HAC-RF Emission

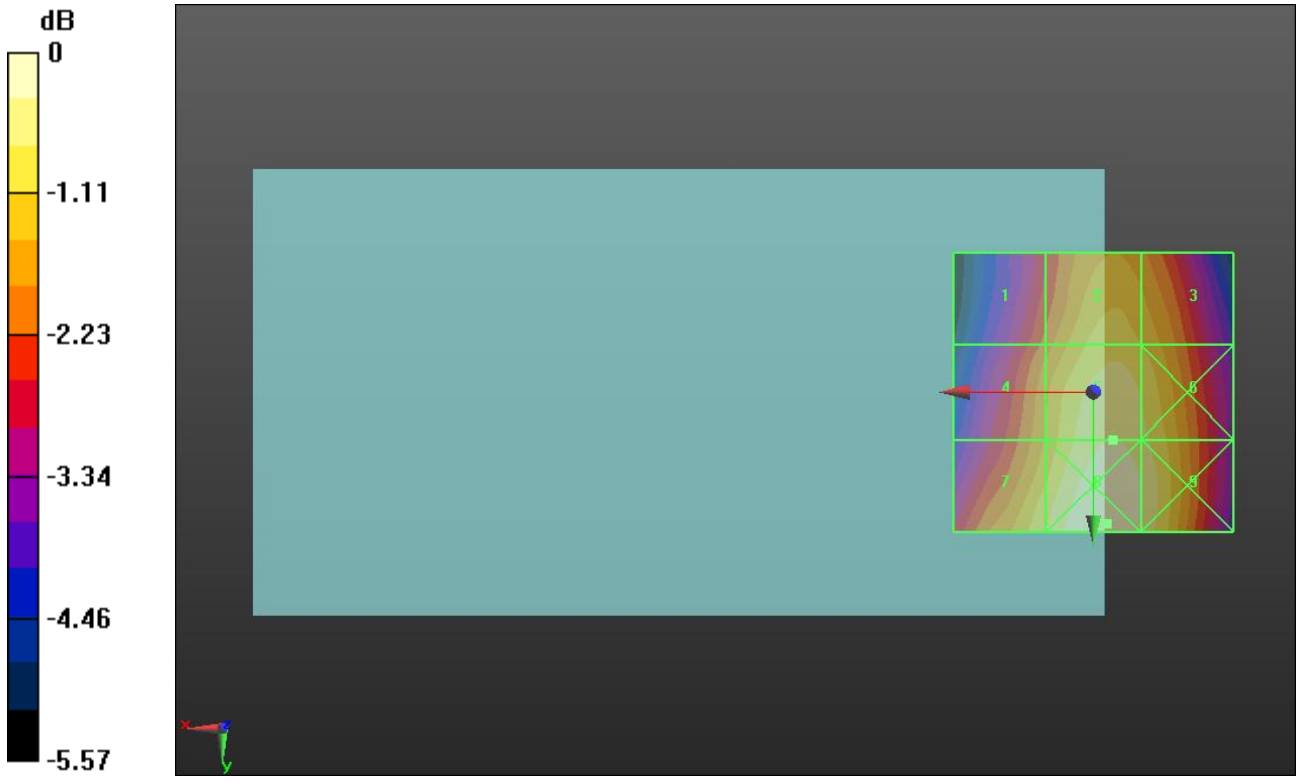
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 5/28/2013
- 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 = 51.88 V/m; Power Drift = -0.06 dB
Applied MIF = 3.63 dB
RF audio interference level = 36.05 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **34.36 dBV/m**	Grid 2 **M4** **35.51 dBV/m**	Grid 3 **M4** **35.3 dBV/m**
Grid 4 **M4** **34.98 dBV/m**	Grid 5 **M4** **36.05 dBV/m**	Grid 6 **M4** **35.81 dBV/m**
Grid 7 **M4** **35.66 dBV/m**	Grid 8 **M4** **36.4 dBV/m**	Grid 9 **M4** **36.07 dBV/m**



