HAC-RF Emission

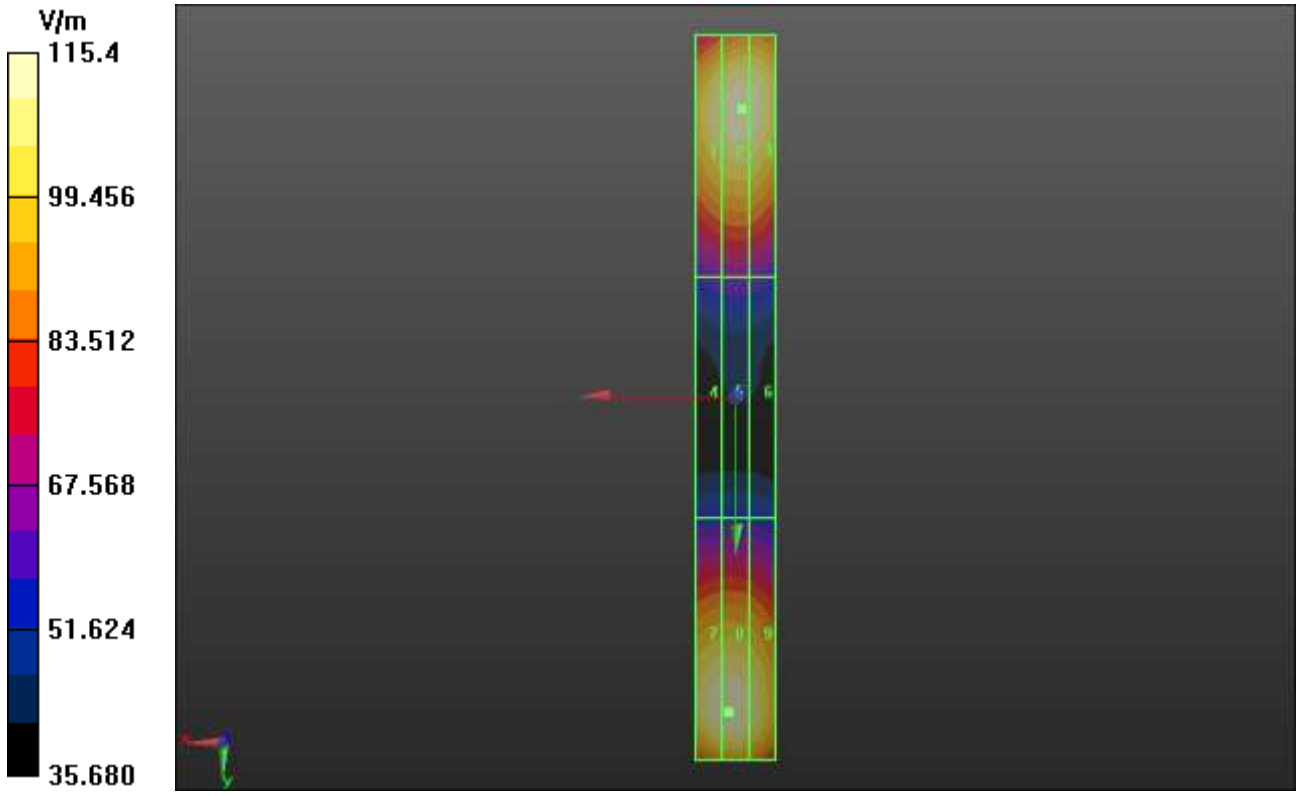
Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

Dipole E-Field measurement/835 MHz/Hearing Aid Compatibility Test at 15mm distance (41x361x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 113.7 V/m; Power Drift = -0.02 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 115.4 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **110.7 V/m**	Grid 2 **M4** **113.9 V/m**	Grid 3 **M4** **113.4 V/m**
Grid 4 **M4** **63.26 V/m**	Grid 5 **M4** **64.43 V/m**	Grid 6 **M4** **63.51 V/m**
Grid 7 **M4** **114.6 V/m**	Grid 8 **M4** **115.4 V/m**	Grid 9 **M4** **111.0 V/m**



Test Laboratory: UL Verification Services Inc. SAR Lab C Date: 7/10/2013

HAC-RF Emission

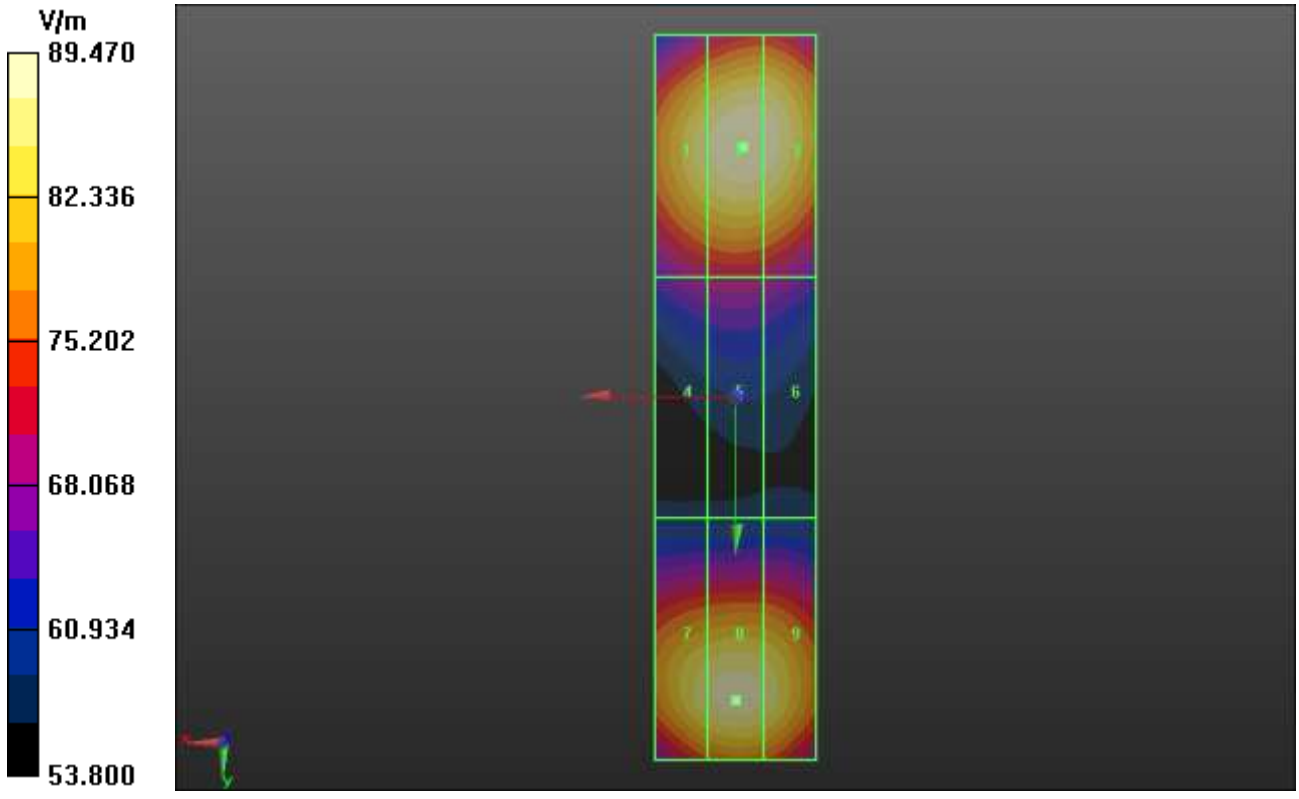
Communication System: UID 0, CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

