m

HAC-RF Emission

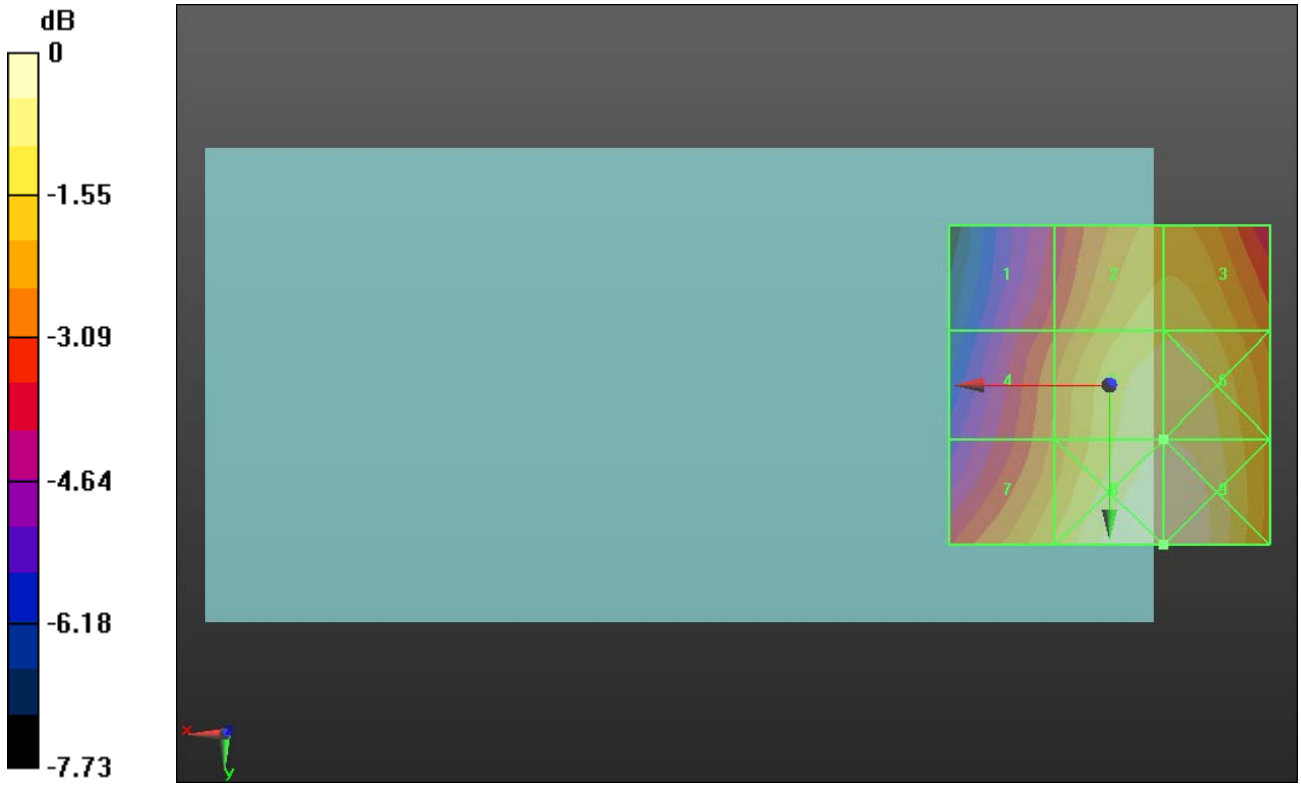
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 = 44.09 V/m; Power Drift = 0.25 dB
Applied MIF = 3.63 dB
RF audio interference level = 35.47 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **32.82 dBV/m**	Grid 2 **M4** **34.87 dBV/m**	Grid 3 **M4** **34.88 dBV/m**
Grid 4 **M4** **33.57 dBV/m**	Grid 5 **M4** **35.47 dBV/m**	Grid 6 **M4** **35.47 dBV/m**
Grid 7 **M4** **34.56 dBV/m**	Grid 8 **M4** **35.99 dBV/m**	Grid 9 **M4** **35.99 dBV/m**



0 dB = 63.05 V/m = 35.99 dBV/m

HAC-RF Emission

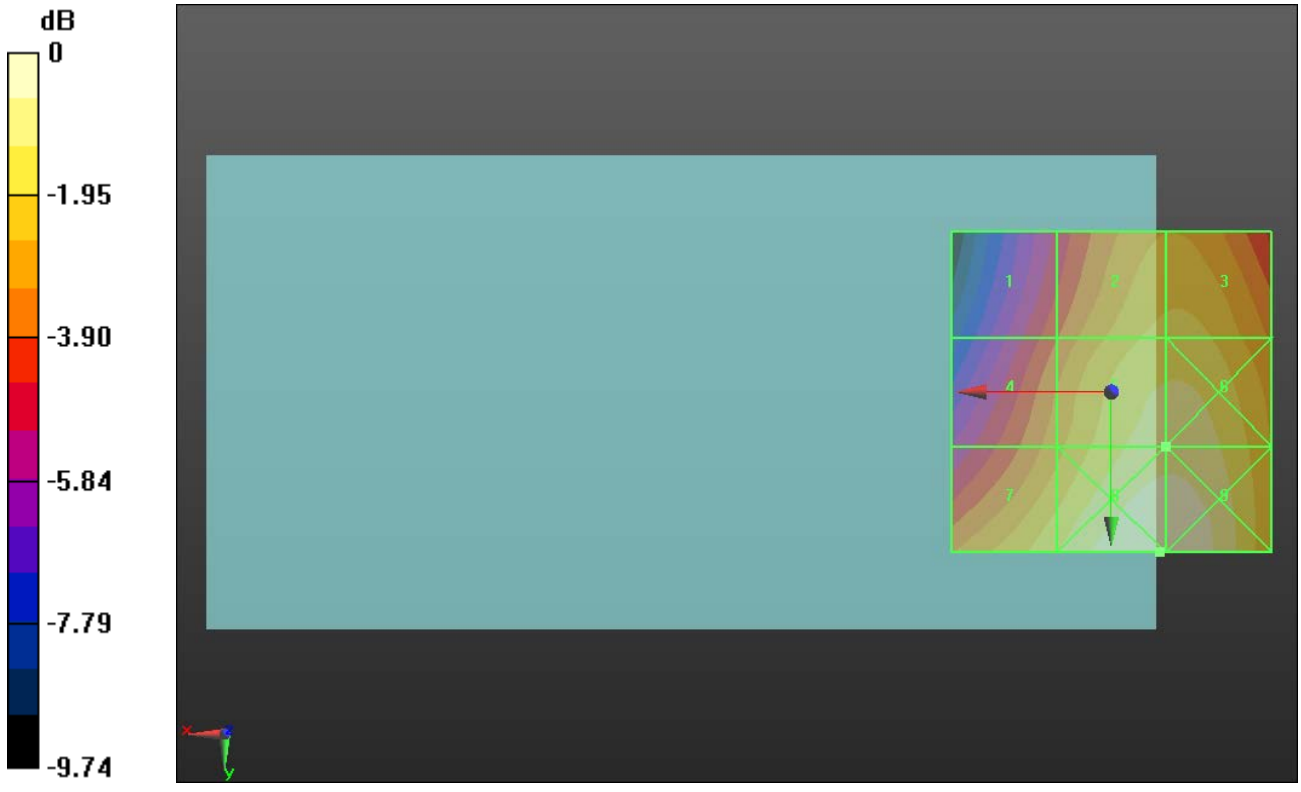
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 = 41.03 V/m; Power Drift = -0.22 dB
Applied MIF = 3.63 dB
RF audio interference level = 34.50 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **31.46 dBV/m**	Grid 2 **M4** **33.67 dBV/m**	Grid 3 **M4** **33.7 dBV/m**
Grid 4 **M4** **32.58 dBV/m**	Grid 5 **M4** **34.5 dBV/m**	Grid 6 **M4** **34.52 dBV/m**
Grid 7 **M4** **34.05 dBV/m**	Grid 8 **M4** **35.38 dBV/m**	Grid 9 **M4** **35.37 dBV/m**



