

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 = 117.4 V/m; Power Drift = -0.03 dB

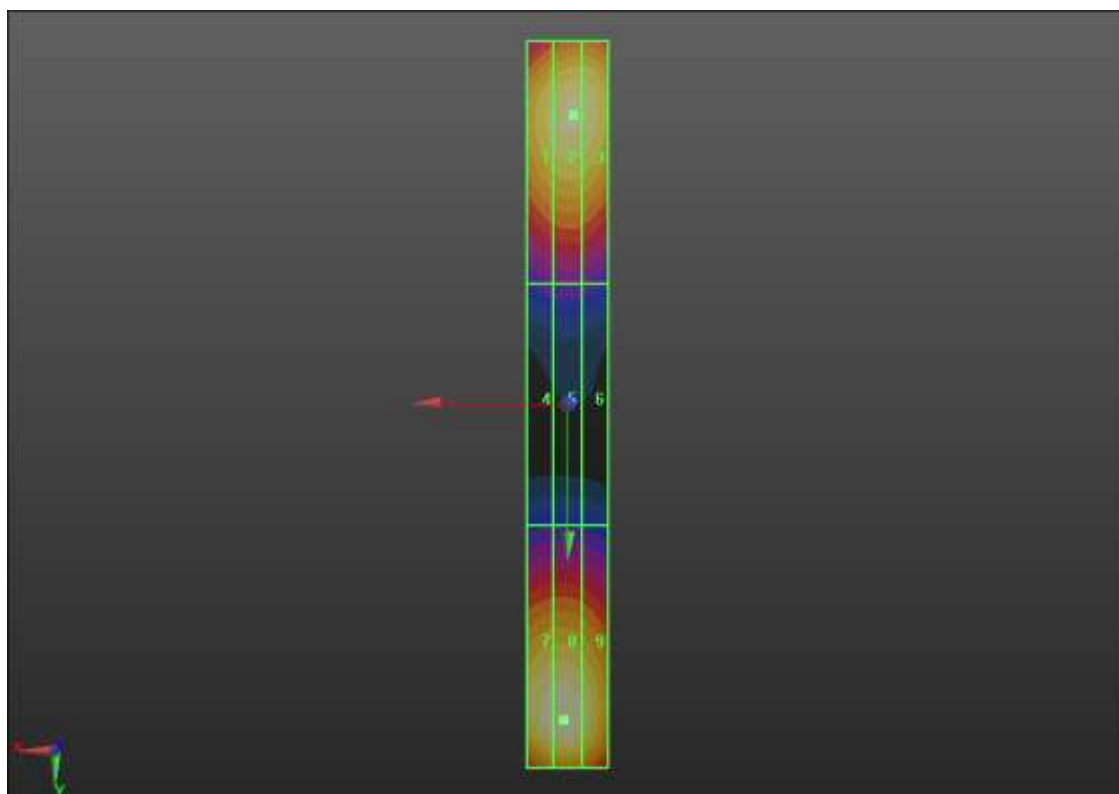
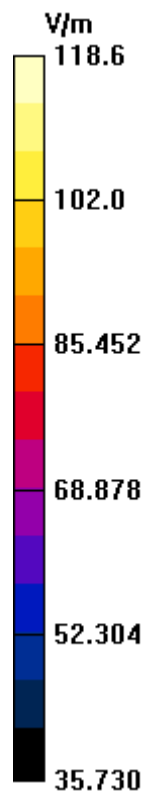
PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 118.6 V/m

Near-field category: **M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 M4 111.1 V/m	Grid 2 M4 114.3 V/m	Grid 3 M4 113.7 V/m
Grid 4 M4 63.53 V/m	Grid 5 M4 64.75 V/m	Grid 6 M4 63.86 V/m
Grid 7 M4 117.7 V/m	Grid 8 M4 118.6 V/m	Grid 9 M4 113.6 V/m



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 = 159.9 V/m; Power Drift = 0.06 dB

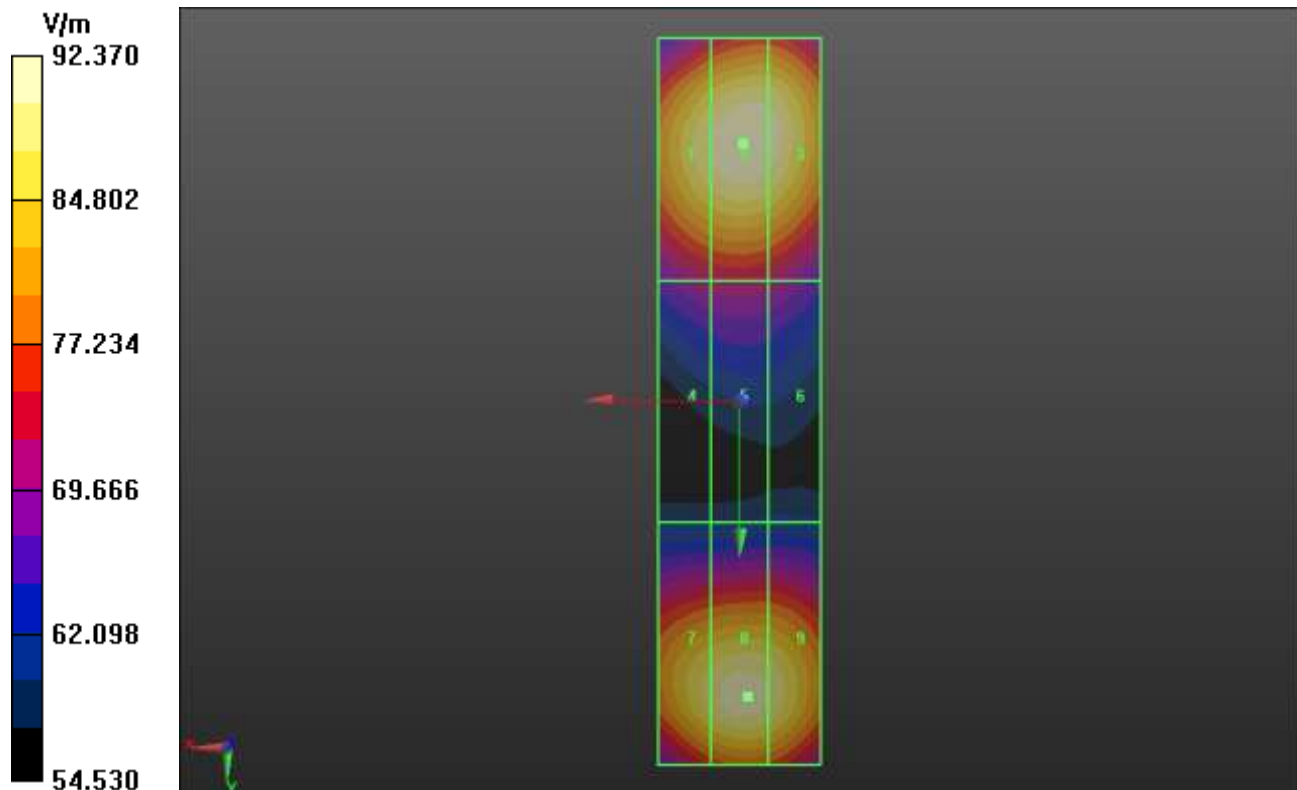
PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 92.37 V/m