Dipole E-Field measurement/1880 MHz/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 156.4 V/m; Power Drift = 0.04 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 89.47 V/m
Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M3** **86.94 V/m**	Grid 2 **M3** **89.47 V/m**	Grid 3 **M3** **88.91 V/m**
Grid 4 **M3** **69.89 V/m**	Grid 5 **M3** **70.89 V/m**	Grid 6 **M3** **69.95 V/m**
Grid 7 **M3** **86.60 V/m**	Grid 8 **M3** **88.18 V/m**	Grid 9 **M3** **86.91 V/m**



HAC-RF Emission

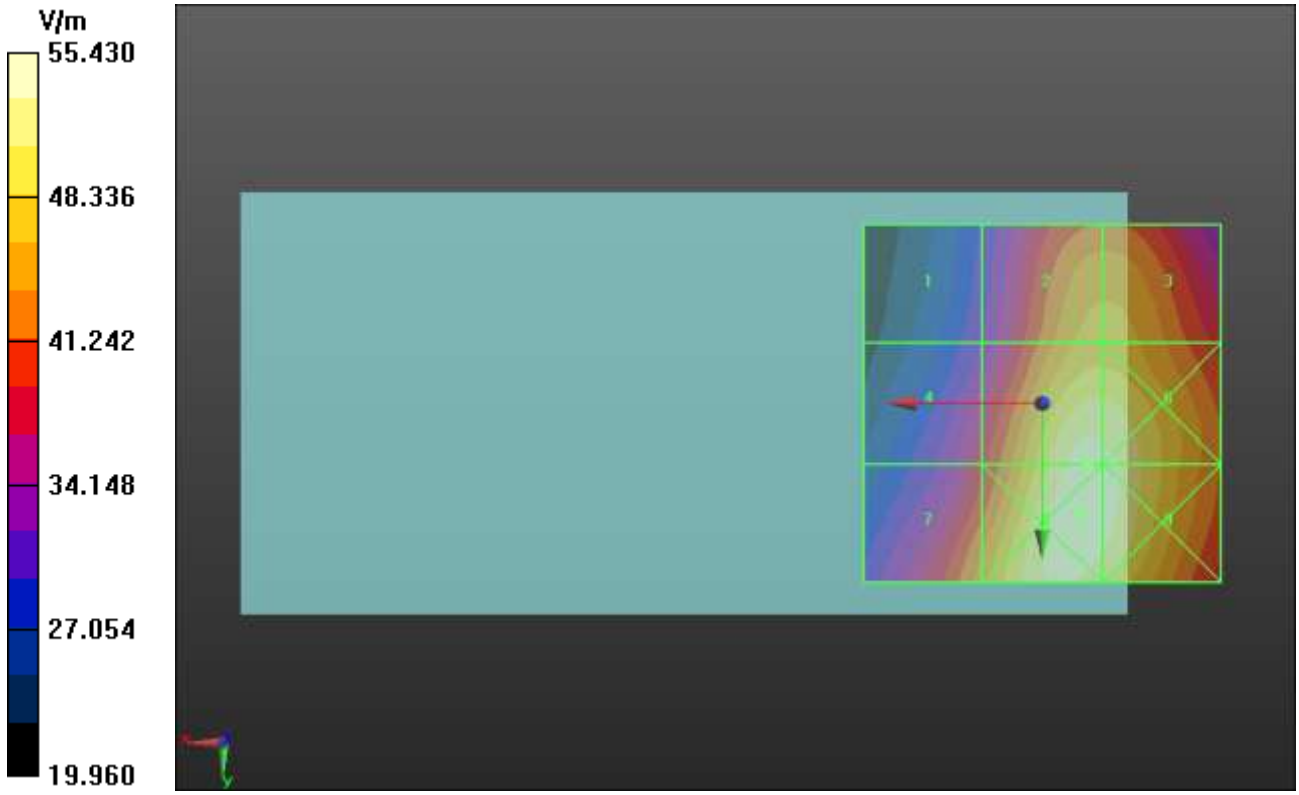
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- 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)

UAT_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 = 43.86 V/m; Power Drift = -0.07 dB
Applied MIF = 3.63 dB
RF audio interference level = 34.69 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **30.16 dBV/m**	Grid 2 **M4** **33.51 dBV/m**	Grid 3 **M4** **33.51 dBV/m**
Grid 4 **M4** **31.62 dBV/m**	Grid 5 **M4** **34.69 dBV/m**	Grid 6 **M4** **34.63 dBV/m**
Grid 7 **M4** **33.04 dBV/m**	Grid 8 **M4** **34.88 dBV/m**	Grid 9 **M4** **34.7 dBV/m**