0 dB = 58.75 V/m = 35.38 dBV/m

HAC-RF Emission

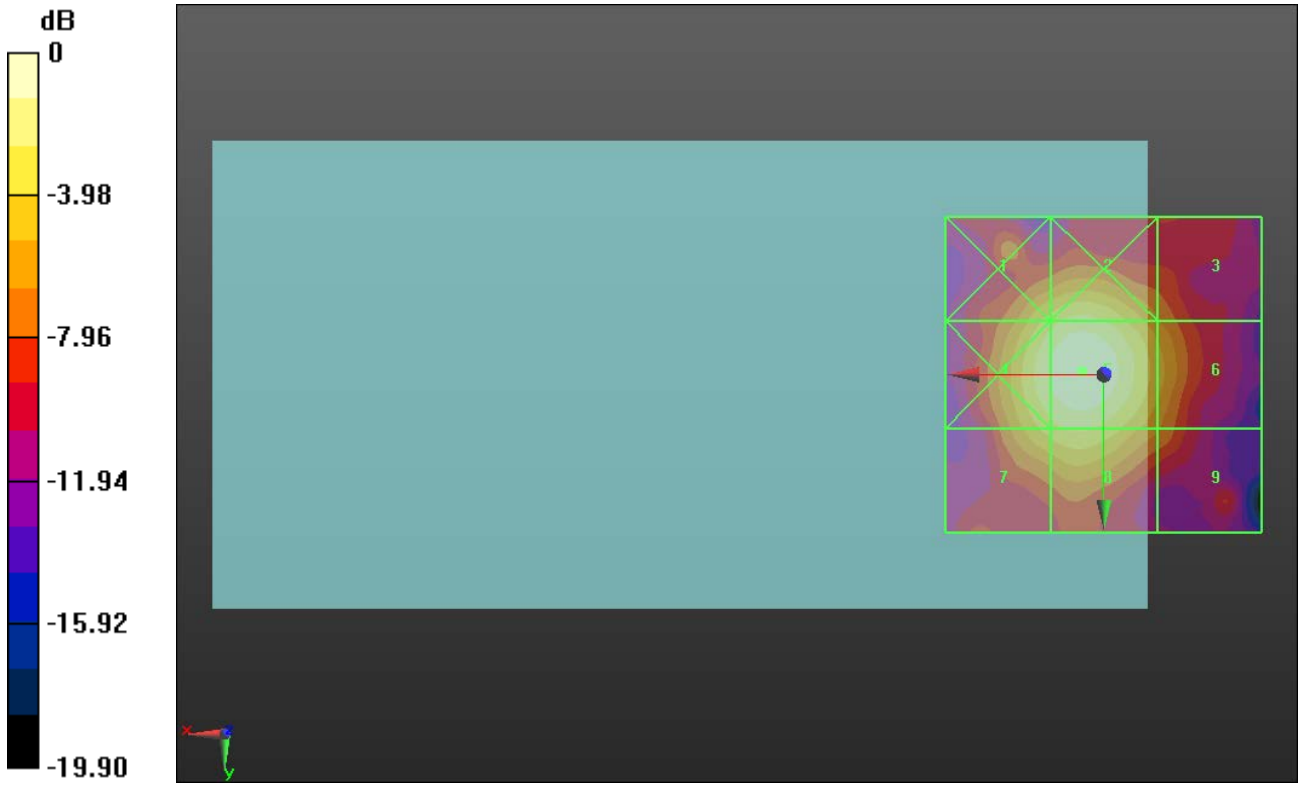
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 = 13.10 V/m; Power Drift = -0.00 dB
Applied MIF = 3.63 dB
RF audio interference level = 20.11 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **16.79 dBV/m**	Grid 2 **M4** **18.05 dBV/m**	Grid 3 **M4** **13.72 dBV/m**
Grid 4 **M4** **18.87 dBV/m**	Grid 5 **M4** **20.11 dBV/m**	Grid 6 **M4** **15.49 dBV/m**
Grid 7 **M4** **16.83 dBV/m**	Grid 8 **M4** **17.68 dBV/m**	Grid 9 **M4** **13.67 dBV/m**