Near-field category: **M3 (AWF 0 dB)**

PMF scaled E-field

Grid 1 M3 90.21 V/m	Grid 2 M3 92.37 V/m	Grid 3 M3 91.53 V/m
Grid 4 M3 71.68 V/m	Grid 5 M3 72.56 V/m	Grid 6 M3 71.48 V/m
Grid 7 M3 88.87 V/m	Grid 8 M3 90.91 V/m	Grid 9 M3 89.90 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 = 42.31 V/m; Power Drift = -0.00 dB

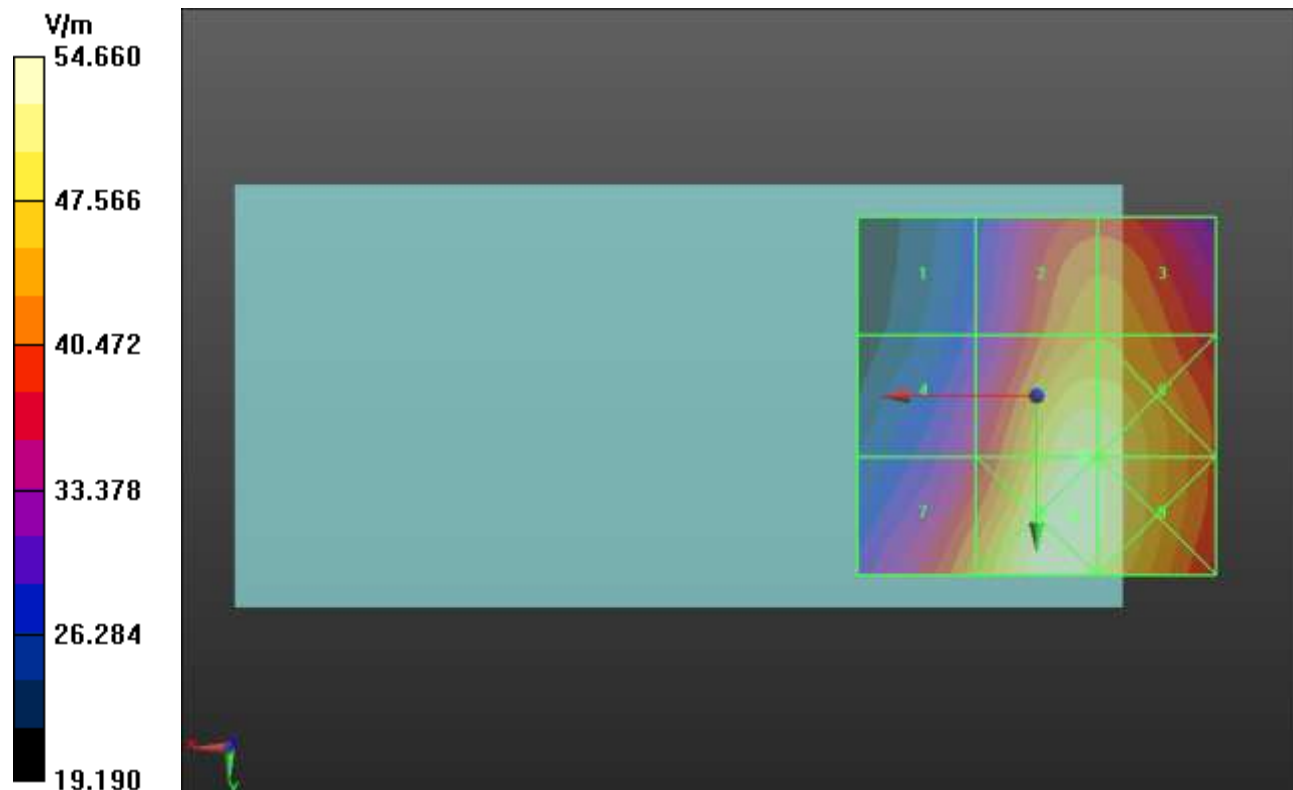
Applied MIF = 3.63 dB

RF audio interference level = 34.44 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 29.54 dBV/m	Grid 2 M4 33.08 dBV/m	Grid 3 M4 33.08 dBV/m
Grid 4 M4 31.19 dBV/m	Grid 5 M4 34.44 dBV/m	Grid 6 M4 34.35 dBV/m
Grid 7 M4 33 dBV/m	Grid 8 M4 34.75 dBV/m	Grid 9 M4 34.5 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 = 45.30 V/m; Power Drift = -0.04 dB