HAC-RF Emission

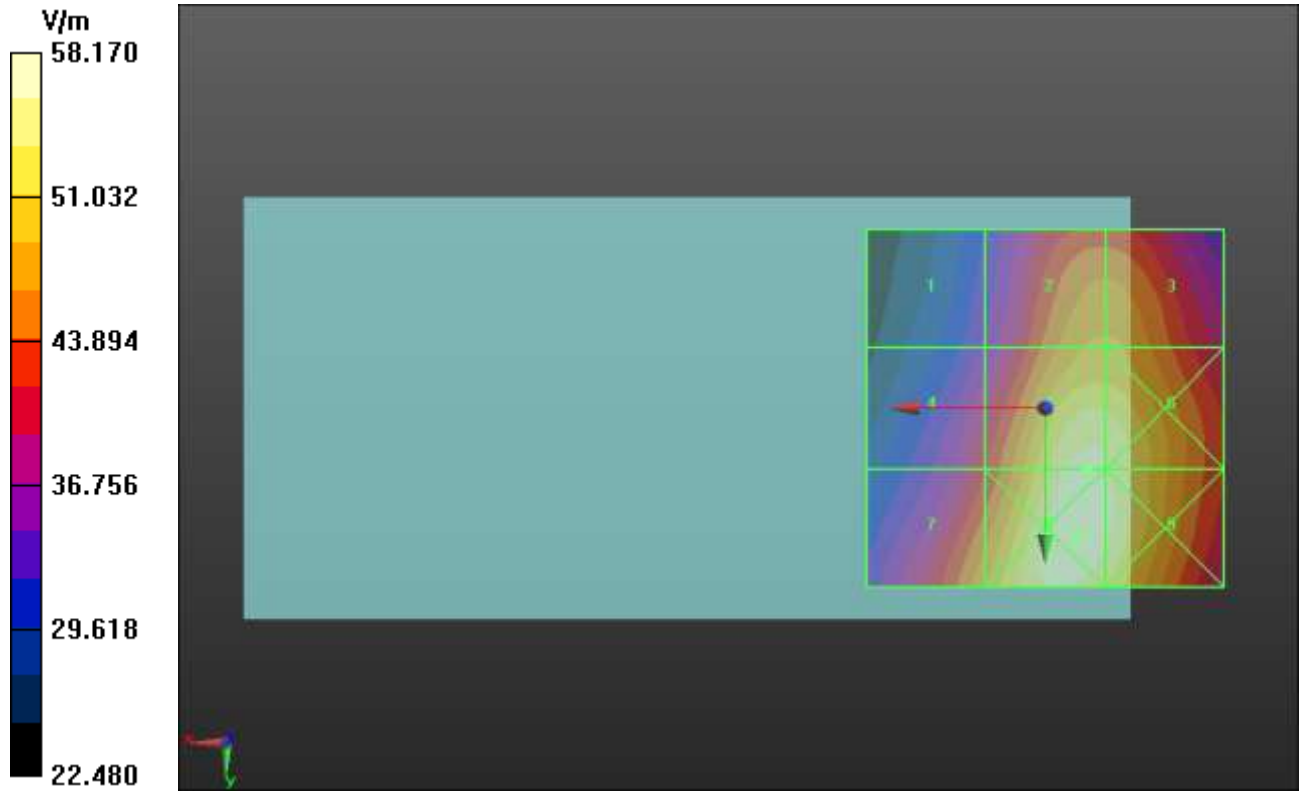
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- 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)

UAT_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 = 46.37 V/m; Power Drift = 0.02 dB
Applied MIF = 3.63 dB
RF audio interference level = 35.13 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **30.89 dBV/m**	Grid 2 **M4** **33.84 dBV/m**	Grid 3 **M4** **33.83 dBV/m**
Grid 4 **M4** **32.33 dBV/m**	Grid 5 **M4** **35.13 dBV/m**	Grid 6 **M4** **34.97 dBV/m**
Grid 7 **M4** **33.7 dBV/m**	Grid 8 **M4** **35.29 dBV/m**	Grid 9 **M4** **35.07 dBV/m**



HAC-RF Emission

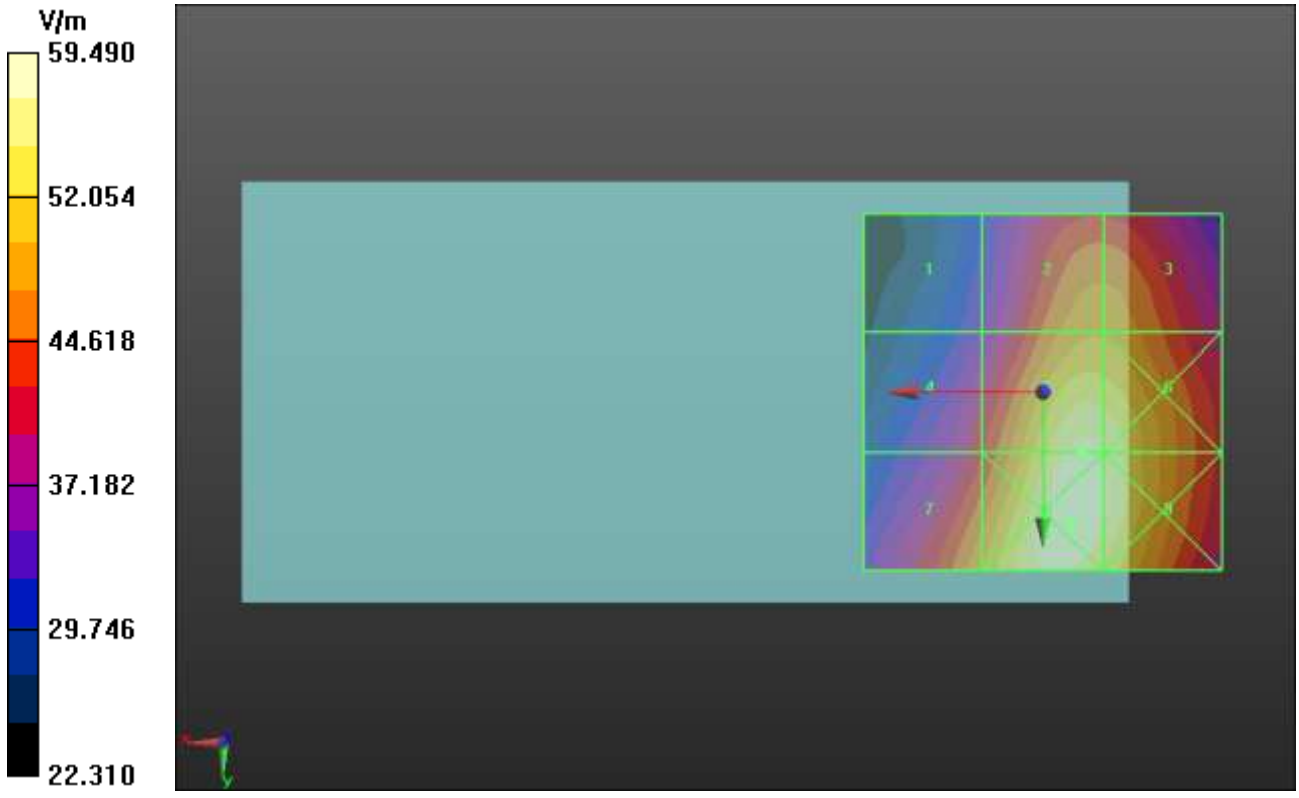
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- 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)

UAT_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 = 47.18 V/m; Power Drift = 0.01 dB
Applied MIF = 3.63 dB
RF audio interference level = 35.26 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **30.93 dBV/m**	Grid 2 **M4** **33.86 dBV/m**	Grid 3 **M4** **33.83 dBV/m**
Grid 4 **M4** **32.49 dBV/m**	Grid 5 **M4** **35.26 dBV/m**	Grid 6 **M4** **35.07 dBV/m**
Grid 7 **M4** **33.92 dBV/m**	Grid 8 **M4** **35.49 dBV/m**	Grid 9 **M4** **35.21 dBV/m**