0 dB = 10.13 V/m = 20.11 dBV/m

HAC-RF Emission

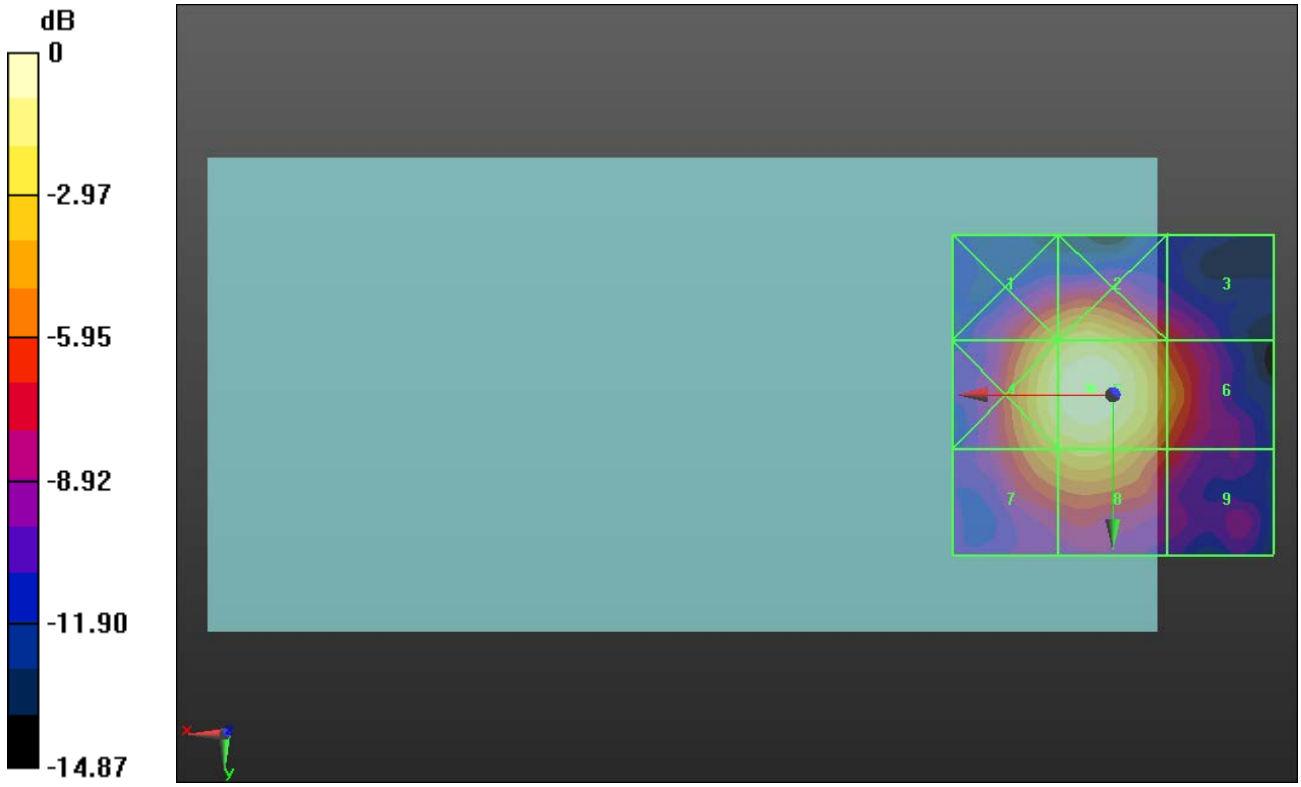
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- Phantom: 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 = 13.36 V/m; Power Drift = -0.10 dB
Applied MIF = 3.63 dB
RF audio interference level = 20.16 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **17.06 dBV/m**	Grid 2 **M4** **18.15 dBV/m**	Grid 3 **M4** **13.58 dBV/m**
Grid 4 **M4** **19.05 dBV/m**	Grid 5 **M4** **20.16 dBV/m**	Grid 6 **M4** **15.92 dBV/m**
Grid 7 **M4** **16.92 dBV/m**	Grid 8 **M4** **17.74 dBV/m**	Grid 9 **M4** **13.56 dBV/m**



0 dB = 10.18 V/m = 20.15 dBV/m

HAC-RF Emission

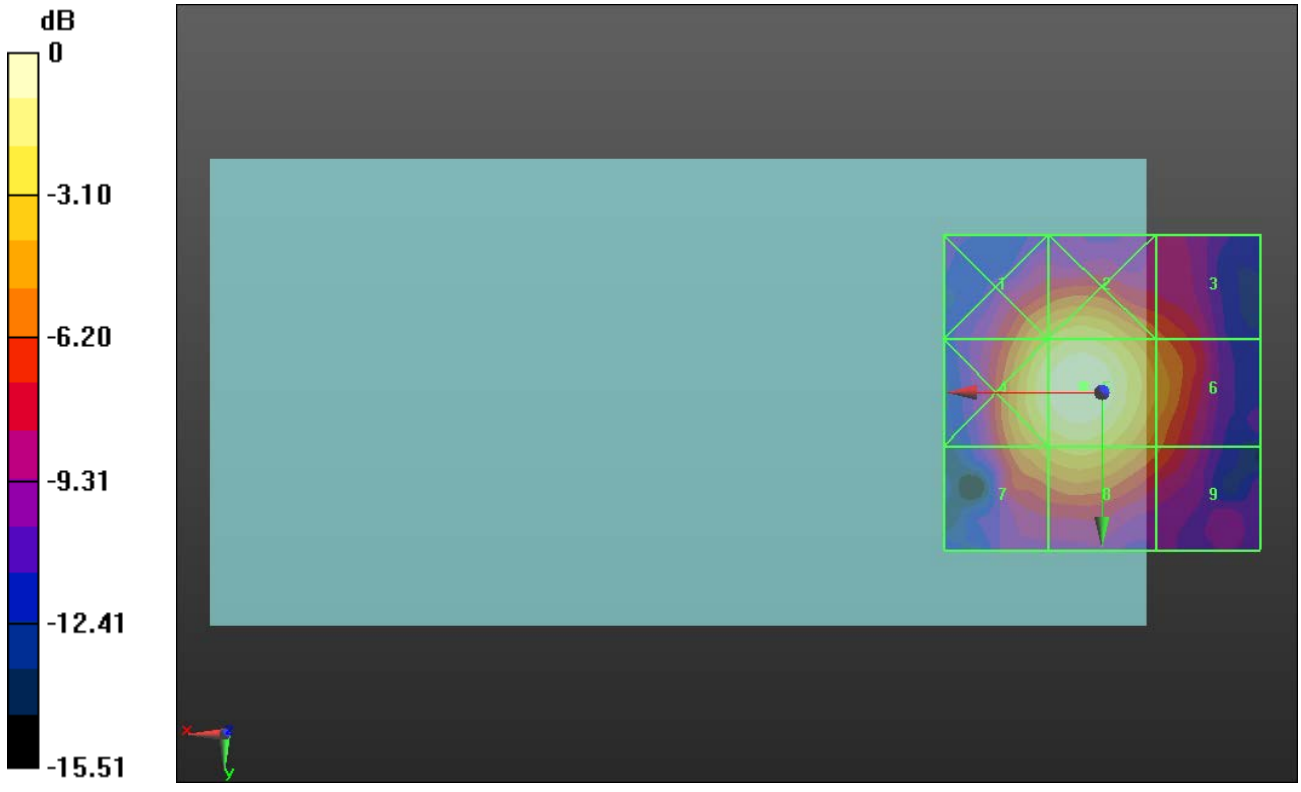
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 = 13.15 V/m; Power Drift = -0.01 dB
Applied MIF = 3.63 dB
RF audio interference level = 20.23 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **17.18 dBV/m**	Grid 2 **M4** **18.26 dBV/m**	Grid 3 **M4** **14.68 dBV/m**
Grid 4 **M4** **19.17 dBV/m**	Grid 5 **M4** **20.23 dBV/m**	Grid 6 **M4** **16.2 dBV/m**
Grid 7 **M4** **17.01 dBV/m**	Grid 8 **M4** **17.79 dBV/m**	Grid 9 **M4** **14.5 dBV/m**



