HAC-RF Emission

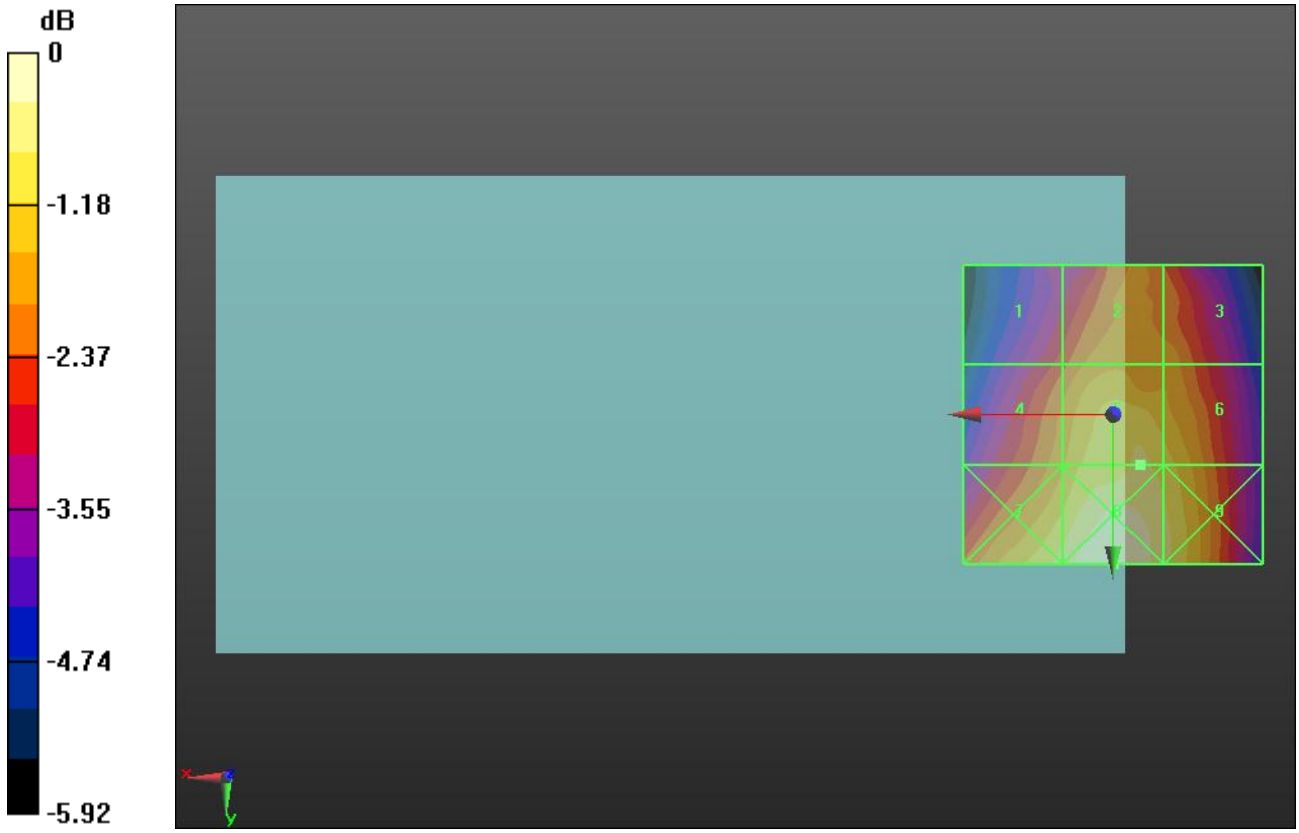
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2540; ConvF(1, 1, 1); Calibrated: 7/15/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1359; Calibrated: 2/17/2014
- 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 = 37.74 V/m; Power Drift = -0.01 dB
Applied MIF = 3.63 dB
RF audio interference level = 33.32 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **31.53 dBV/m**	Grid 2 **M4** **32.4 dBV/m**	Grid 3 **M4** **32.32 dBV/m**
Grid 4 **M4** **32.42 dBV/m**	Grid 5 **M4** **33.32 dBV/m**	Grid 6 **M4** **33.09 dBV/m**
Grid 7 **M4** **33.42 dBV/m**	Grid 8 **M4** **34.04 dBV/m**	Grid 9 **M4** **33.41 dBV/m**