HAC-RF Emission

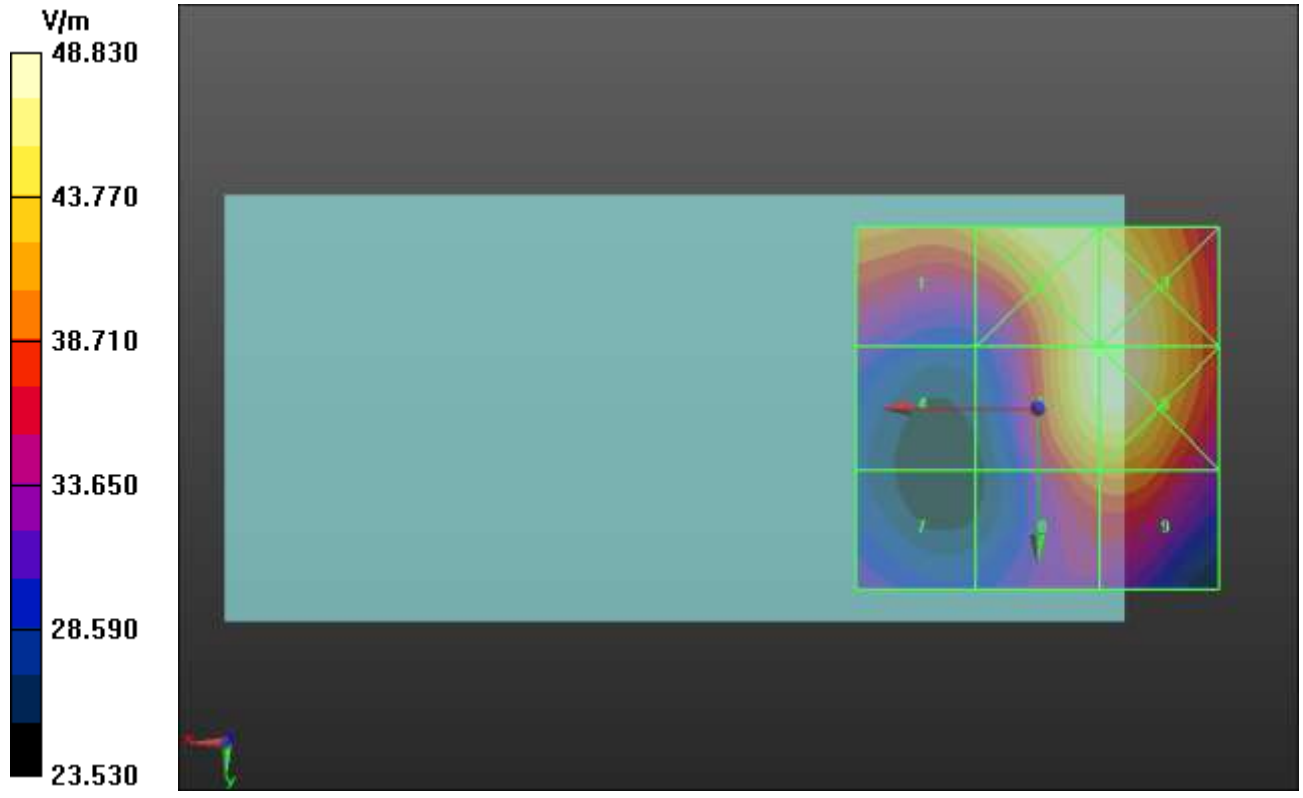
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- 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)

UAT_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 = 34.82 V/m; Power Drift = 0.02 dB
Applied MIF = 3.63 dB
RF audio interference level = 33.65 dBV/m
Emission category: M3

MIF scaled E-field

Grid 1 **M3** **32.42 dBV/m**	Grid 2 **M3** **33.64 dBV/m**	Grid 3 **M3** **33.77 dBV/m**
Grid 4 **M3** **30.14 dBV/m**	Grid 5 **M3** **33.65 dBV/m**	Grid 6 **M3** **33.77 dBV/m**
Grid 7 **M3** **30.16 dBV/m**	Grid 8 **M3** **32.24 dBV/m**	Grid 9 **M3** **32.33 dBV/m**



HAC-RF Emission

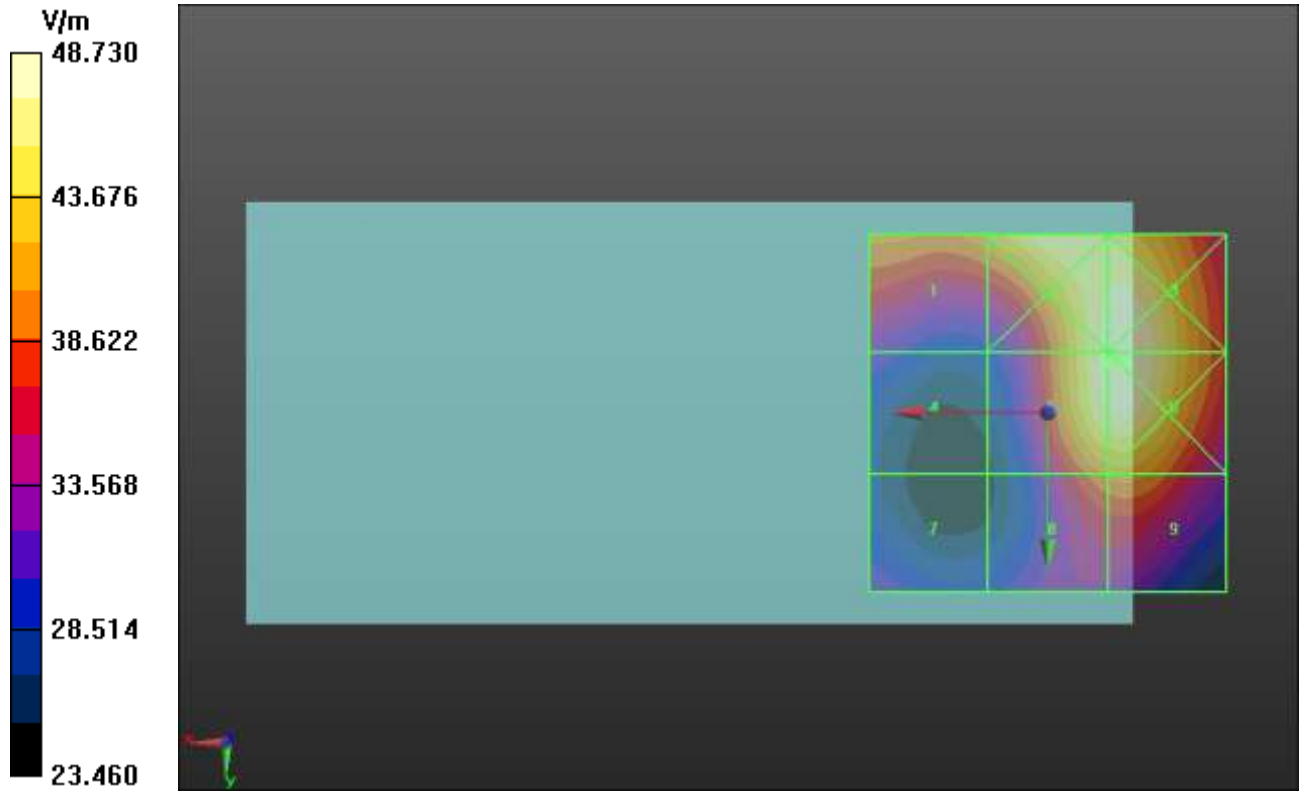
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

