

HAC-RF Emission

Communication System: GPRS-FDD (TDMA, GMSK 1 slot); Frequency: 824.4 MHz; Duty Cycle: 1:8.70964

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5);SEMCAD X Version 14.6.8 (7028)

GSM850/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 = 77.99 V/m; Power Drift = -0.11 dB

Applied MIF = 3.60 dB

RF audio interference level = 38.79 dBV/m

Emission category: M4

MIF scaled E-field

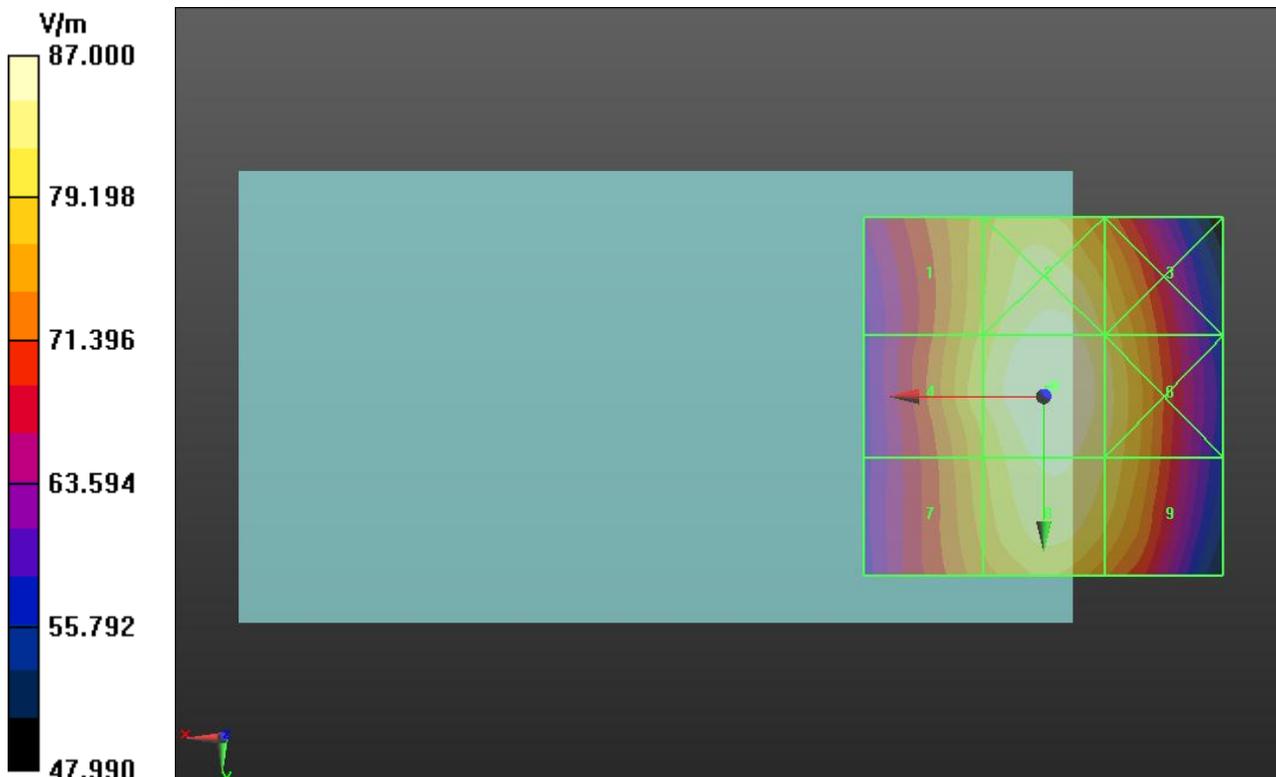
Grid 1 M4 38.06 dBV/m	Grid 2 M4 38.64 dBV/m	Grid 3 M4 38.24 dBV/m
Grid 4 M4 38.25 dBV/m	Grid 5 M4 38.79 dBV/m	Grid 6 M4 38.41 dBV/m
Grid 7 M4 37.94 dBV/m	Grid 8 M4 38.59 dBV/m	Grid 9 M4 38.27 dBV/m

Cursor:

Total = 38.79 dBV/m

E Category: M4

Location: -1.5, -1.5, 8.7 mm



HAC-RF Emission

Communication System: GPRS-FDD (TDMA, GMSK 1 slot); Frequency: 836.6 MHz; Duty Cycle: 1:8.70964

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

GSM850/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 = 93.67 V/m; Power Drift = -0.25 dB

Applied MIF = 3.60 dB

RF audio interference level = 40.32 dBV/m

Emission category: M3

MIF scaled E-field

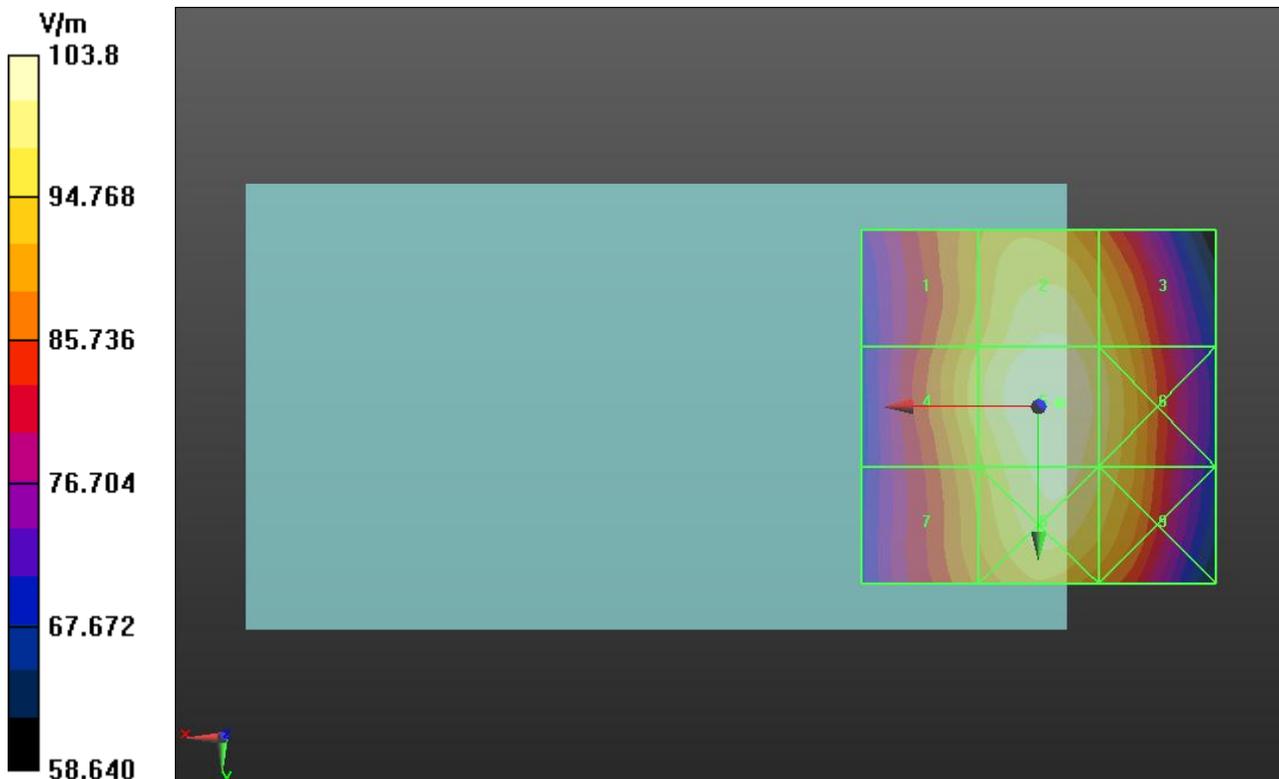
Grid 1 M4 39.52 dBV/m	Grid 2 M3 40.14 dBV/m	Grid 3 M4 39.81 dBV/m
Grid 4 M4 39.73 dBV/m	Grid 5 M3 40.32 dBV/m	Grid 6 M4 39.99 dBV/m
Grid 7 M4 39.43 dBV/m	Grid 8 M3 40.17 dBV/m	Grid 9 M4 39.87 dBV/m