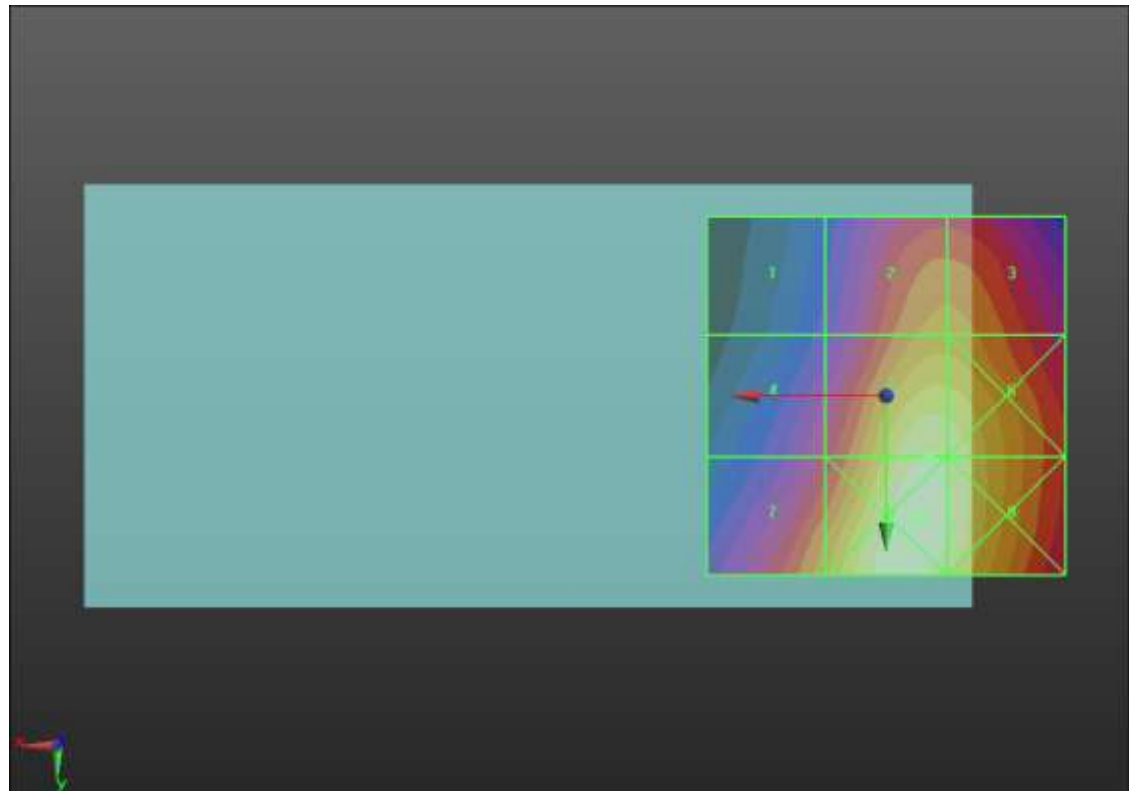
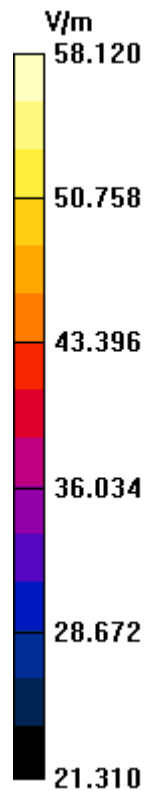
Applied MIF = 3.63 dB

RF audio interference level = 34.95 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 30.28 dBV/m	Grid 2 M4 33.48 dBV/m	Grid 3 M4 33.48 dBV/m
Grid 4 M4 31.94 dBV/m	Grid 5 M4 34.95 dBV/m	Grid 6 M4 34.82 dBV/m
Grid 7 M4 33.61 dBV/m	Grid 8 M4 35.29 dBV/m	Grid 9 M4 34.98 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 = 45.67 V/m; Power Drift = -0.04 dB

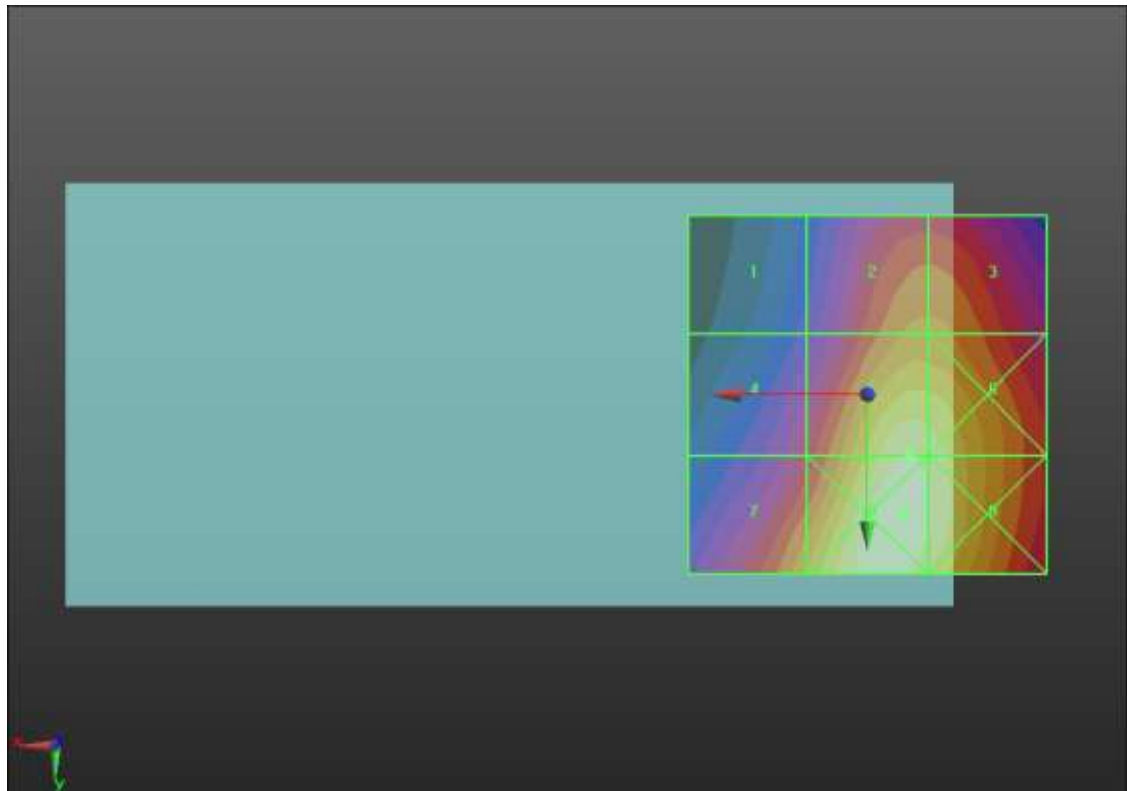
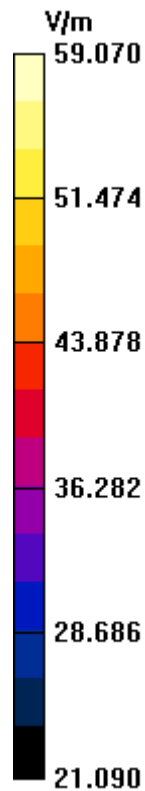
Applied MIF = 3.63 dB

RF audio interference level = 35.05 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 30.28 dBV/m	Grid 2 M4 33.51 dBV/m	Grid 3 M4 33.5 dBV/m
Grid 4 M4 32.02 dBV/m	Grid 5 M4 35.05 dBV/m	Grid 6 M4 34.91 dBV/m
Grid 7 M4 33.79 dBV/m	Grid 8 M4 35.43 dBV/m	Grid 9 M4 35.1 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 = 36.70 V/m; Power Drift = 0.01 dB