UAT_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 = 34.97 V/m; Power Drift = -0.05 dB
Applied MIF = 3.63 dB
RF audio interference level = 33.63 dBV/m
Emission category: M3

MIF scaled E-field

Grid 1 **M3** **32.44 dBV/m**	Grid 2 **M3** **33.62 dBV/m**	Grid 3 **M3** **33.75 dBV/m**
Grid 4 **M3** **30.11 dBV/m**	Grid 5 **M3** **33.63 dBV/m**	Grid 6 **M3** **33.76 dBV/m**
Grid 7 **M3** **30.08 dBV/m**	Grid 8 **M3** **32.2 dBV/m**	Grid 9 **M3** **32.31 dBV/m**



HAC-RF Emission

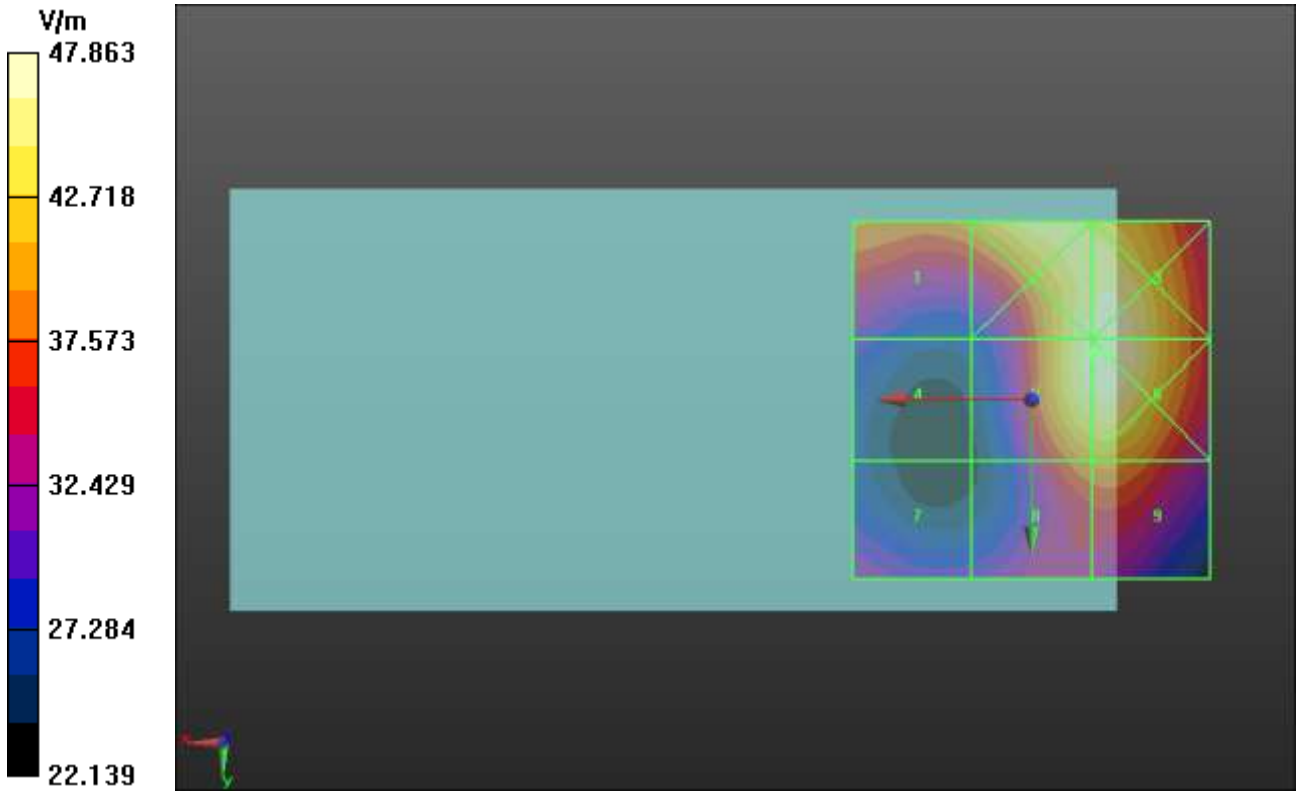
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- 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)

UAT_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 = 34.44 V/m; Power Drift = 0.04 dB
Applied MIF = 3.63 dB
RF audio interference level = 33.48 dBV/m
Emission category: M3

MIF scaled E-field

Grid 1 **M3** **32.17 dBV/m**	Grid 2 **M3** **33.44 dBV/m**	Grid 3 **M3** **33.57 dBV/m**
Grid 4 **M4** **29.73 dBV/m**	Grid 5 **M3** **33.48 dBV/m**	Grid 6 **M3** **33.6 dBV/m**
Grid 7 **M3** **30.2 dBV/m**	Grid 8 **M3** **32.02 dBV/m**	Grid 9 **M3** **32.11 dBV/m**