0 dB = 66.09 V/m = 36.40 dBV/m

Test Laboratory: UL Verification Services Inc. SAR Lab C Date: 4/2/2014

HAC-RF Emission

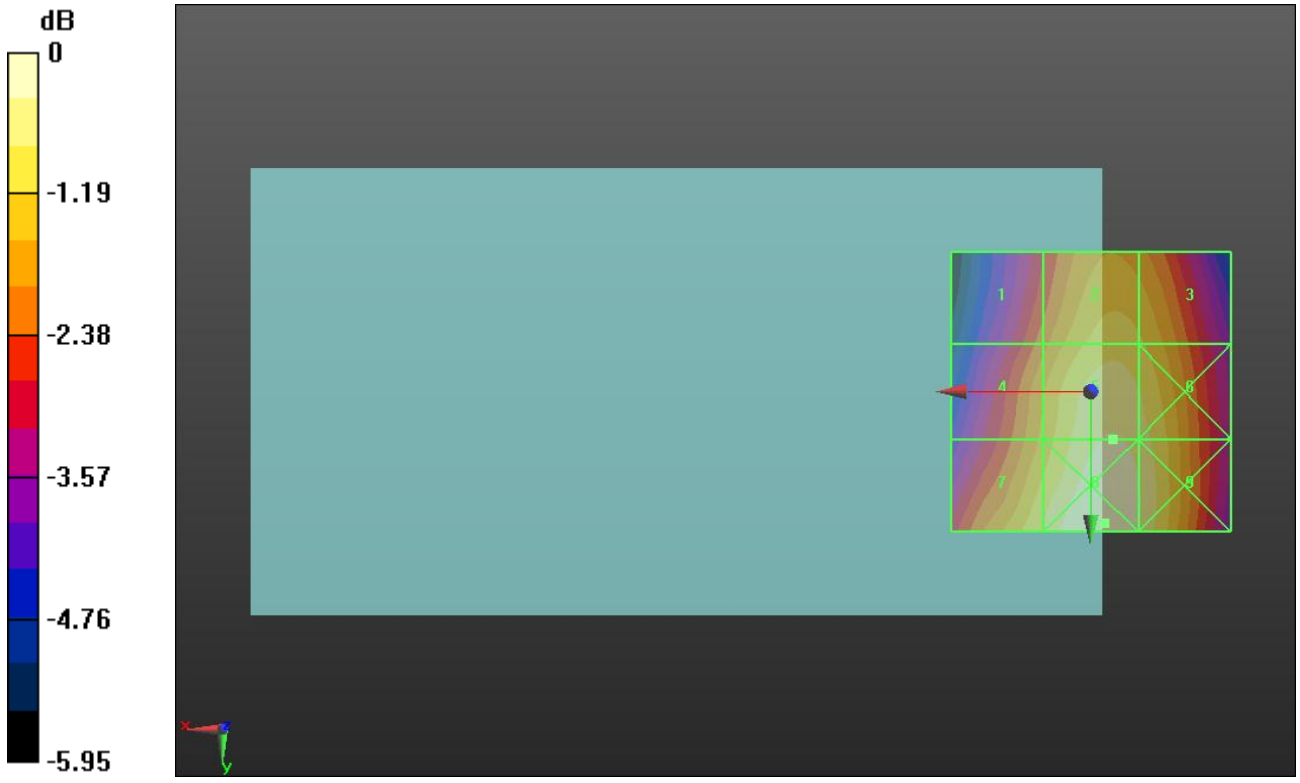
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 5/28/2013
- 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 = 53.95 V/m; Power Drift = -0.03 dB
Applied MIF = 3.63 dB
RF audio interference level = 36.46 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **34.7 dBV/m**	Grid 2 **M4** **35.88 dBV/m**	Grid 3 **M4** **35.72 dBV/m**
Grid 4 **M4** **35.36 dBV/m**	Grid 5 **M4** **36.46 dBV/m**	Grid 6 **M4** **36.25 dBV/m**
Grid 7 **M4** **36.07 dBV/m**	Grid 8 **M4** **36.81 dBV/m**	Grid 9 **M4** **36.47 dBV/m**