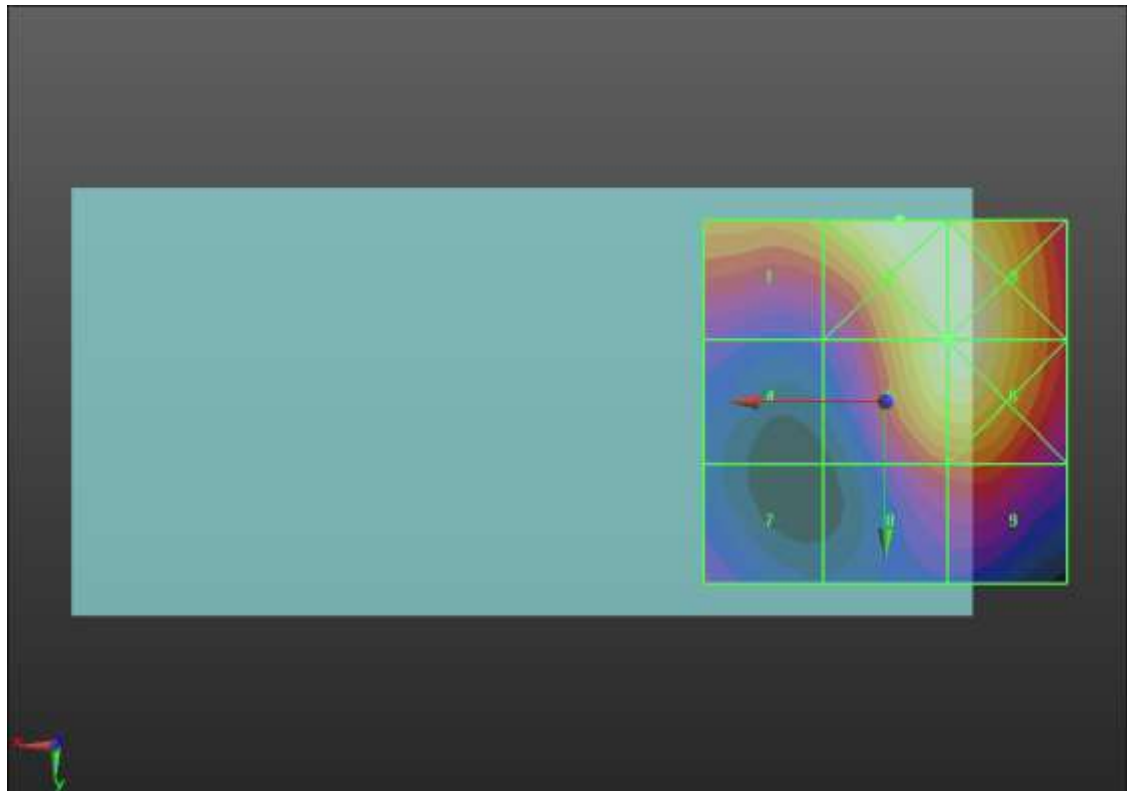
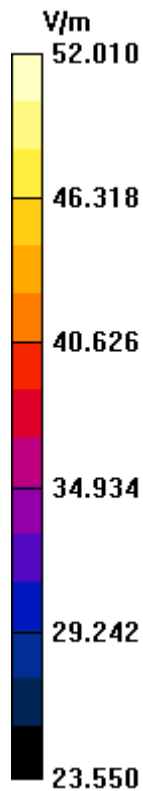
Applied MIF = 3.63 dB

RF audio interference level = 34.13 dBV/m

Emission category: **M3**

MIF scaled E-field

Grid 1 M3 33.22 dBV/m	Grid 2 M3 34.32 dBV/m	Grid 3 M3 34.29 dBV/m
Grid 4 M3 30.55 dBV/m	Grid 5 M3 34.13 dBV/m	Grid 6 M3 34.2 dBV/m
Grid 7 M3 30.61 dBV/m	Grid 8 M3 32.15 dBV/m	Grid 9 M3 32.28 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 = 37.59 V/m; Power Drift = -0.04 dB