0 dB = 10.27 V/m = 20.23 dBV/m

HAC-RF Emission

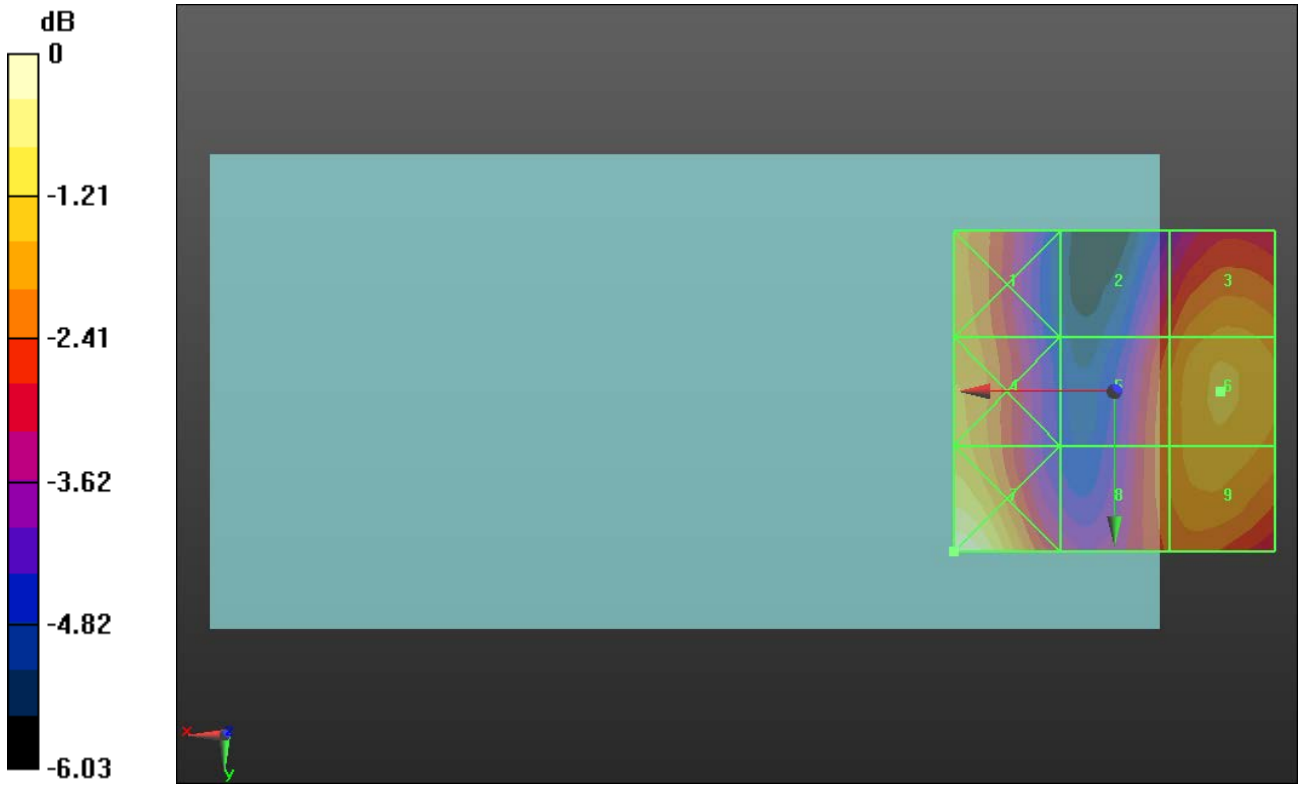
Communication System: UID 10173 - CAC, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2580 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 TDD Band 38 E-Field measurement/16QAM RB 1/0 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 = 10.09 V/m; Power Drift = 0.20 dB
Applied MIF = -1.44 dB
RF audio interference level = 20.70 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **20.07 dBV/m**	Grid 2 **M4** **19.38 dBV/m**	Grid 3 **M4** **20.35 dBV/m**
Grid 4 **M4** **20.41 dBV/m**	Grid 5 **M4** **19.9 dBV/m**	Grid 6 **M4** **20.7 dBV/m**
Grid 7 **M4** **21.83 dBV/m**	Grid 8 **M4** **19.89 dBV/m**	Grid 9 **M4** **20.53 dBV/m**



0 dB = 12.34 V/m = 21.83 dBV/m

HAC-RF Emission

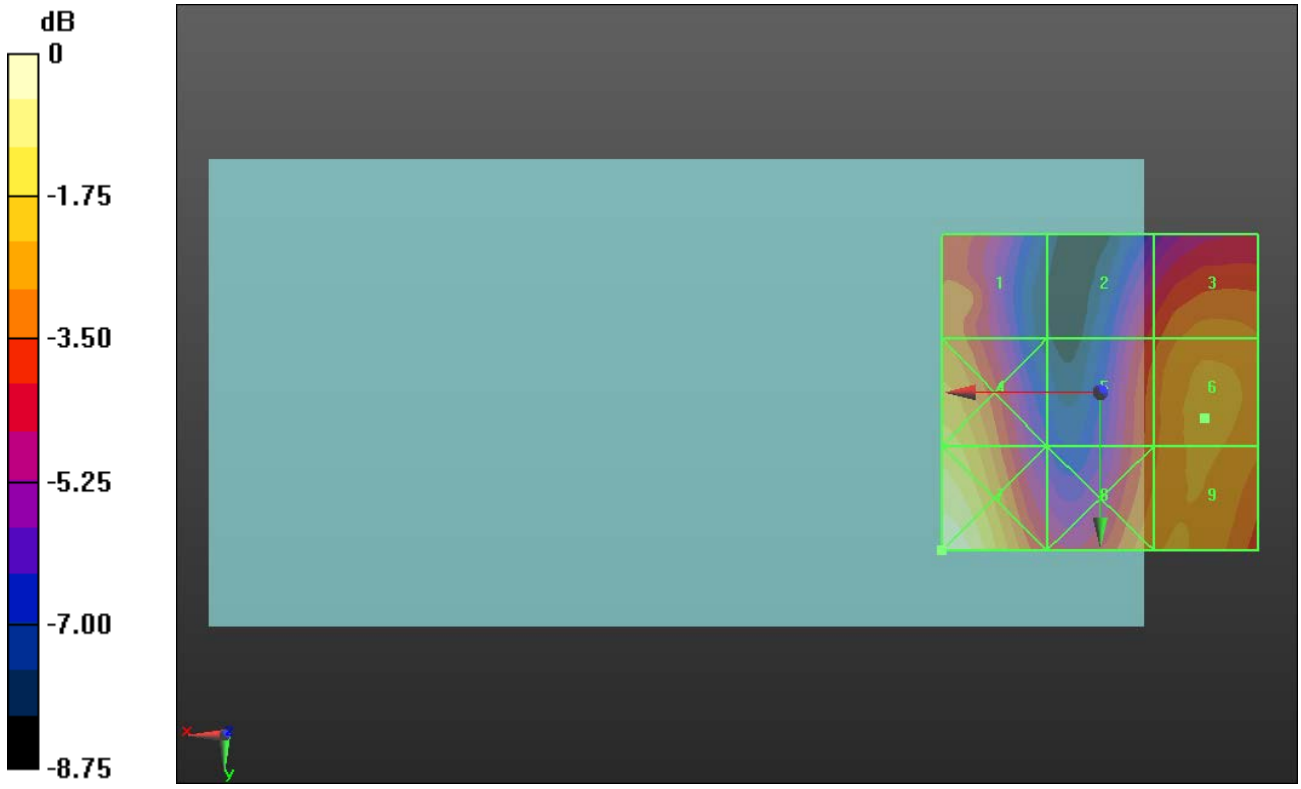
Communication System: UID 10173 - CAC, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2595 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 TDD Band 38 E-Field measurement/16QAM RB 1/0 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 = 8.088 V/m; Power Drift = 0.28 dB
Applied MIF = -1.44 dB
RF audio interference level = 19.91 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **19.14 dBV/m**	Grid 2 **M4** **18.31 dBV/m**	Grid 3 **M4** **19.46 dBV/m**
Grid 4 **M4** **20.61 dBV/m**	Grid 5 **M4** **18.98 dBV/m**	Grid 6 **M4** **19.91 dBV/m**
Grid 7 **M4** **22.04 dBV/m**	Grid 8 **M4** **19.62 dBV/m**	Grid 9 **M4** **19.82 dBV/m**