HAC-RF Emission

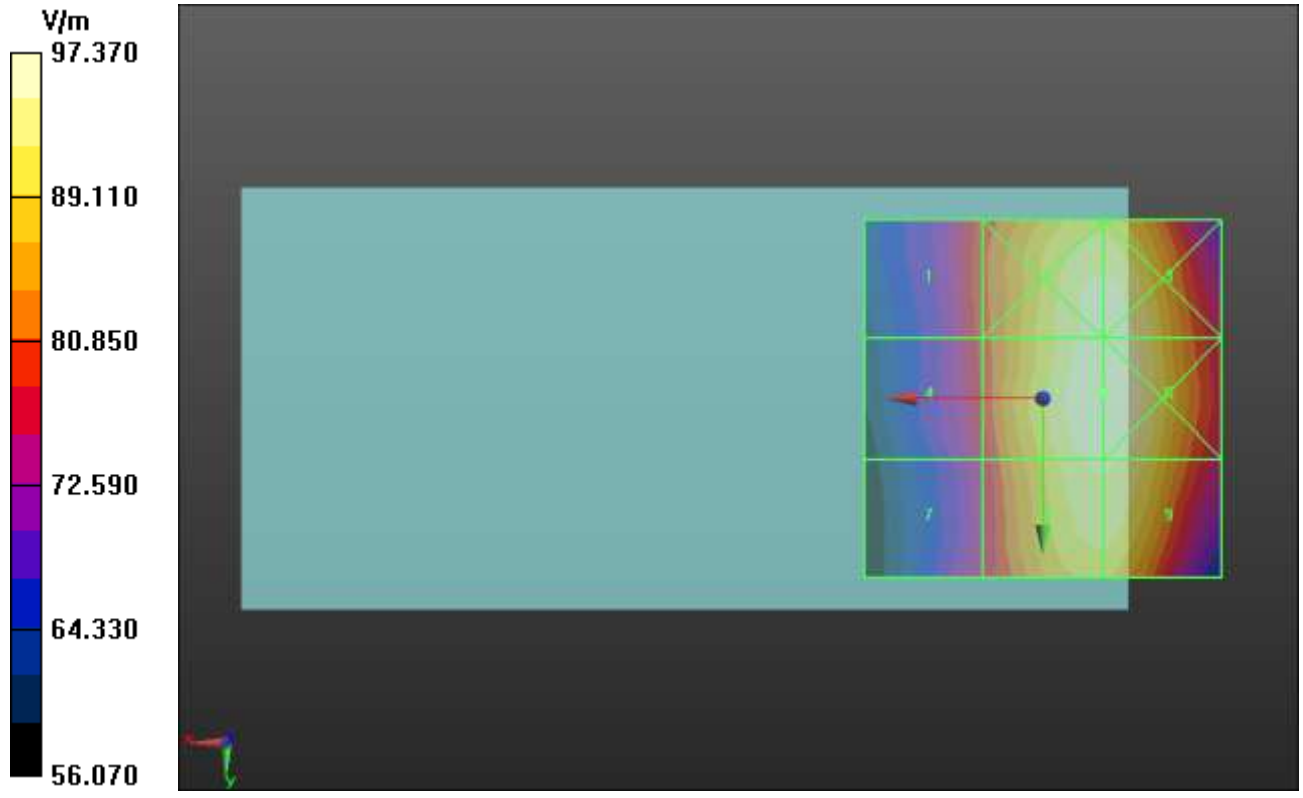
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- 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)

LAT_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 = 73.42 V/m; Power Drift = 0.28 dB
Applied MIF = 3.63 dB
RF audio interference level = 39.77 dBV/m
Emission category: M4

MIF scaled E-field

Grid 1 **M4** **38.08 dBV/m**	Grid 2 **M4** **39.68 dBV/m**	Grid 3 **M4** **39.68 dBV/m**
Grid 4 **M4** **37.99 dBV/m**	Grid 5 **M4** **39.77 dBV/m**	Grid 6 **M4** **39.77 dBV/m**
Grid 7 **M4** **37.66 dBV/m**	Grid 8 **M4** **39.59 dBV/m**	Grid 9 **M4** **39.59 dBV/m**



HAC-RF Emission

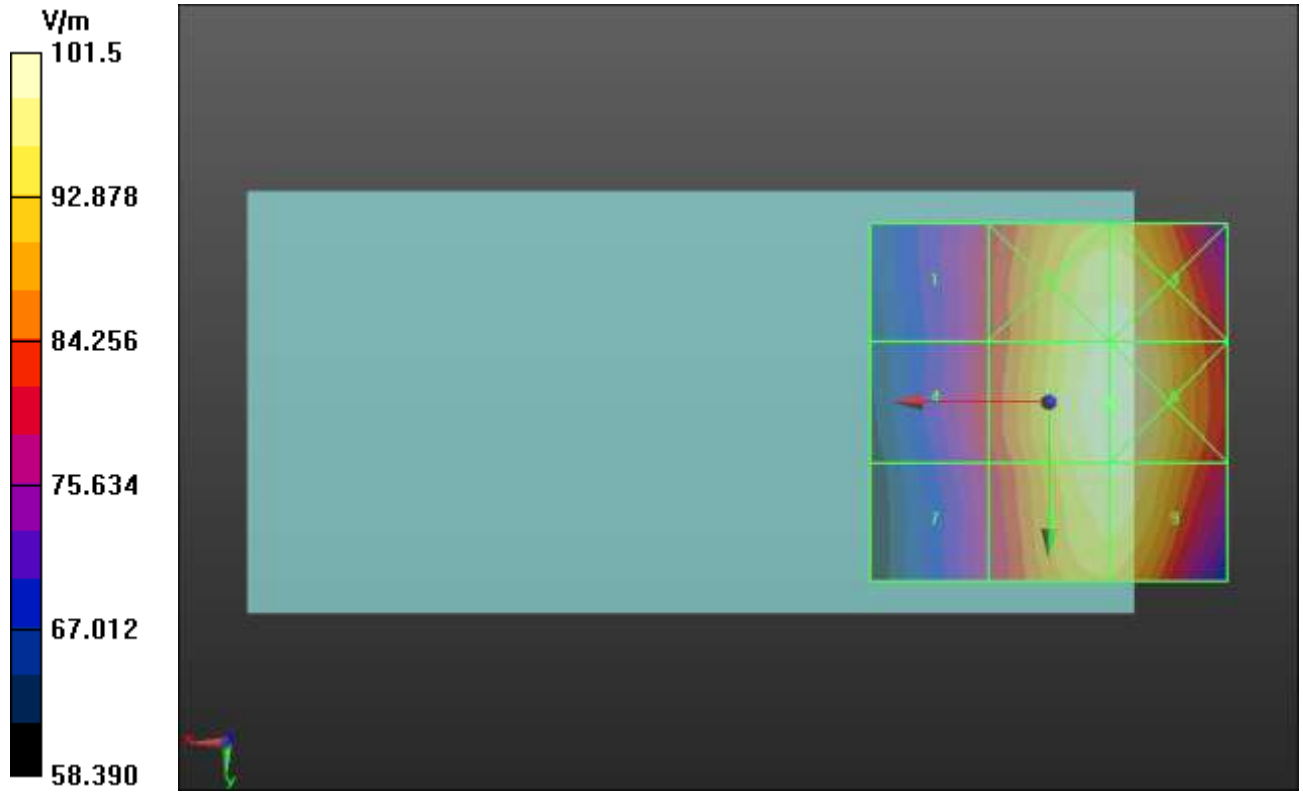
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- 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)

LAT_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 = 78.17 V/m; Power Drift = -0.01 dB
Applied MIF = 3.63 dB
RF audio interference level = 40.13 dBV/m
Emission category: M3