0 dB = 50.38 V/m = 34.05 dBV/m

HAC-RF Emission

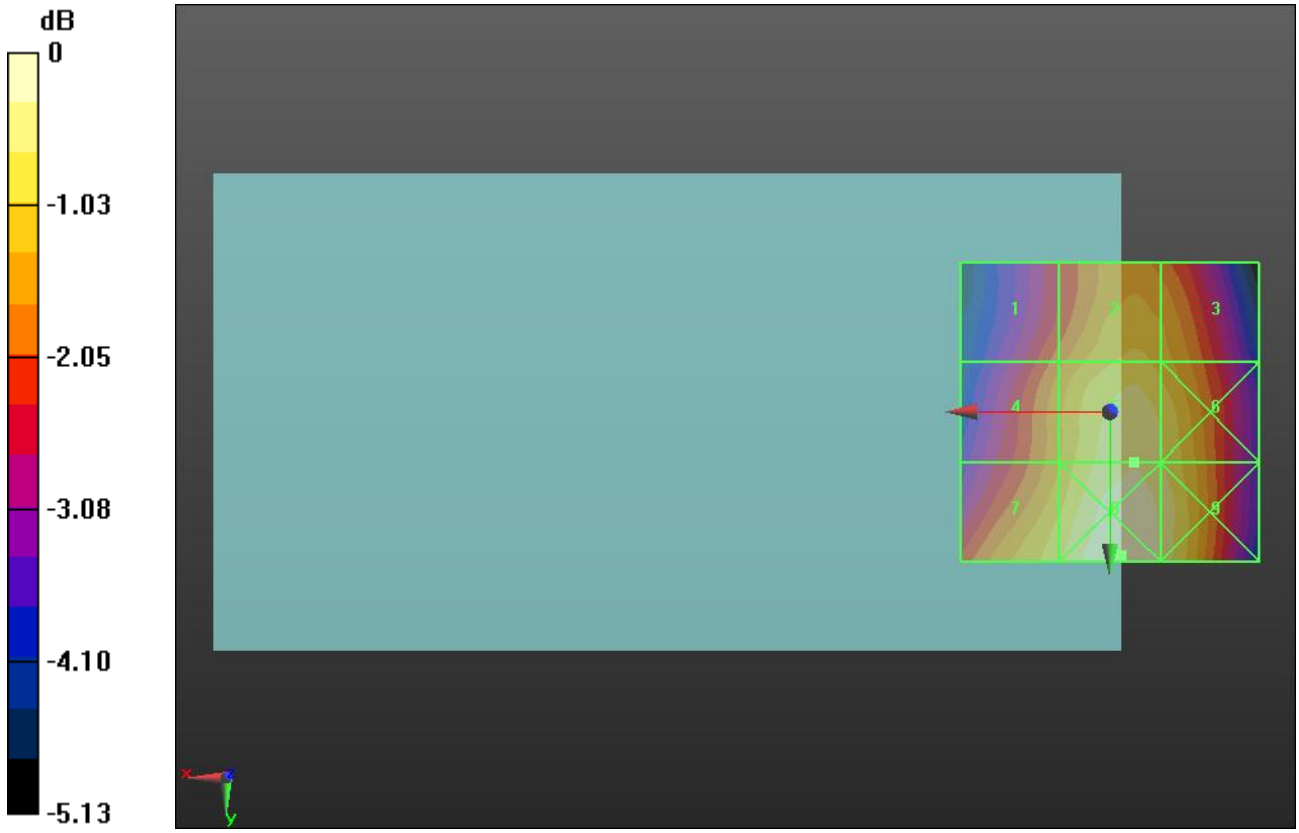
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2540; ConvF(1, 1, 1); Calibrated: 7/15/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1359; Calibrated: 2/17/2014
- 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 = 45.70 V/m; Power Drift = 0.01 dB
Applied MIF = 3.63 dB
RF audio interference level = 34.96 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **33.49 dBV/m**	Grid 2 **M4** **34.42 dBV/m**	Grid 3 **M4** **34.18 dBV/m**
Grid 4 **M4** **33.97 dBV/m**	Grid 5 **M4** **34.96 dBV/m**	Grid 6 **M4** **34.72 dBV/m**
Grid 7 **M4** **34.58 dBV/m**	Grid 8 **M4** **35.34 dBV/m**	Grid 9 **M4** **34.95 dBV/m**