0 dB = 12.65 V/m = 22.04 dBV/m

HAC-RF Emission

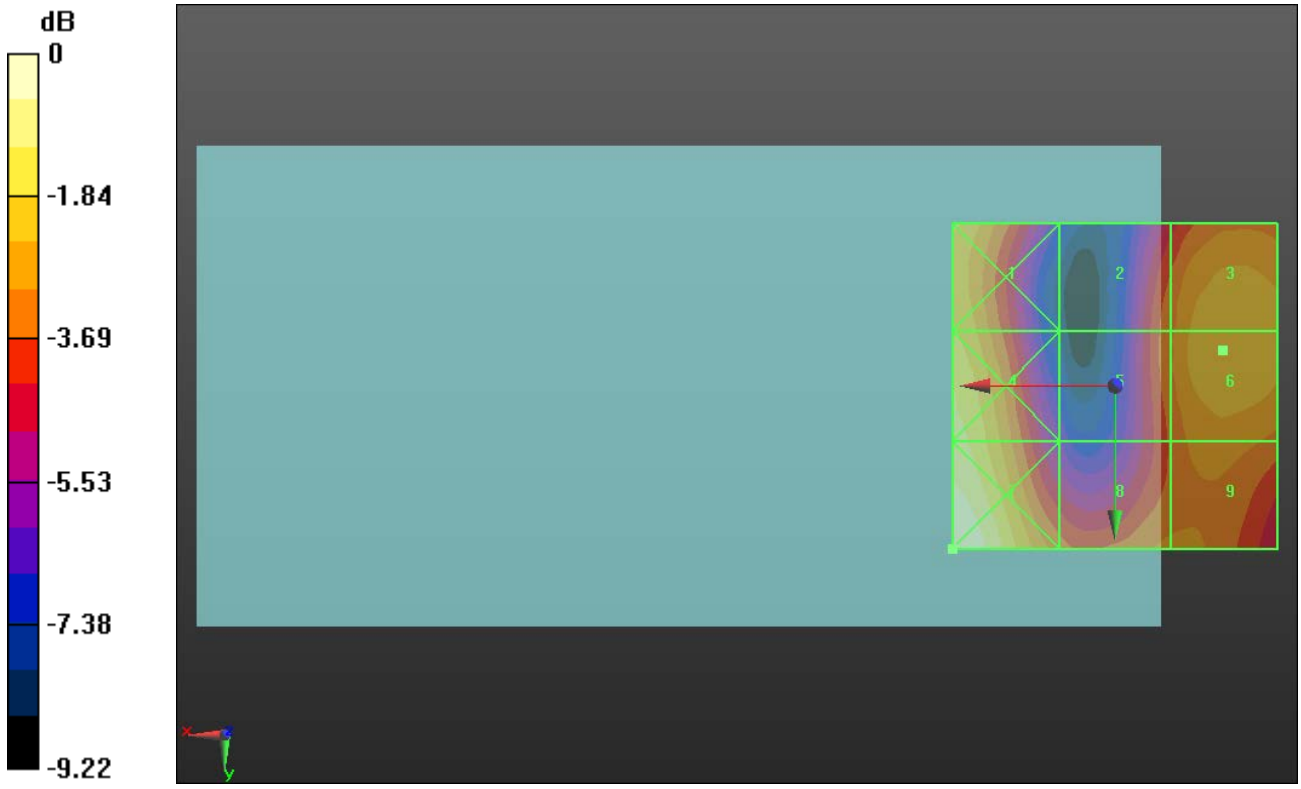
Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2610.9 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 TDD Band 38 E-Field measurement/16QAM RB 1/0 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 = 8.235 V/m; Power Drift = -0.81 dB
Applied MIF = -1.44 dB
RF audio interference level = 19.25 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **19.43 dBV/m**	Grid 2 **M4** **17.92 dBV/m**	Grid 3 **M4** **19.21 dBV/m**
Grid 4 **M4** **20.18 dBV/m**	Grid 5 **M4** **17.99 dBV/m**	Grid 6 **M4** **19.25 dBV/m**
Grid 7 **M4** **21.12 dBV/m**	Grid 8 **M4** **18.28 dBV/m**	Grid 9 **M4** **18.4 dBV/m**