0 dB = 69.26 V/m = 36.81 dBV/m

HAC-RF Emission

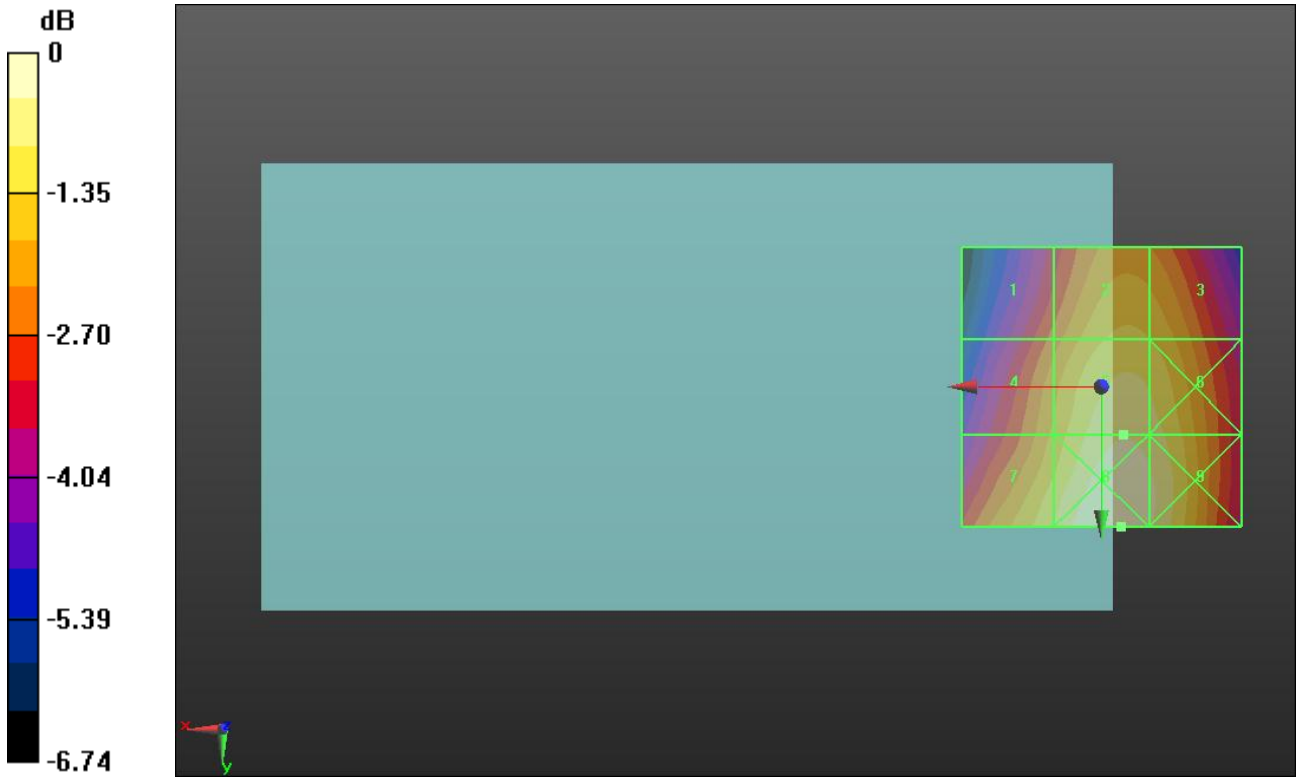
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 5/28/2013
- 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 = 49.83 V/m; Power Drift = -0.02 dB
Applied MIF = 3.63 dB
RF audio interference level = 35.88 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **33.88 dBV/m**	Grid 2 **M4** **35.15 dBV/m**	Grid 3 **M4** **35.03 dBV/m**
Grid 4 **M4** **34.69 dBV/m**	Grid 5 **M4** **35.88 dBV/m**	Grid 6 **M4** **35.72 dBV/m**
Grid 7 **M4** **35.47 dBV/m**	Grid 8 **M4** **36.36 dBV/m**	Grid 9 **M4** **36.03 dBV/m**