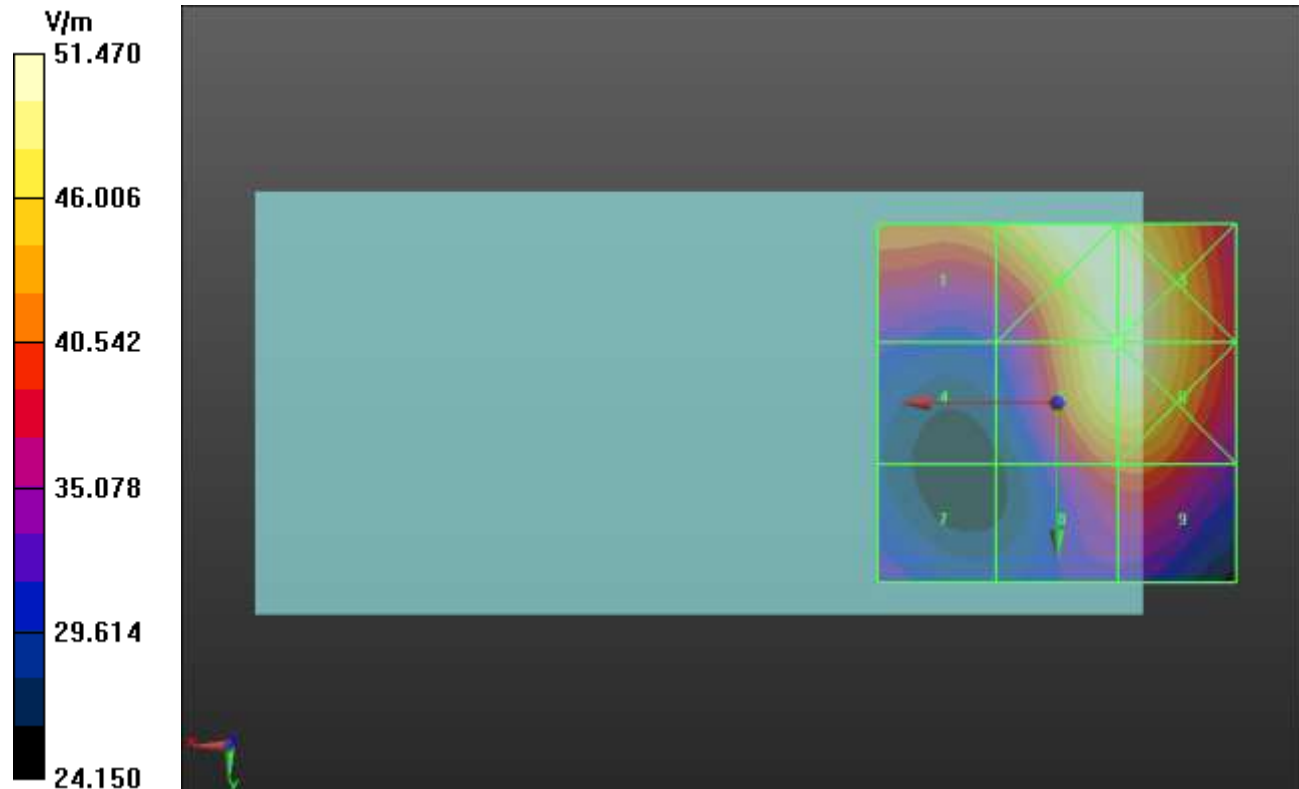
Applied MIF = 3.63 dB

RF audio interference level = 34.16 dBV/m

Emission category: **M3**

MIF scaled E-field

Grid 1 M3 33.03 dBV/m	Grid 2 M3 34.19 dBV/m	Grid 3 M3 34.23 dBV/m
Grid 4 M3 30.31 dBV/m	Grid 5 M3 34.16 dBV/m	Grid 6 M3 34.2 dBV/m
Grid 7 M3 30.53 dBV/m	Grid 8 M3 32.32 dBV/m	Grid 9 M3 32.41 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 = 37.71 V/m; Power Drift = -0.28 dB

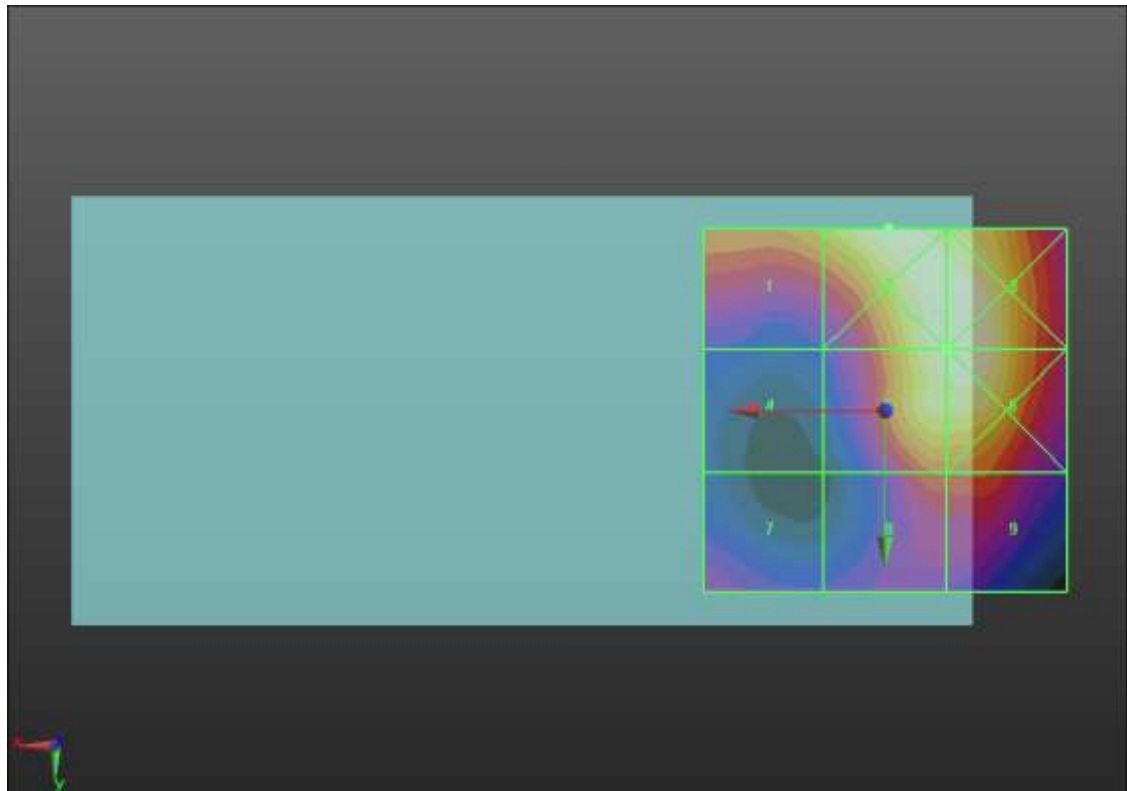
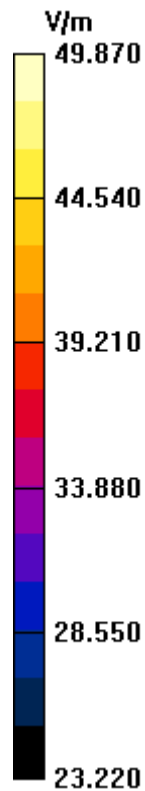
Applied MIF = 3.63 dB

RF audio interference level = 33.81 dBV/m

Emission category: **M3**

MIF scaled E-field

Grid 1 M3 32.82 dBV/m	Grid 2 M3 33.96 dBV/m	Grid 3 M3 33.87 dBV/m
Grid 4 M4 29.73 dBV/m	Grid 5 M3 33.81 dBV/m	Grid 6 M3 33.86 dBV/m
Grid 7 M3 30.71 dBV/m	Grid 8 M3 31.94 dBV/m	Grid 9 M3 31.98 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 = 87.15 V/m; Power Drift = 0.00 dB