0 dB = 11.37 V/m = 21.12 dBV/m

HAC-RF Emission

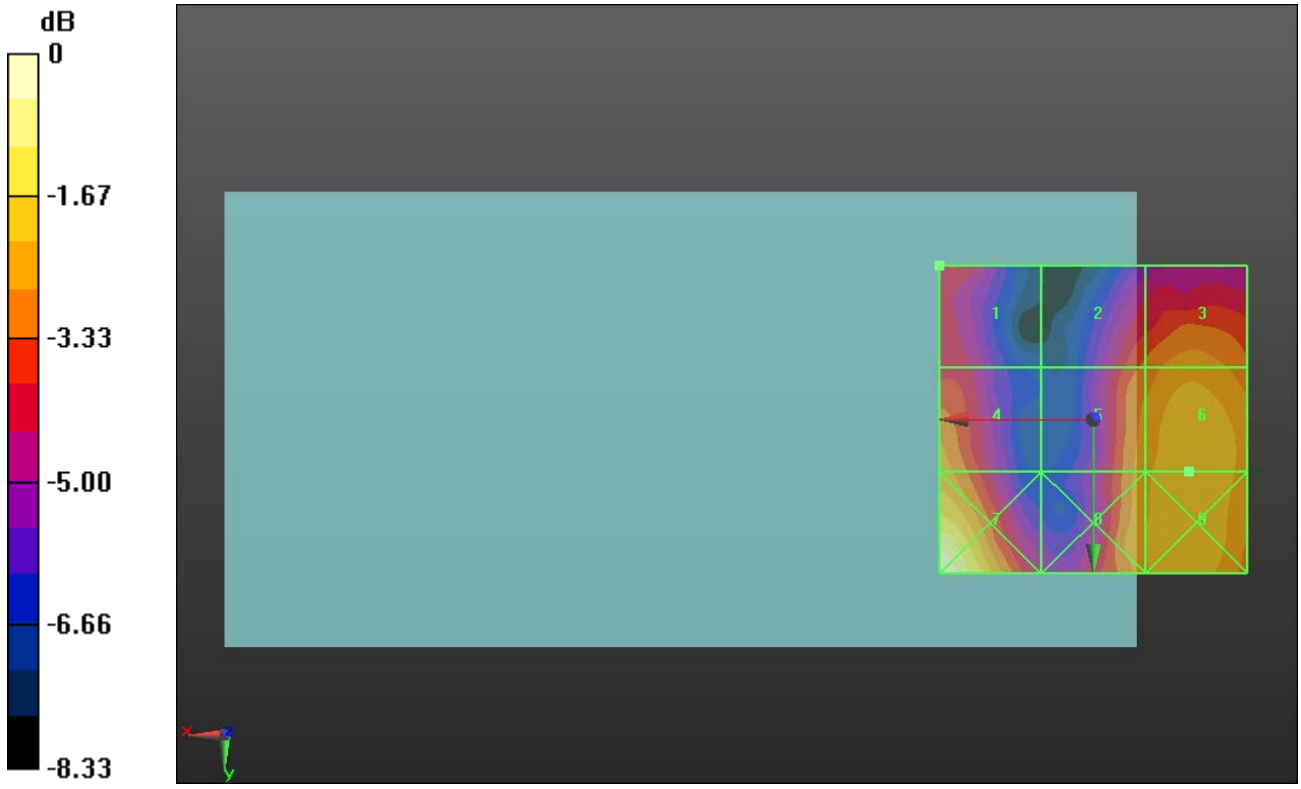
Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2506 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 TDD Band 41 E-Field measurement/16QAM RB 1/0 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 = 9.480 V/m; Power Drift = -0.09 dB
Applied MIF = -1.44 dB
RF audio interference level = 20.17 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **18.13 dBV/m**	Grid 2 **M4** **18.77 dBV/m**	Grid 3 **M4** **19.48 dBV/m**
Grid 4 **M4** **19.45 dBV/m**	Grid 5 **M4** **19.53 dBV/m**	Grid 6 **M4** **20.17 dBV/m**
Grid 7 **M4** **21.92 dBV/m**	Grid 8 **M4** **19.72 dBV/m**	Grid 9 **M4** **20.23 dBV/m**



0 dB = 12.47 V/m = 21.92 dBV/m

HAC-RF Emission

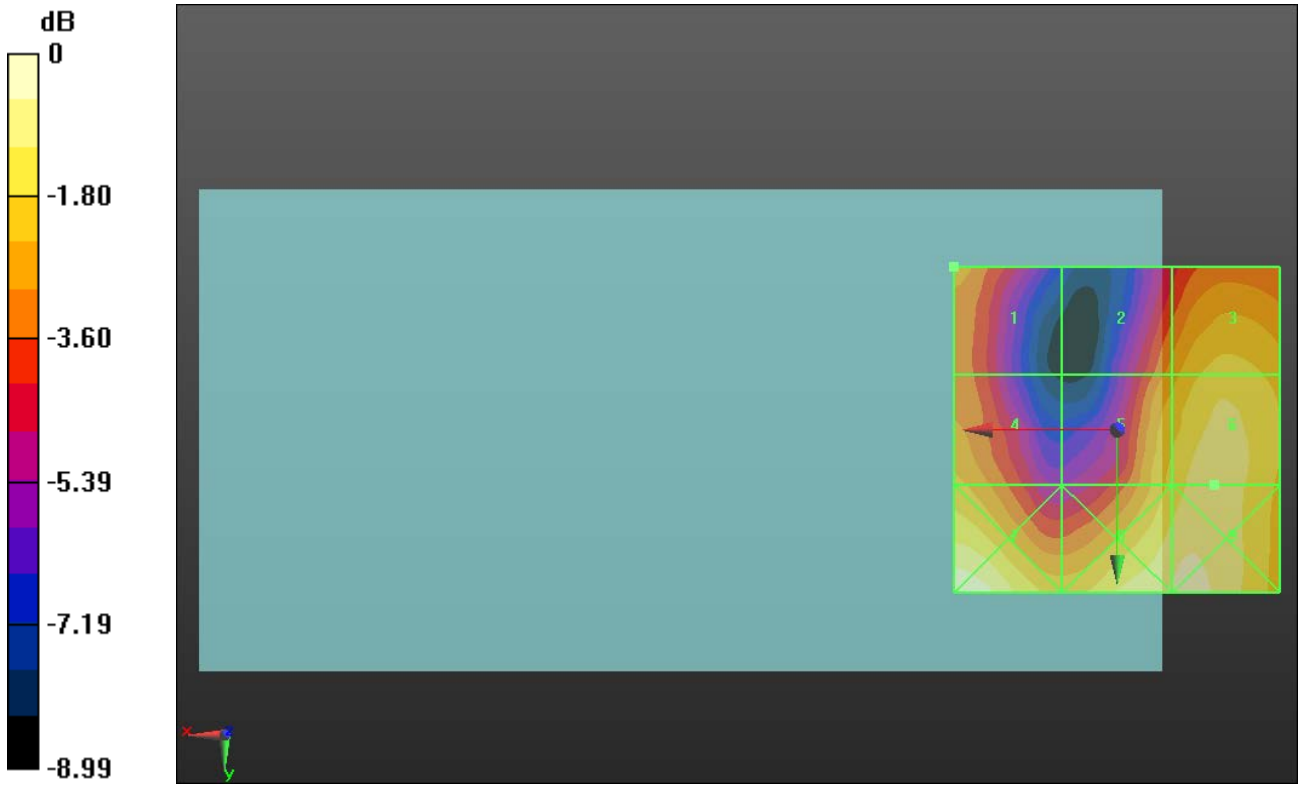
Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2549.5 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 TDD Band 41 E-Field measurement/16QAM RB 1/0 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 = 8.610 V/m; Power Drift = -0.07 dB
Applied MIF = -1.44 dB
RF audio interference level = 20.60 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **18.89 dBV/m**	Grid 2 **M4** **18.85 dBV/m**	Grid 3 **M4** **19.99 dBV/m**
Grid 4 **M4** **19.33 dBV/m**	Grid 5 **M4** **19.95 dBV/m**	Grid 6 **M4** **20.6 dBV/m**
Grid 7 **M4** **21.49 dBV/m**	Grid 8 **M4** **20.97 dBV/m**	Grid 9 **M4** **21 dBV/m**