0 dB = 65.75 V/m = 36.36 dBV/m

Test Laboratory: UL Verification Services Inc. SAR Lab C Date: 4/2/2014

HAC-RF Emission

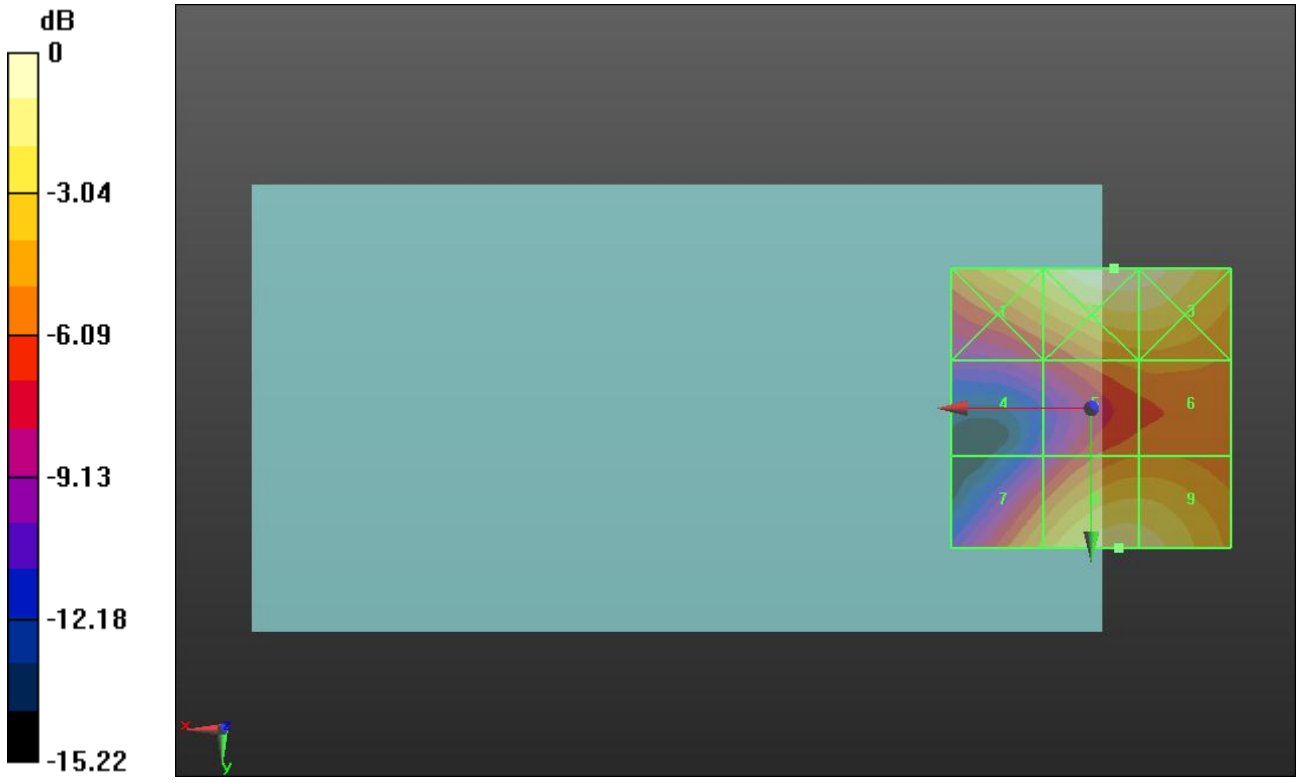
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 5/28/2013
- 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 = 8.330 V/m; Power Drift = 0.01 dB
Applied MIF = 3.63 dB
RF audio interference level = 26.37 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **26.06 dBV/m**	Grid 2 **M4** **27.6 dBV/m**	Grid 3 **M4** **27.34 dBV/m**
Grid 4 **M4** **20.01 dBV/m**	Grid 5 **M4** **22.98 dBV/m**	Grid 6 **M4** **23.07 dBV/m**
Grid 7 **M4** **24.05 dBV/m**	Grid 8 **M4** **26.37 dBV/m**	Grid 9 **M4** **26.18 dBV/m**