MIF scaled E-field

Grid 1 **M4** **38.13 dBV/m**	Grid 2 **M3** **40.01 dBV/m**	Grid 3 **M3** **40.02 dBV/m**
Grid 4 **M4** **38.25 dBV/m**	Grid 5 **M3** **40.12 dBV/m**	Grid 6 **M3** **40.13 dBV/m**
Grid 7 **M4** **38.04 dBV/m**	Grid 8 **M4** **39.93 dBV/m**	Grid 9 **M4** **39.93 dBV/m**



HAC-RF Emission

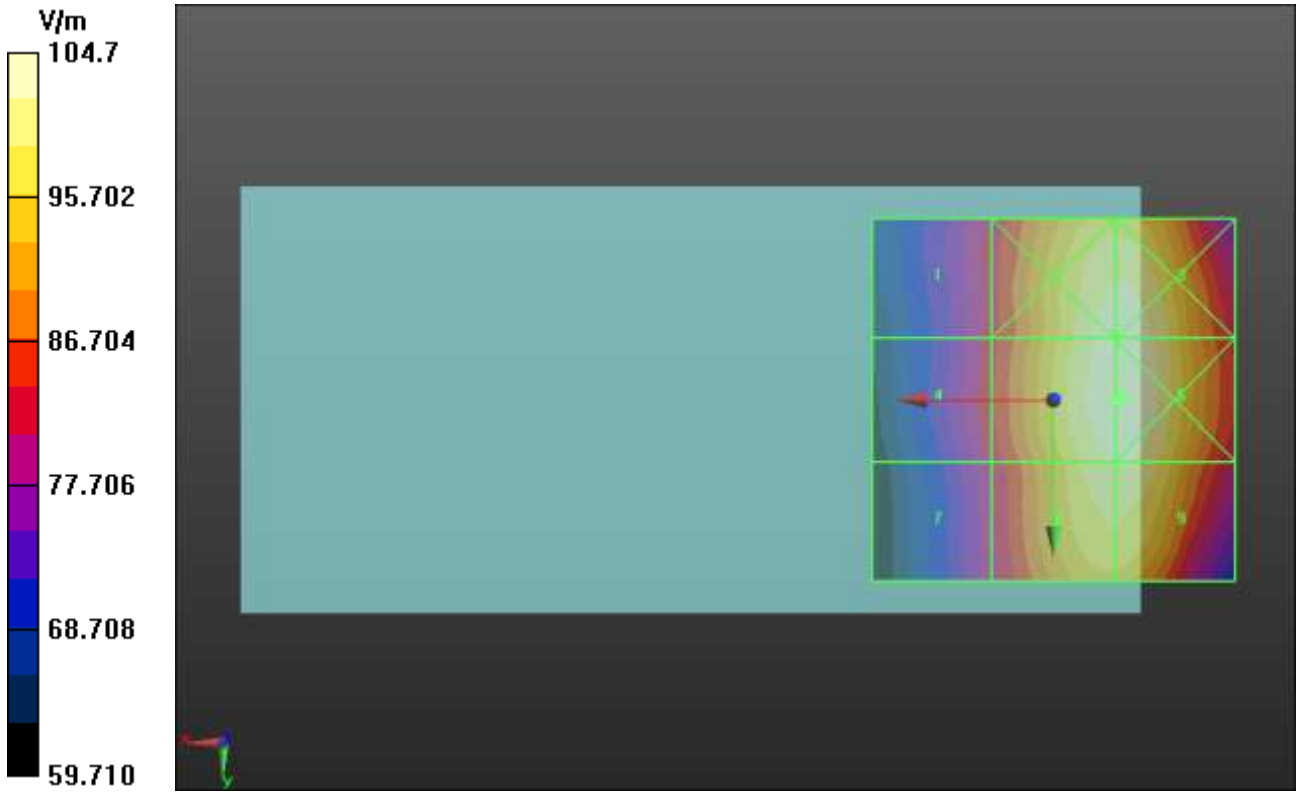
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- 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)

LAT_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 = 80.46 V/m; Power Drift = -0.01 dB
Applied MIF = 3.63 dB
RF audio interference level = 40.38 dBV/m
Emission category: M3

MIF scaled E-field

Grid 1 **M4** **38.35 dBV/m**	Grid 2 **M3** **40.29 dBV/m**	Grid 3 **M3** **40.3 dBV/m**
Grid 4 **M4** **38.46 dBV/m**	Grid 5 **M3** **40.38 dBV/m**	Grid 6 **M3** **40.4 dBV/m**
Grid 7 **M4** **38.22 dBV/m**	Grid 8 **M3** **40.17 dBV/m**	Grid 9 **M3** **40.18 dBV/m**



HAC-RF Emission

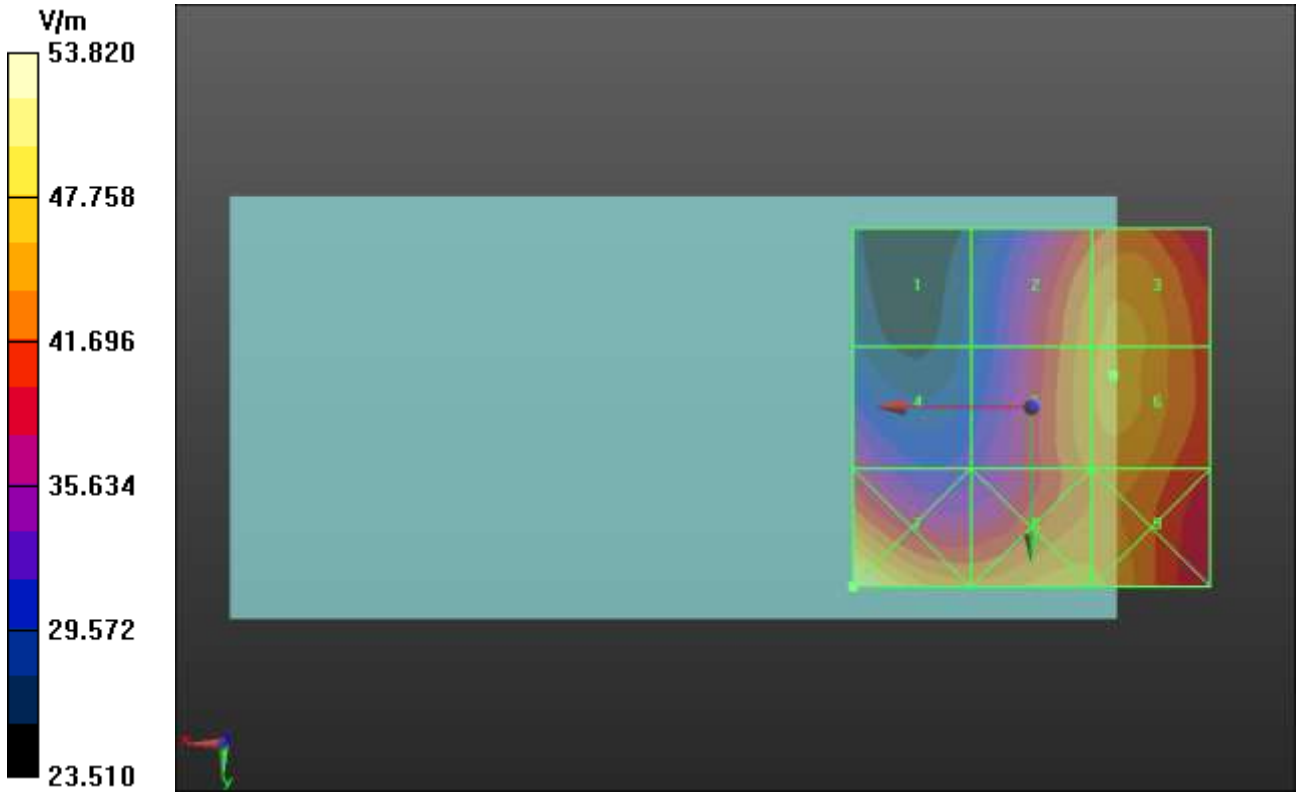
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- 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)