0 dB = 11.87 V/m = 21.49 dBV/m

HAC-RF Emission

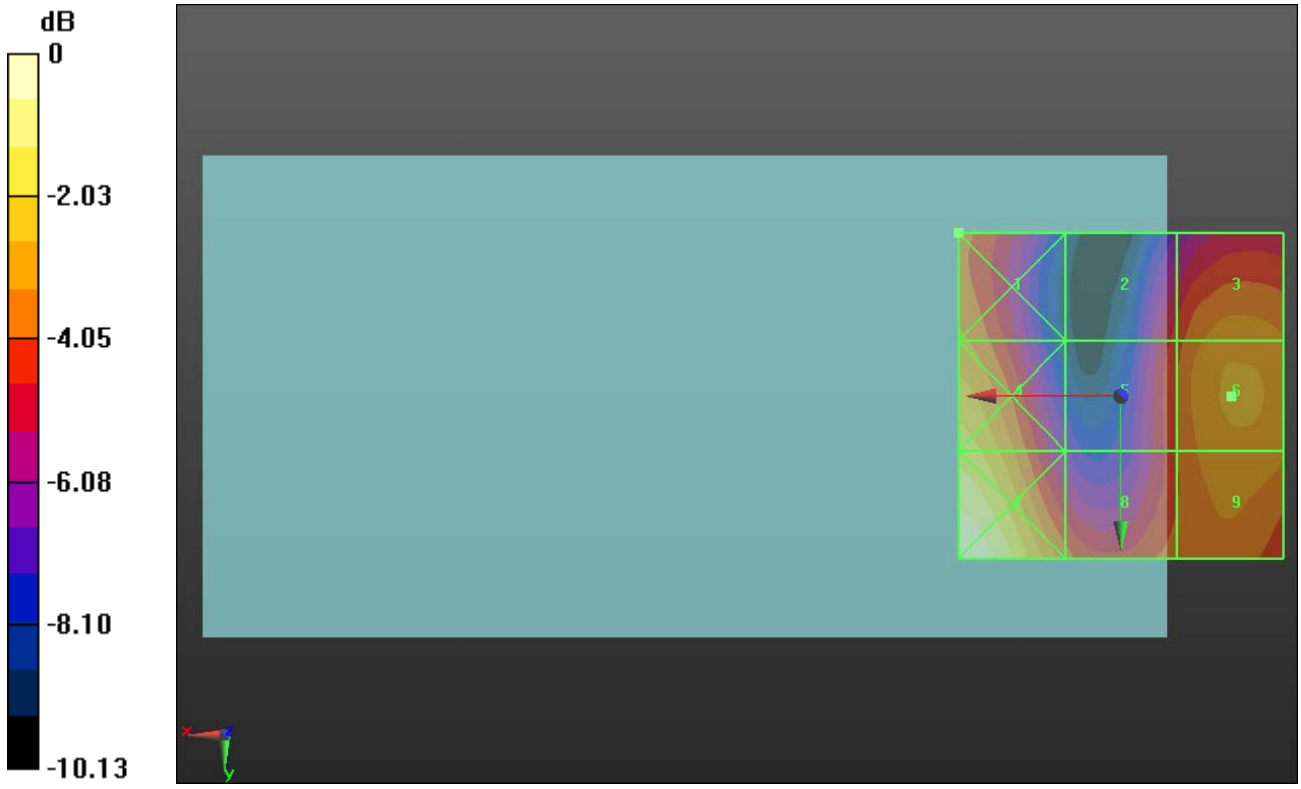
Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2593 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 TDD Band 41 E-Field measurement/16QAM RB 1/0 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 = 6.967 V/m; Power Drift = -0.05 dB
Applied MIF = -1.44 dB
RF audio interference level = 19.64 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **19.01 dBV/m**	Grid 2 **M4** **17.83 dBV/m**	Grid 3 **M4** **19.28 dBV/m**
Grid 4 **M4** **20.62 dBV/m**	Grid 5 **M4** **18.22 dBV/m**	Grid 6 **M4** **19.64 dBV/m**
Grid 7 **M4** **22.22 dBV/m**	Grid 8 **M4** **18.59 dBV/m**	Grid 9 **M4** **19.33 dBV/m**