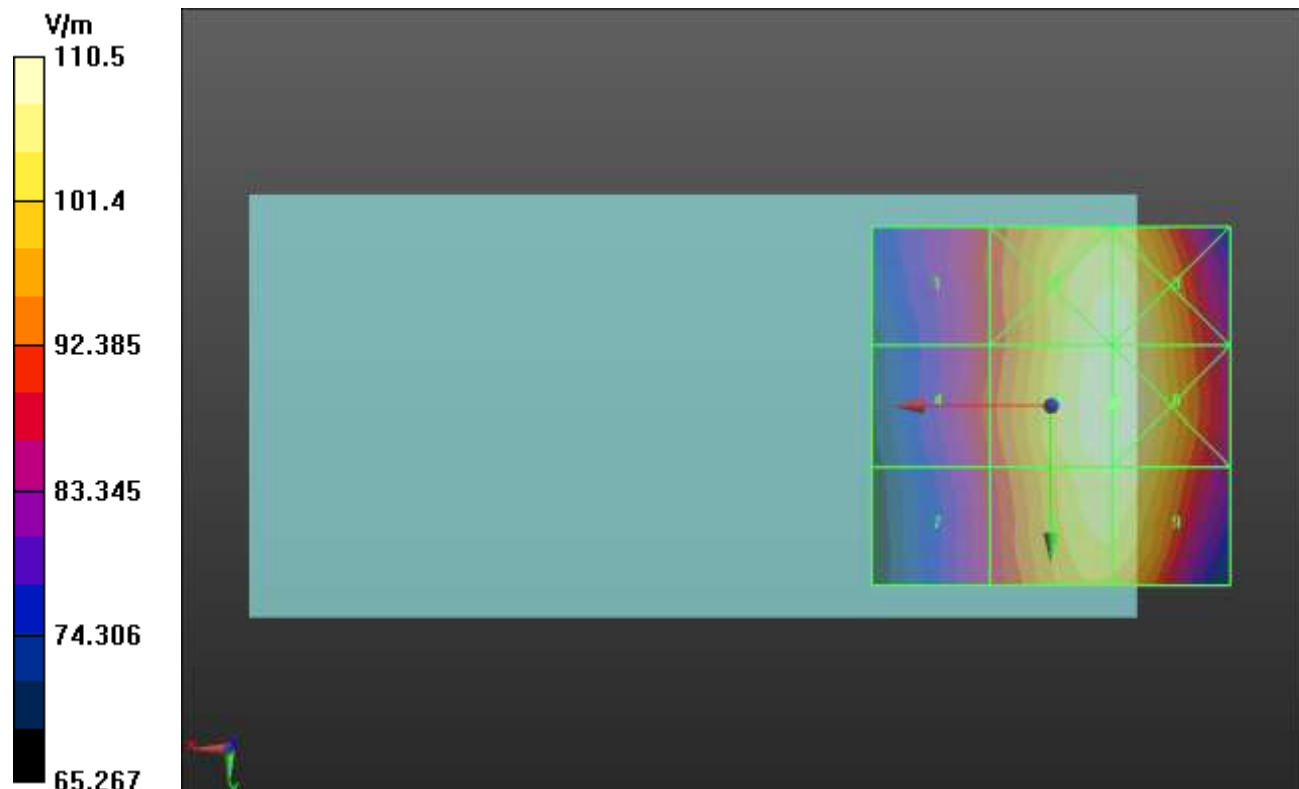
Applied MIF = 3.63 dB

RF audio interference level = 40.86 dBV/m

Emission category: **M3**

MIF scaled E-field

Grid 1 M4 39.13 dBV/m	Grid 2 M3 40.76 dBV/m	Grid 3 M3 40.76 dBV/m
Grid 4 M4 39.2 dBV/m	Grid 5 M3 40.86 dBV/m	Grid 6 M3 40.86 dBV/m
Grid 7 M4 38.97 dBV/m	Grid 8 M3 40.67 dBV/m	Grid 9 M3 40.67 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 = 93.08 V/m; Power Drift = -0.06 dB

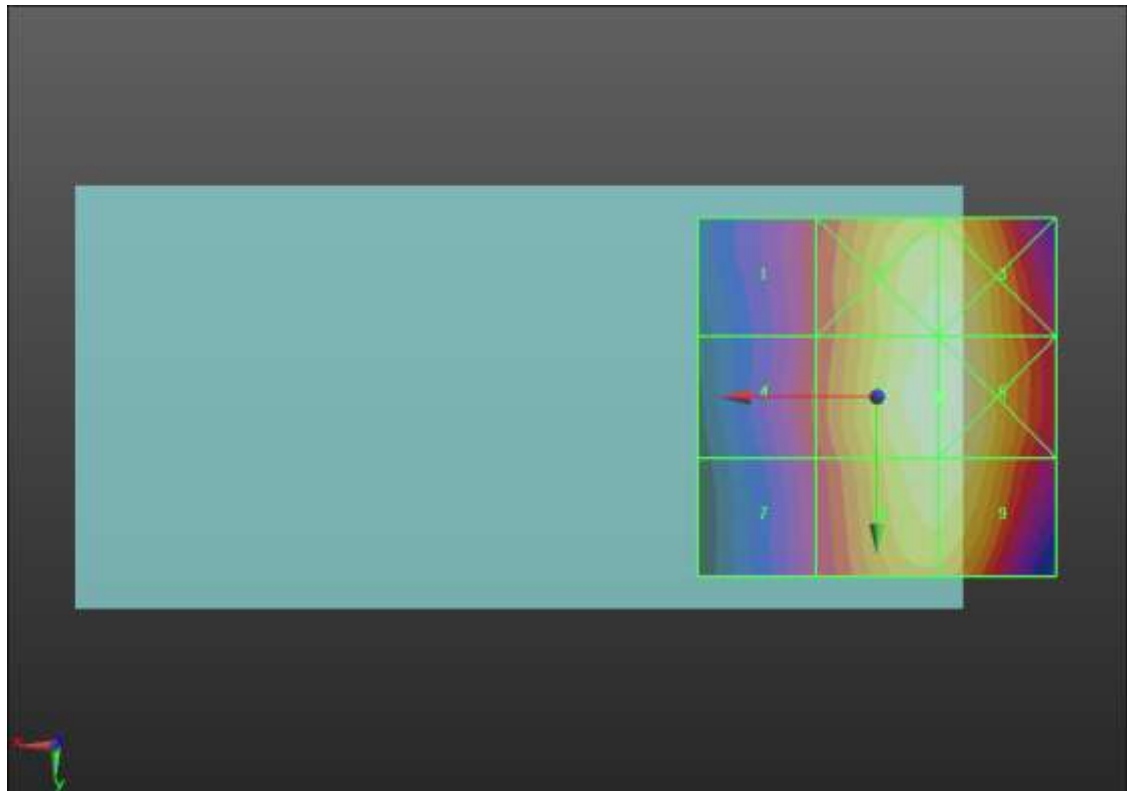
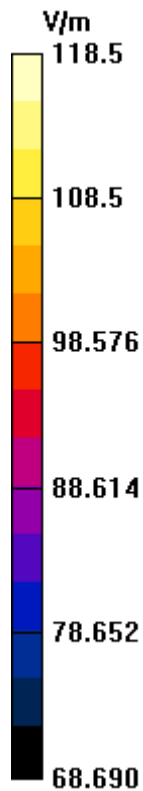
Applied MIF = 3.63 dB