0 dB = 58.45 V/m = 35.34 dBV/m

HAC-RF Emission

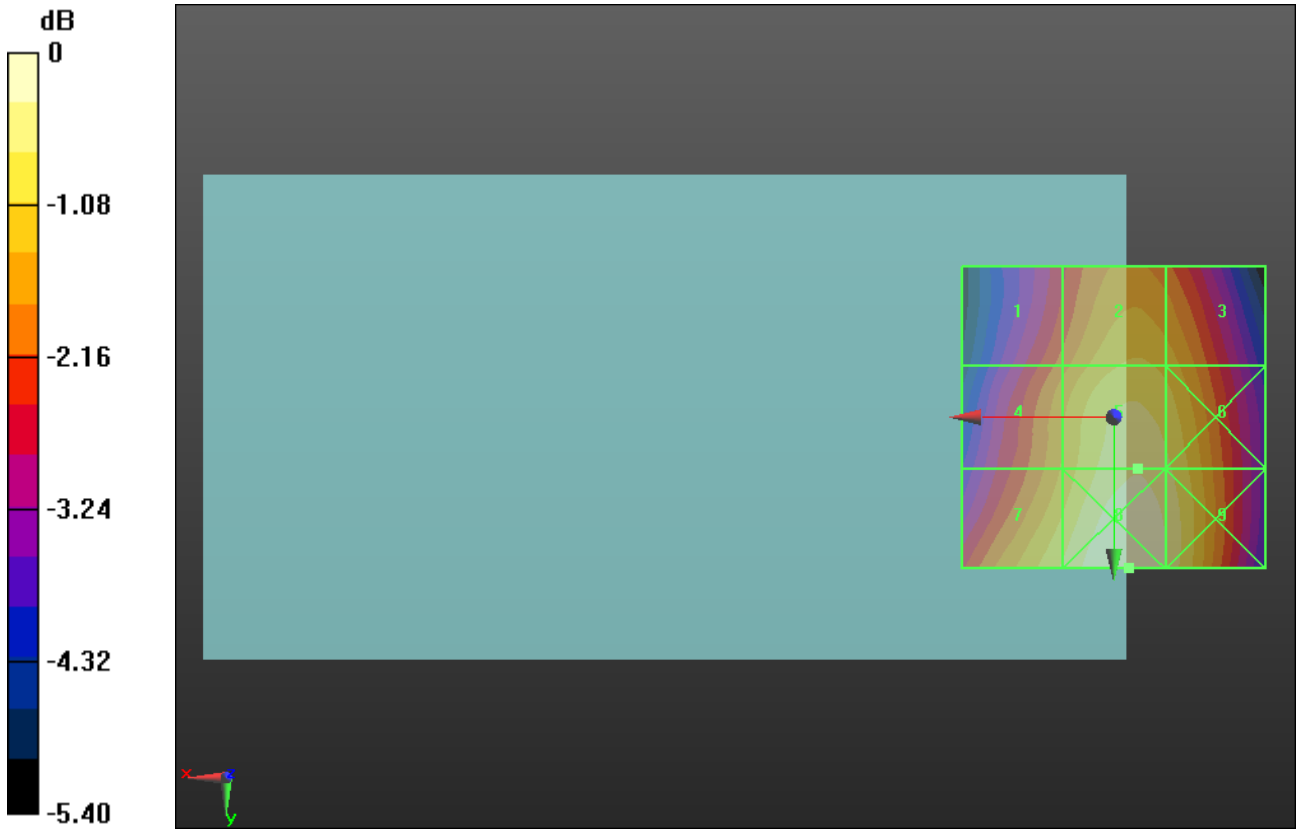
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2540; ConvF(1, 1, 1); Calibrated: 7/15/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1359; Calibrated: 2/17/2014
- 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 = 55.54 V/m; Power Drift = 0.35 dB
Applied MIF = 3.63 dB
RF audio interference level = 36.99 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **35.43 dBV/m**	Grid 2 **M4** **36.38 dBV/m**	Grid 3 **M4** **36.19 dBV/m**
Grid 4 **M4** **36 dBV/m**	Grid 5 **M4** **36.99 dBV/m**	Grid 6 **M4** **36.77 dBV/m**
Grid 7 **M4** **36.72 dBV/m**	Grid 8 **M4** **37.38 dBV/m**	Grid 9 **M4** **37.03 dBV/m**