LAT_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 = 31.15 V/m; Power Drift = 0.01 dB
Applied MIF = 3.63 dB
RF audio interference level = 33.36 dBV/m
Emission category: M3

MIF scaled E-field

Grid 1 **M4** **29.27 dBV/m**	Grid 2 **M3** **33.11 dBV/m**	Grid 3 **M3** **33.34 dBV/m**
Grid 4 **M3** **31.54 dBV/m**	Grid 5 **M3** **33.18 dBV/m**	Grid 6 **M3** **33.36 dBV/m**
Grid 7 **M3** **34.62 dBV/m**	Grid 8 **M3** **33.44 dBV/m**	Grid 9 **M3** **33.35 dBV/m**



HAC-RF Emission

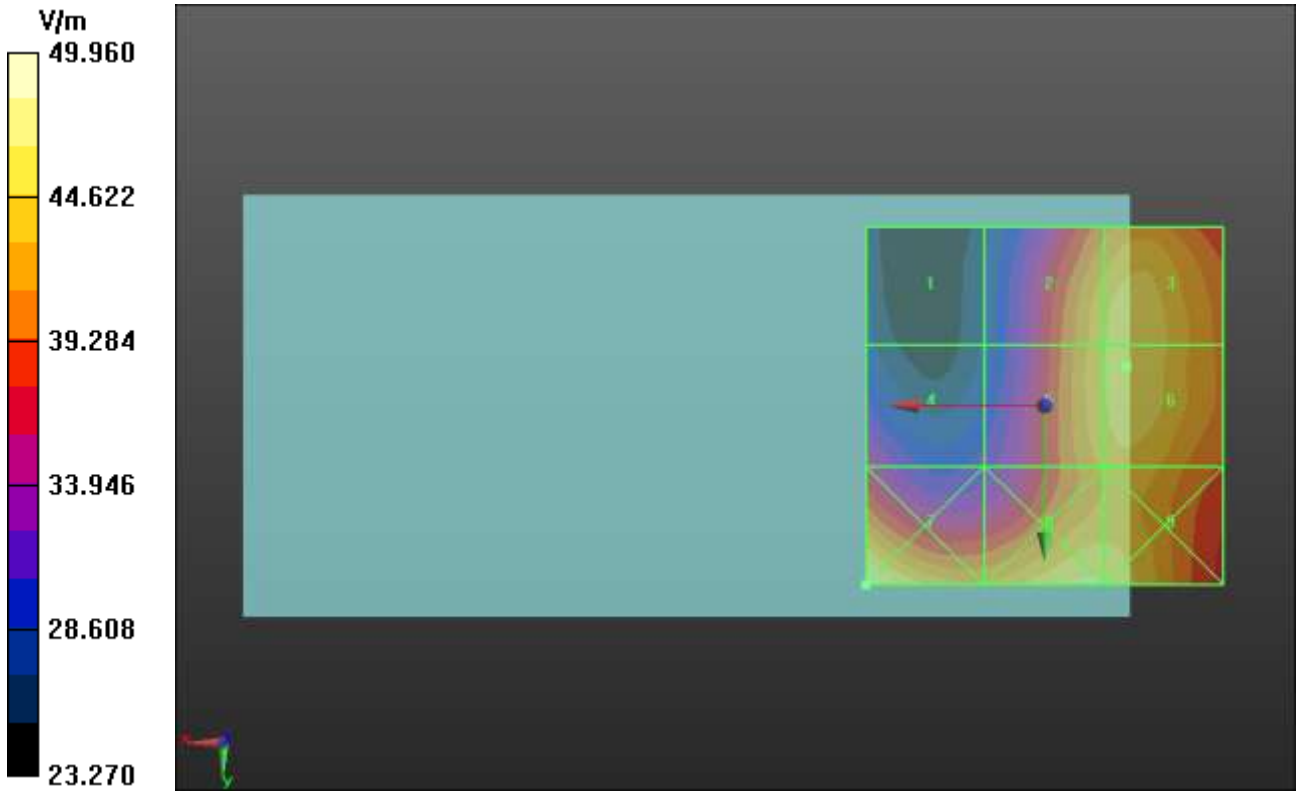
Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896
Phantom section: RF Section
DASY5 Configuration:
- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

LAT_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 = 30.07 V/m; Power Drift = 0.04 dB
Applied MIF = 3.63 dB
RF audio interference level = 33.24 dBV/m
Emission category: M3

MIF scaled E-field

Grid 1 **M4** **29.01 dBV/m**	Grid 2 **M3** **33 dBV/m**	Grid 3 **M3** **33.24 dBV/m**
Grid 4 **M3** **31.05 dBV/m**	Grid 5 **M3** **33.04 dBV/m**	Grid 6 **M3** **33.24 dBV/m**
Grid 7 **M3** **33.97 dBV/m**	Grid 8 **M3** **33.42 dBV/m**	Grid 9 **M3** **33.36 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: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1258; Calibrated: 3/6/2013
- 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)

LAT_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 = 31.65 V/m; Power Drift = -0.06 dB
Applied MIF = 3.63 dB
RF audio interference level = 33.68 dBV/m
Emission category: M3

MIF scaled E-field

Grid 1 **M4** **29.6 dBV/m**	Grid 2 **M3** **33.43 dBV/m**	Grid 3 **M3** **33.66 dBV/m**
Grid 4 **M3** **31.56 dBV/m**	Grid 5 **M3** **33.48 dBV/m**	Grid 6 **M3** **33.68 dBV/m**
Grid 7 **M3** **34.43 dBV/m**	Grid 8 **M3** **33.69 dBV/m**	Grid 9 **M3** **33.69 dBV/m**