RF audio interference level = 41.47 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M4 39.57 dBV/m	Grid 2 M3 41.37 dBV/m	Grid 3 M3 41.37 dBV/m
Grid 4 M4 39.69 dBV/m	Grid 5 M3 41.47 dBV/m	Grid 6 M3 41.47 dBV/m
Grid 7 M4 39.43 dBV/m	Grid 8 M3 41.26 dBV/m	Grid 9 M3 41.26 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 = 90.99 V/m; Power Drift = -0.01 dB

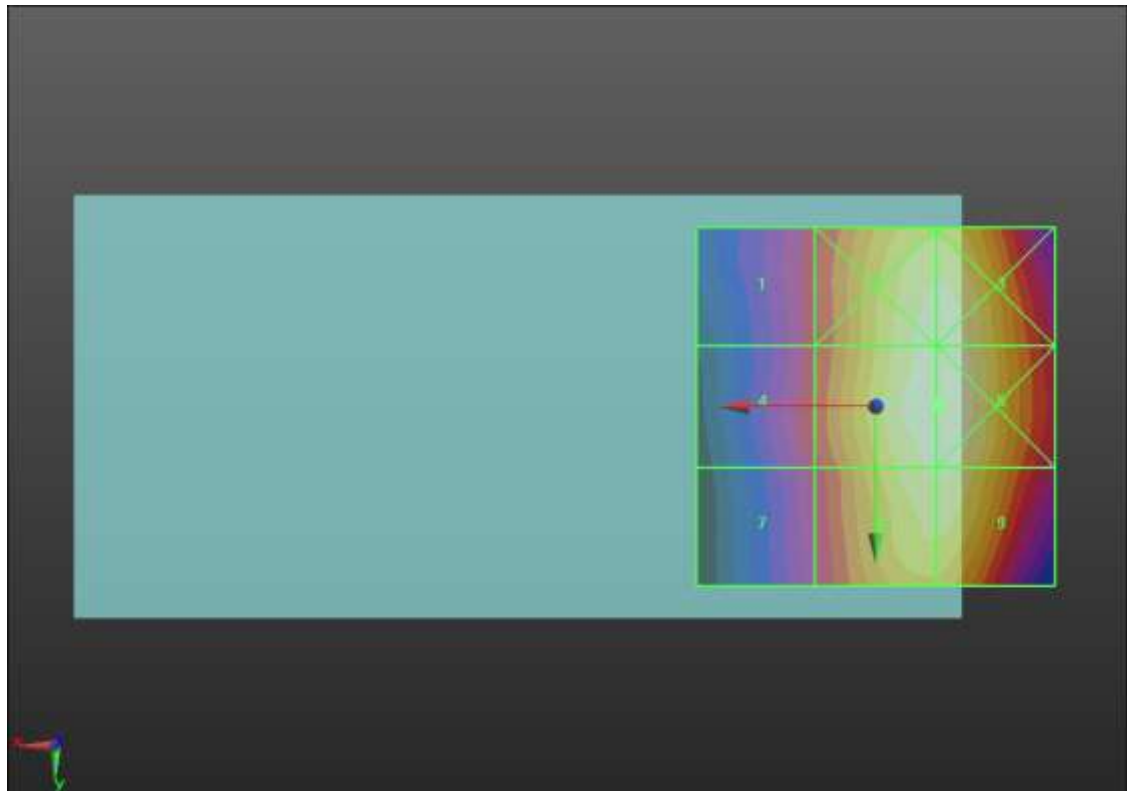
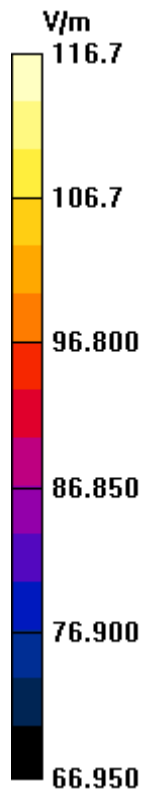
Applied MIF = 3.63 dB

RF audio interference level = 41.34 dBV/m

Emission category: **M3**

MIF scaled E-field

Grid 1 M4 39.39 dBV/m	Grid 2 M3 41.25 dBV/m	Grid 3 M3 41.26 dBV/m
Grid 4 M4 39.48 dBV/m	Grid 5 M3 41.34 dBV/m	Grid 6 M3 41.34 dBV/m
Grid 7 M4 39.25 dBV/m	Grid 8 M3 41.15 dBV/m	Grid 9 M3 41.15 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 = 28.30 V/m; Power Drift = 0.04 dB