0 dB = 12.92 V/m = 22.23 dBV/m

HAC-RF Emission

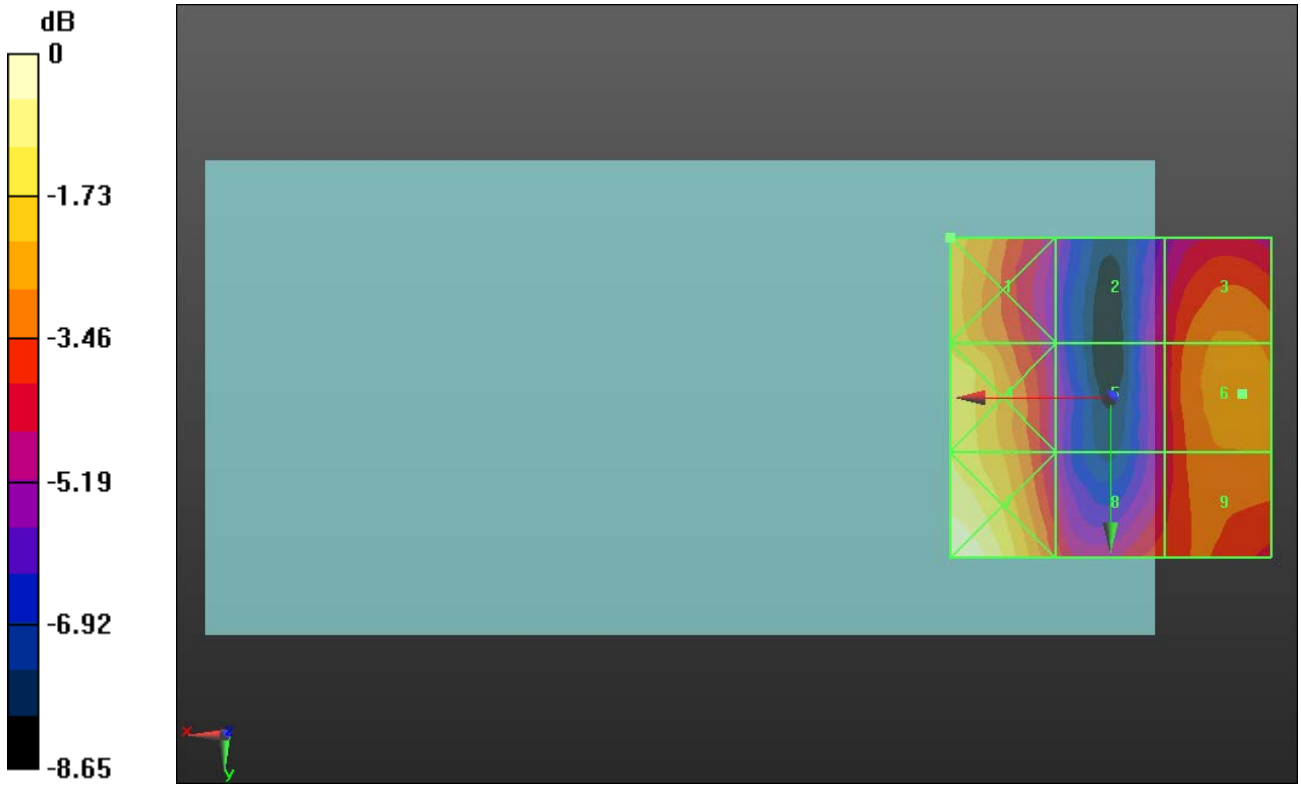
Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2636.5 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 TDD Band 41 E-Field measurement/16QAM RB 1/0 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 = 5.247 V/m; Power Drift = 0.31 dB
Applied MIF = -1.44 dB
RF audio interference level = 18.23 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **19.02 dBV/m**	Grid 2 **M4** **16.33 dBV/m**	Grid 3 **M4** **18.02 dBV/m**
Grid 4 **M4** **19.58 dBV/m**	Grid 5 **M4** **16.41 dBV/m**	Grid 6 **M4** **18.23 dBV/m**
Grid 7 **M4** **20.77 dBV/m**	Grid 8 **M4** **17.22 dBV/m**	Grid 9 **M4** **17.91 dBV/m**



0 dB = 10.93 V/m = 20.77 dBV/m

HAC-RF Emission

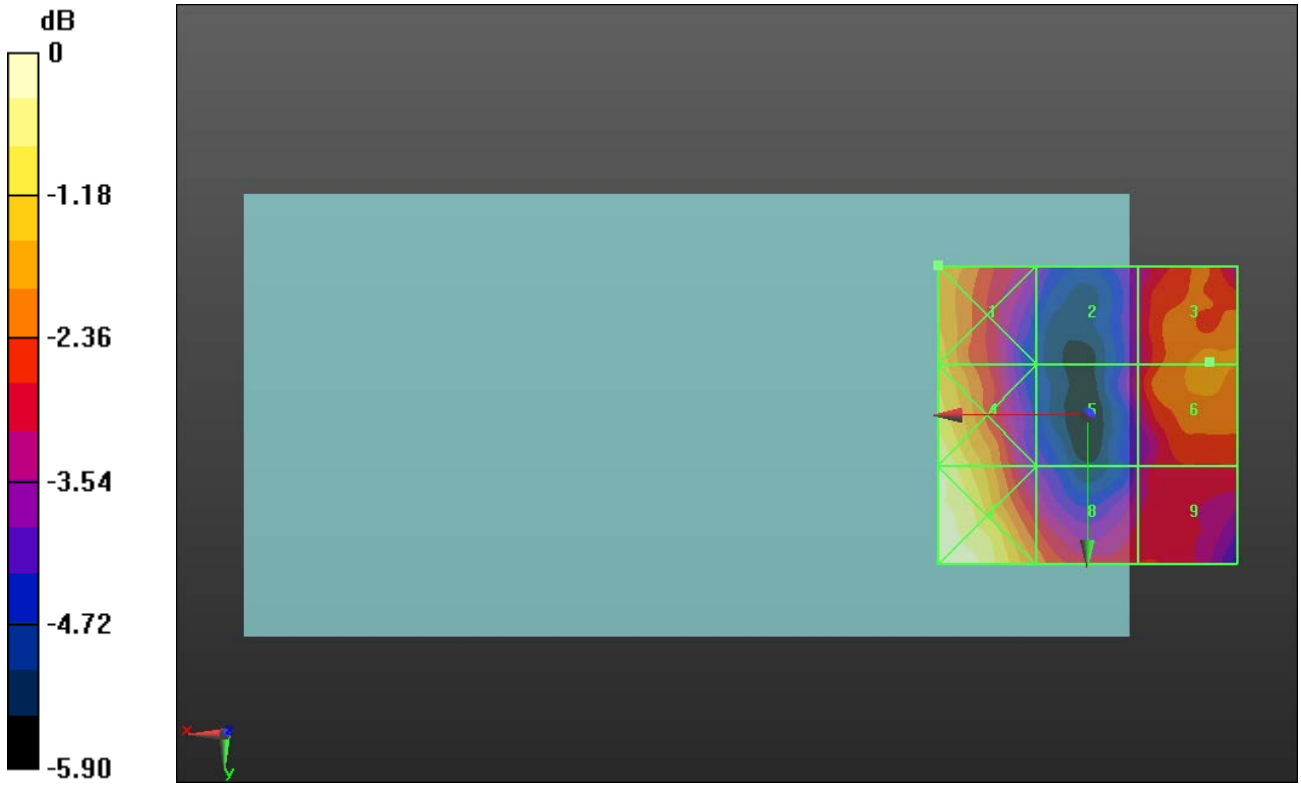
Communication System: UID 10173 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2680 MHz; Duty Cycle: 1:8.87156
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/12/2017;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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 TDD Band 41 E-Field measurement/16QAM RB 1/0 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 = 4.439 V/m; Power Drift = 0.83 dB
Applied MIF = -1.44 dB
RF audio interference level = 16.32 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **16.99 dBV/m**	Grid 2 **M4** **14.88 dBV/m**	Grid 3 **M4** **16.32 dBV/m**
Grid 4 **M4** **17.89 dBV/m**	Grid 5 **M4** **15.07 dBV/m**	Grid 6 **M4** **16.32 dBV/m**
Grid 7 **M4** **18.18 dBV/m**	Grid 8 **M4** **16.19 dBV/m**	Grid 9 **M4** **15.48 dBV/m**



0 dB = 8.110 V/m = 18.18 dBV/m