0 dB = 74.00 V/m = 37.38 dBV/m

HAC-RF Emission

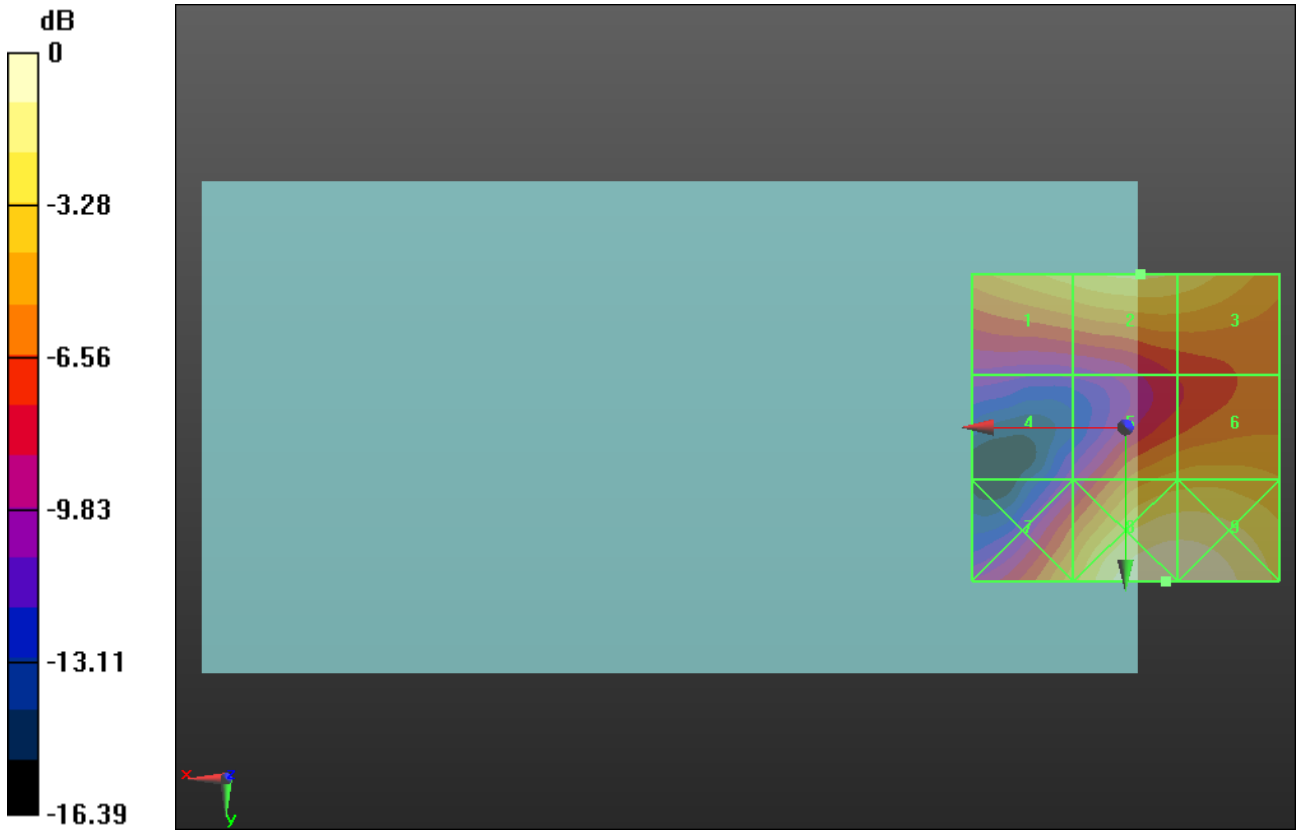
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2540; ConvF(1, 1, 1); Calibrated: 7/15/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1359; Calibrated: 2/17/2014
- 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 = 8.899 V/m; Power Drift = 0.47 dB
Applied MIF = 3.63 dB
RF audio interference level = 27.96 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **27.27 dBV/m**	Grid 2 **M4** **27.96 dBV/m**	Grid 3 **M4** **27.59 dBV/m**
Grid 4 **M4** **19.9 dBV/m**	Grid 5 **M4** **26 dBV/m**	Grid 6 **M4** **26.22 dBV/m**
Grid 7 **M4** **26.23 dBV/m**	Grid 8 **M4** **29.84 dBV/m**	Grid 9 **M4** **29.8 dBV/m**