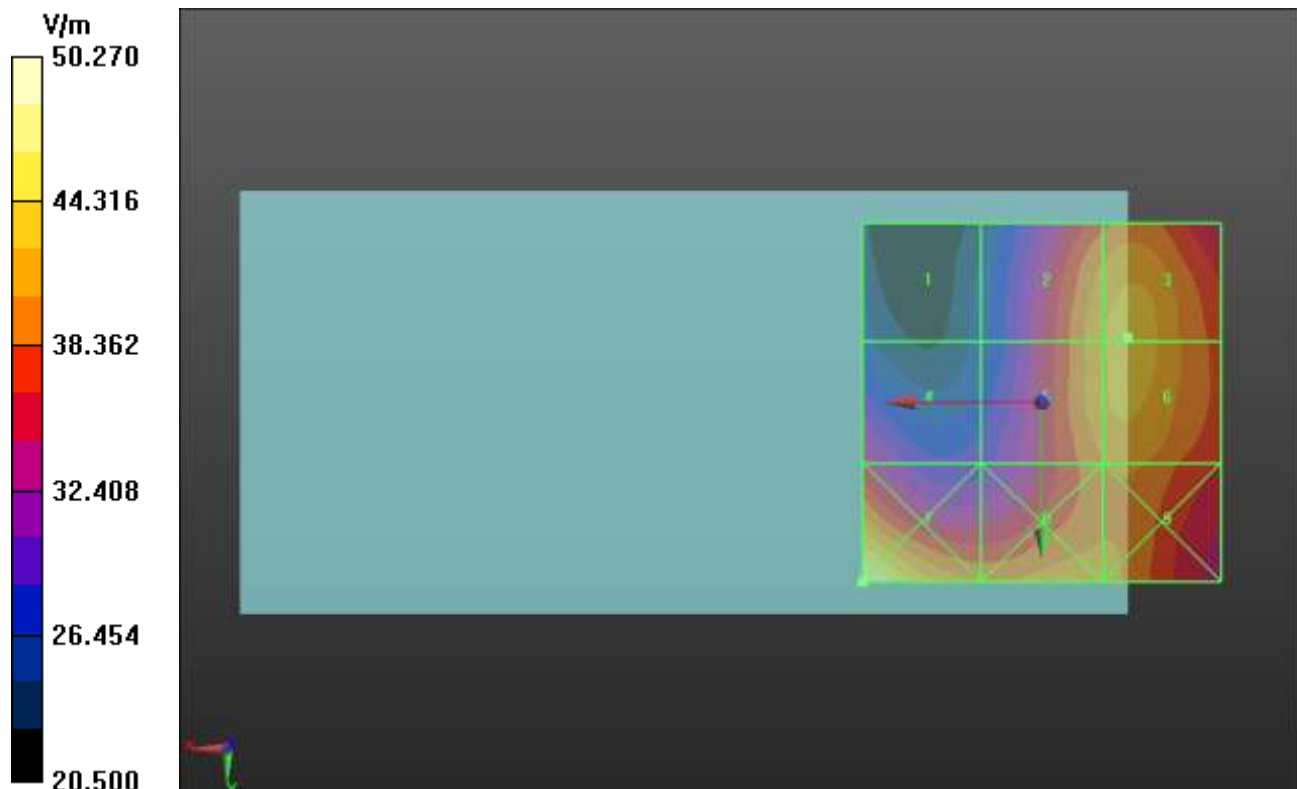
Applied MIF = 3.63 dB

RF audio interference level = 32.73 dBV/m

Emission category: **M3**

MIF scaled E-field

Grid 1 M4 28.37 dBV/m	Grid 2 M3 32.5 dBV/m	Grid 3 M3 32.73 dBV/m
Grid 4 M3 30.8 dBV/m	Grid 5 M3 32.5 dBV/m	Grid 6 M3 32.73 dBV/m
Grid 7 M3 34.03 dBV/m	Grid 8 M3 32.39 dBV/m	Grid 9 M3 32.31 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 = 27.47 V/m; Power Drift = -0.02 dB

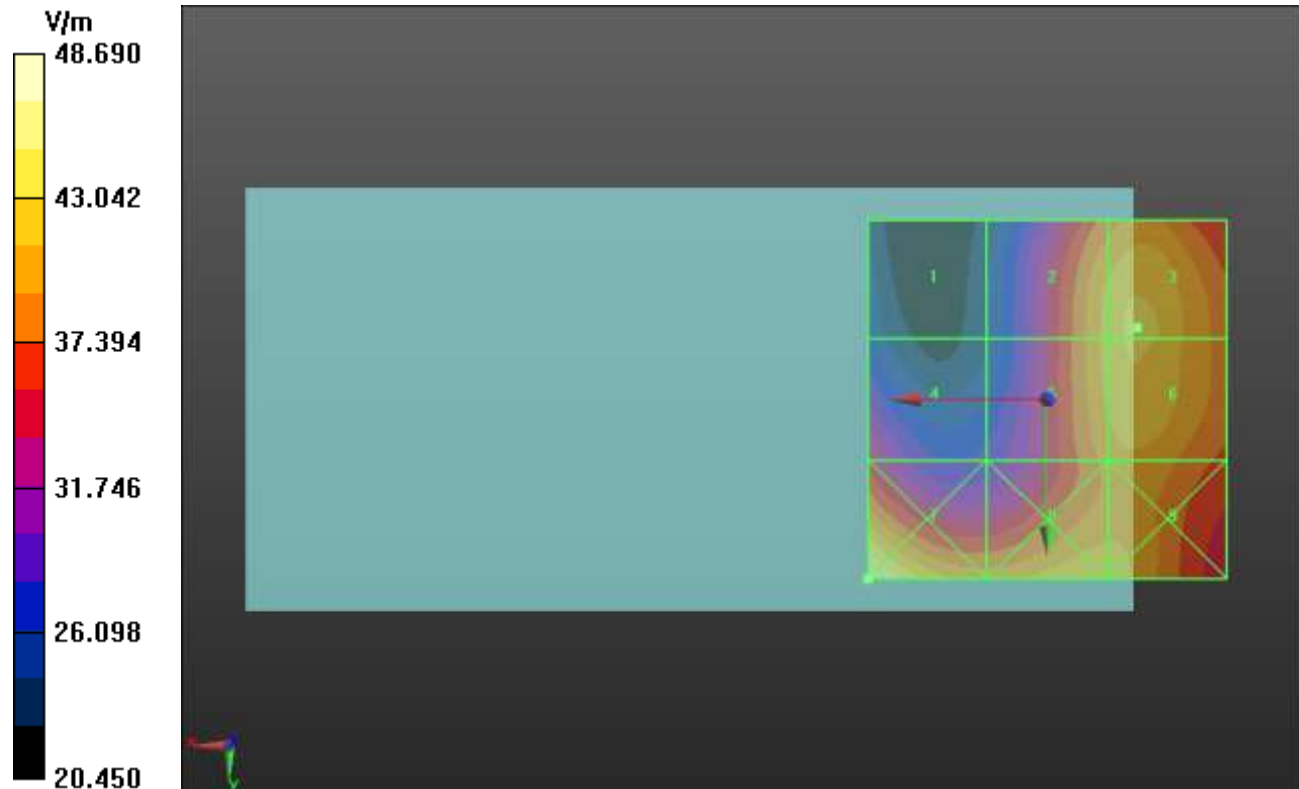
Applied MIF = 3.63 dB

RF audio interference level = 32.75 dBV/m

Emission category: **M3**

MIF scaled E-field

Grid 1 M4 28.61 dBV/m	Grid 2 M3 32.45 dBV/m	Grid 3 M3 32.75 dBV/m
Grid 4 M3 30.82 dBV/m	Grid 5 M3 32.45 dBV/m	Grid 6 M3 32.74 dBV/m
Grid 7 M3 33.75 dBV/m	Grid 8 M3 32.62 dBV/m	Grid 9 M3 32.54 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 = 28.74 V/m; Power Drift = 0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 33.21 dBV/m

Emission category: **M3**

MIF scaled E-field

Grid 1 M4 29.59 dBV/m	Grid 2 M3 32.95 dBV/m	Grid 3 M3 33.21 dBV/m
Grid 4 M3 31.61 dBV/m	Grid 5 M3 32.95 dBV/m	Grid 6 M3 33.21 dBV/m
Grid 7 M3 34.36 dBV/m	Grid 8 M3 32.99 dBV/m	Grid 9 M3 32.96 dBV/m