0 dB = 23.98 V/m = 27.60 dBV/m

Test Laboratory: UL Verification Services Inc. SAR Lab C Date: 4/2/2014

HAC-RF Emission

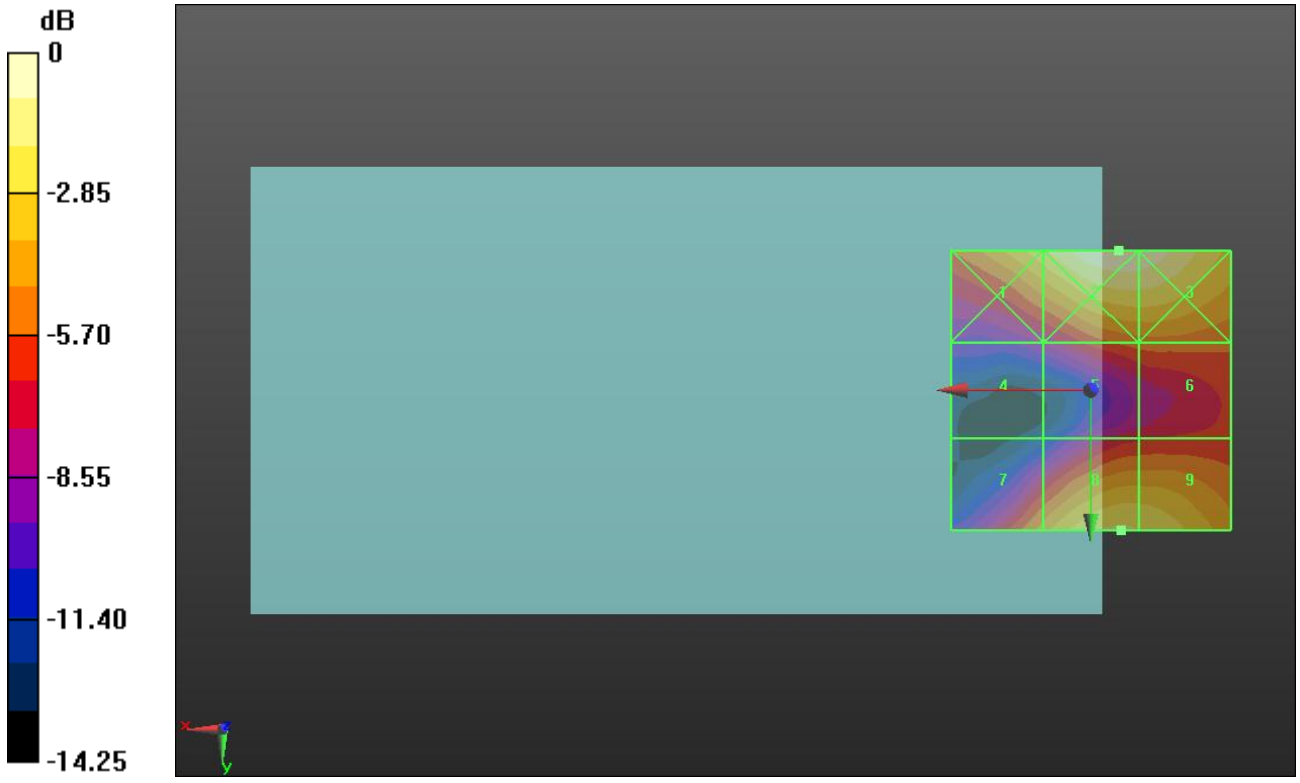
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 5/28/2013
- Phantom: 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 = 5.374 V/m; Power Drift = -0.05 dB
Applied MIF = 3.63 dB
RF audio interference level = 25.20 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **24.87 dBV/m**	Grid 2 **M4** **26.91 dBV/m**	Grid 3 **M4** **26.75 dBV/m**
Grid 4 **M4** **18.53 dBV/m**	Grid 5 **M4** **21.68 dBV/m**	Grid 6 **M4** **21.82 dBV/m**
Grid 7 **M4** **22.7 dBV/m**	Grid 8 **M4** **25.2 dBV/m**	Grid 9 **M4** **25.04 dBV/m**