0 dB = 31.05 V/m = 29.84 dBV/m

HAC-RF Emission

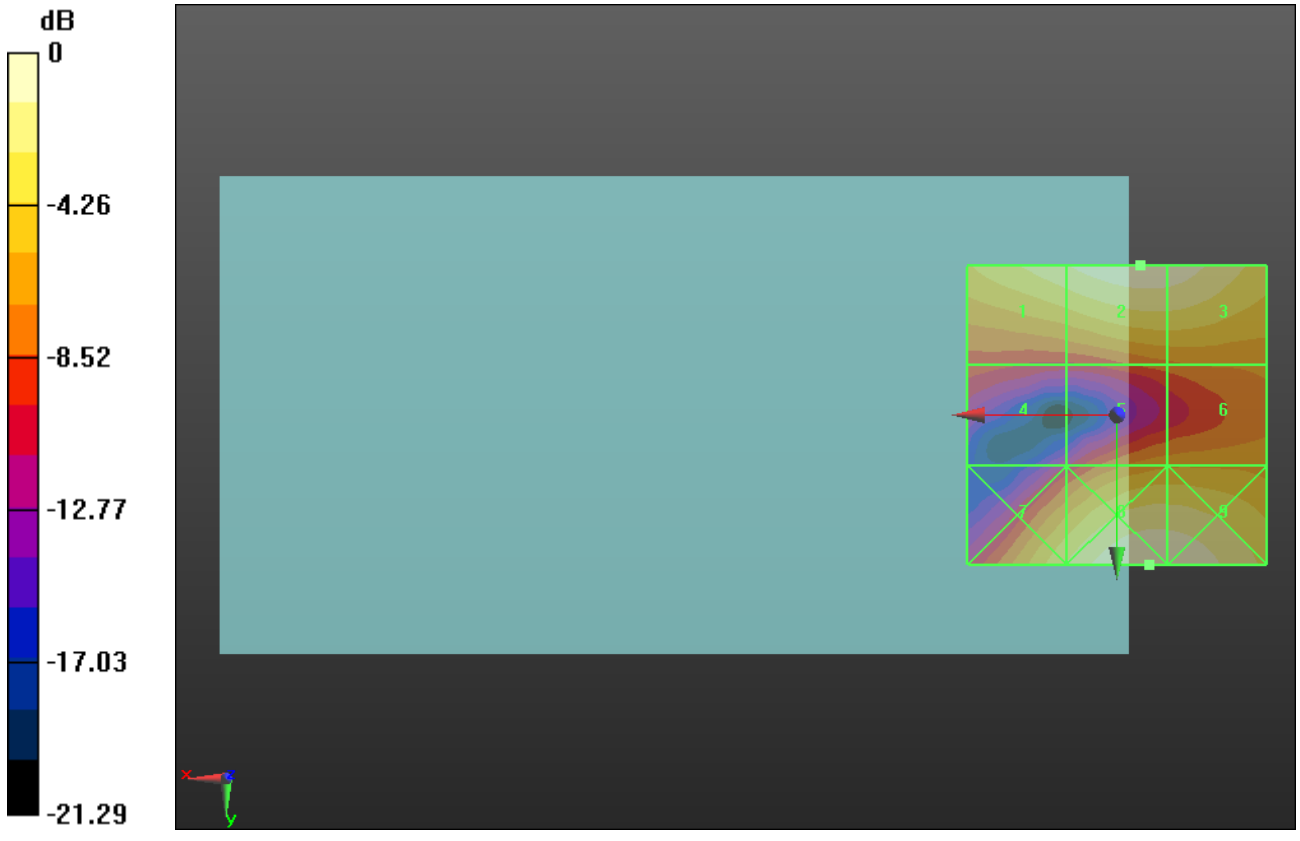
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2540; ConvF(1, 1, 1); Calibrated: 7/15/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1359; Calibrated: 2/17/2014
- 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 = 5.572 V/m; Power Drift = 0.06 dB
Applied MIF = 3.63 dB
RF audio interference level = 28.48 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **27.26 dBV/m**	Grid 2 **M4** **28.48 dBV/m**	Grid 3 **M4** **28.25 dBV/m**
Grid 4 **M4** **19.53 dBV/m**	Grid 5 **M4** **22.84 dBV/m**	Grid 6 **M4** **22.98 dBV/m**
Grid 7 **M4** **26 dBV/m**	Grid 8 **M4** **28.75 dBV/m**	Grid 9 **M4** **28.63 dBV/m**