0 dB = 22.15 V/m = 26.91 dBV/m

Test Laboratory: UL Verification Services Inc. SAR Lab C Date: 4/2/2014

HAC-RF Emission

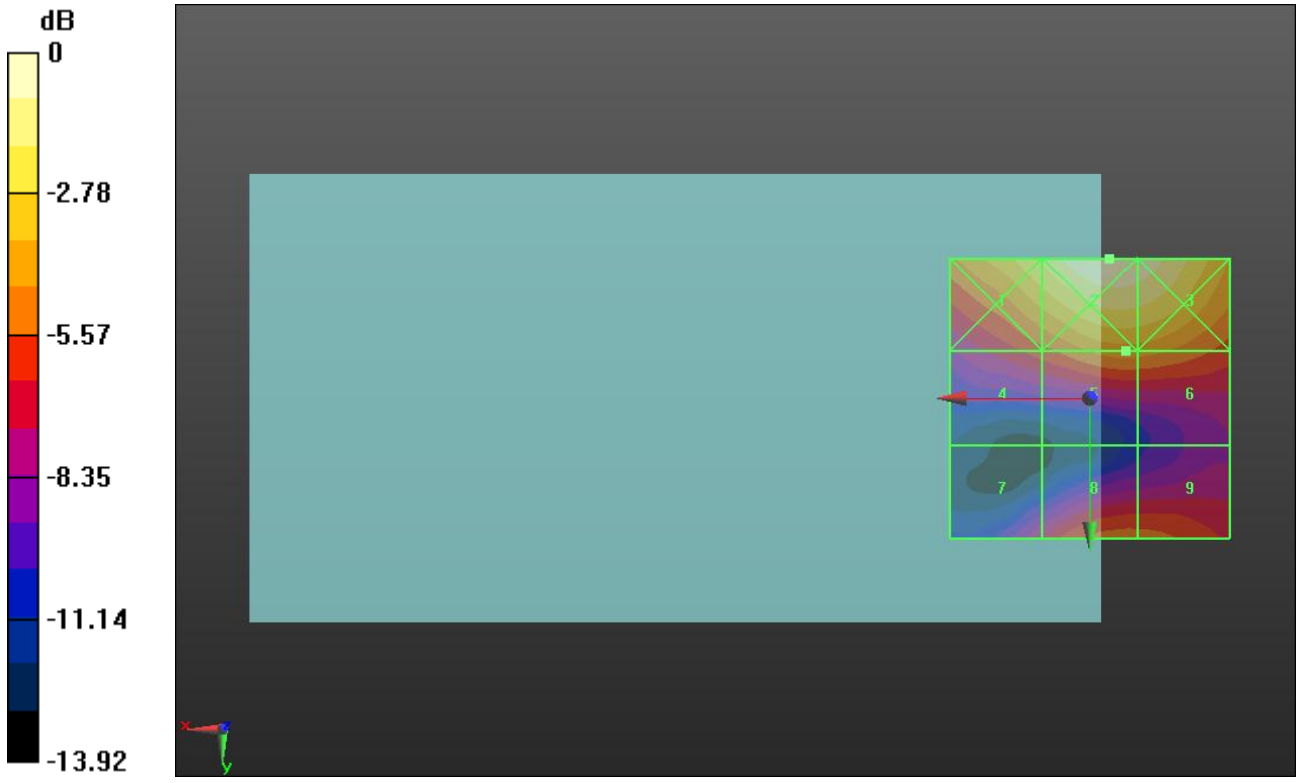
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 2/14/2014;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 5/28/2013
- 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 = 6.994 V/m; Power Drift = 0.17 dB
Applied MIF = 3.63 dB
RF audio interference level = 24.05 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **26.54 dBV/m**	Grid 2 **M4** **28.18 dBV/m**	Grid 3 **M4** **27.93 dBV/m**
Grid 4 **M4** **22.3 dBV/m**	Grid 5 **M4** **24.05 dBV/m**	Grid 6 **M4** **24 dBV/m**
Grid 7 **M4** **20.78 dBV/m**	Grid 8 **M4** **23.12 dBV/m**	Grid 9 **M4** **23.07 dBV/m**



0 dB = 25.64 V/m = 28.18 dBV/m