0 dB = 27.39 V/m = 28.75 dBV/m

HAC-RF Emission

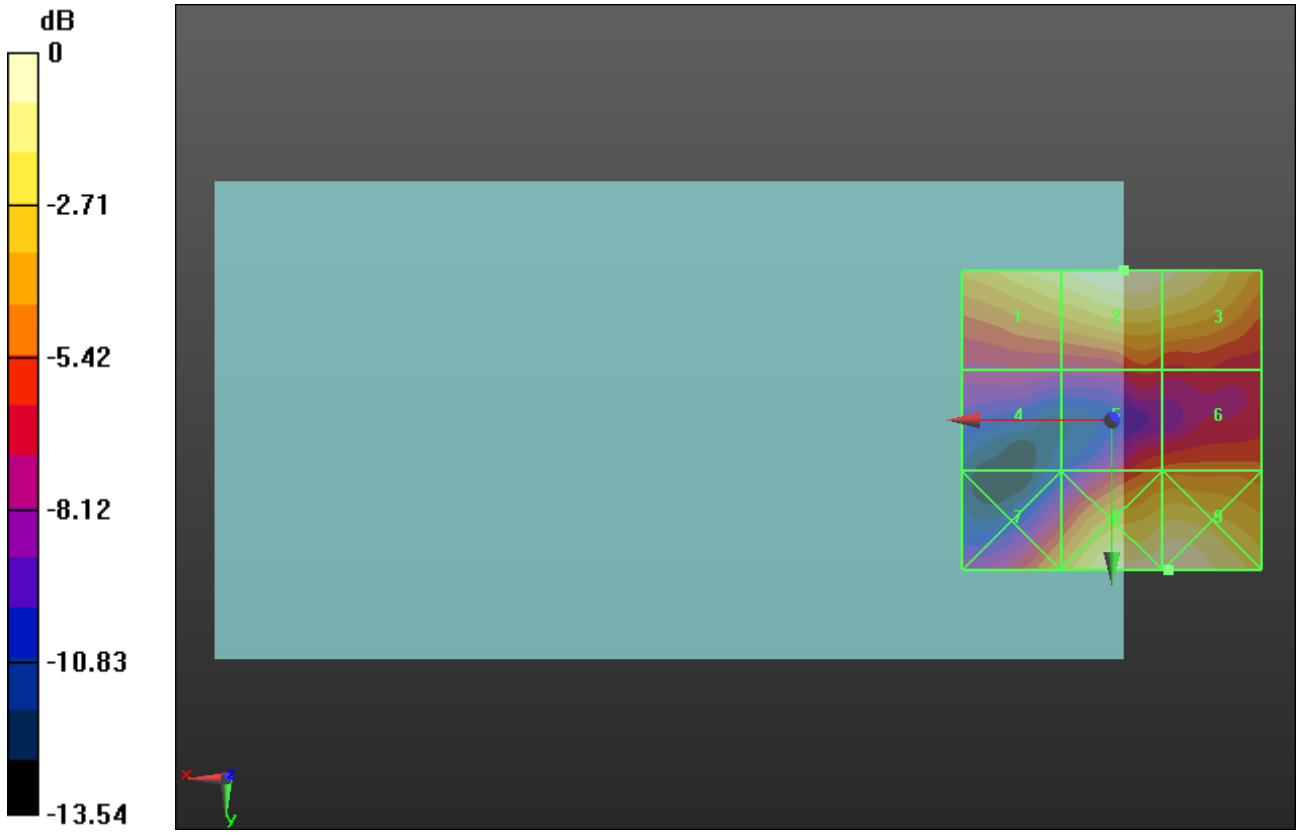
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2540; ConvF(1, 1, 1); Calibrated: 7/15/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1359; Calibrated: 2/17/2014
- 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 = 4.736 V/m; Power Drift = 1.16 dB
Applied MIF = 3.63 dB
RF audio interference level = 27.80 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **26.88 dBV/m**	Grid 2 **M4** **27.8 dBV/m**	Grid 3 **M4** **27.31 dBV/m**
Grid 4 **M4** **20.57 dBV/m**	Grid 5 **M4** **22.86 dBV/m**	Grid 6 **M4** **23.09 dBV/m**
Grid 7 **M4** **24.3 dBV/m**	Grid 8 **M4** **27.78 dBV/m**	Grid 9 **M4** **27.83 dBV/m**



0 dB = 24.64 V/m = 27.83 dBV/m