Cursor:

Total = 40.32 dBV/m

E Category: M3

Location: -3, -0.5, 8.7 mm



HAC-RF Emission

Communication System: GPRS-FDD (TDMA, GMSK 1 slot); Frequency: 848.8 MHz; Duty Cycle: 1:8.70964

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

GSM850/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 = 88.16 V/m; Power Drift = 0.01 dB

Applied MIF = 3.60 dB

RF audio interference level = 40.00 dBV/m

Emission category: **M3**

MIF scaled E-field

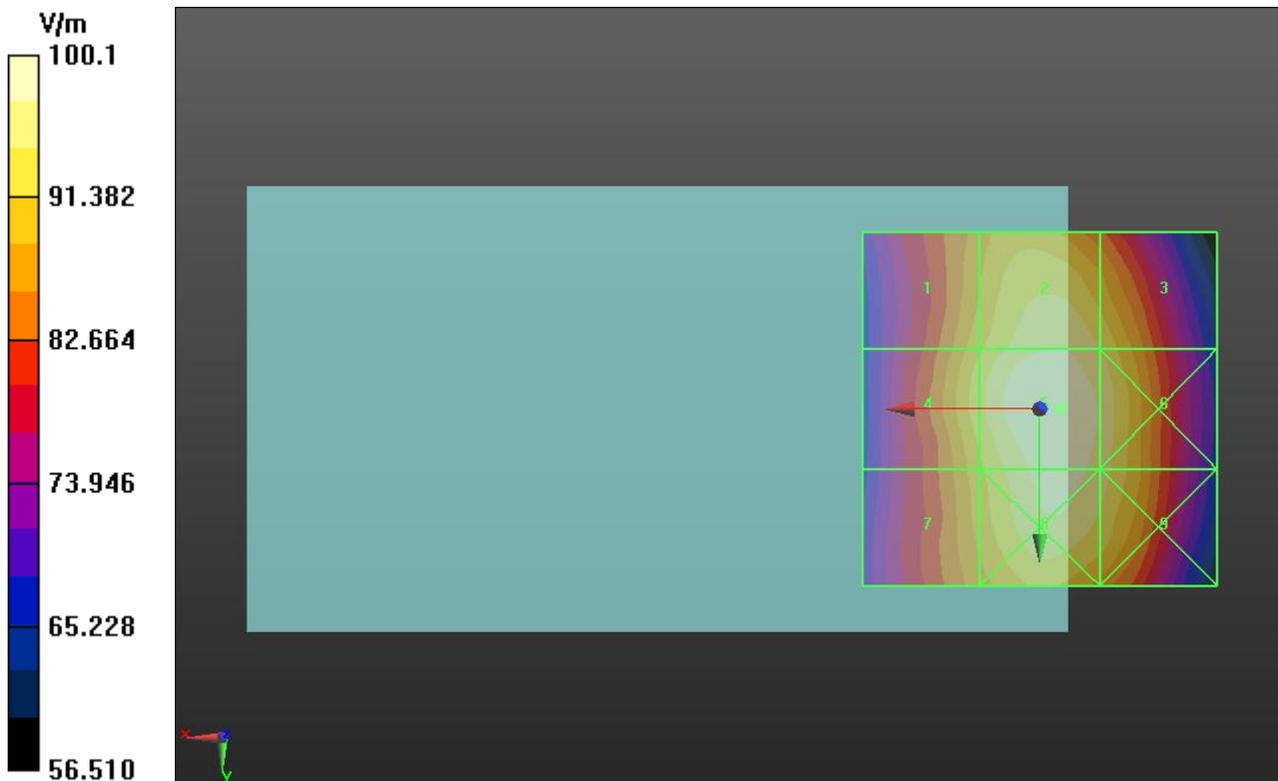
Grid 1 M4 39.18 dBV/m	Grid 2 M4 39.76 dBV/m	Grid 3 M4 39.5 dBV/m
Grid 4 M4 39.42 dBV/m	Grid 5 M3 40 dBV/m	Grid 6 M4 39.73 dBV/m
Grid 7 M4 39.15 dBV/m	Grid 8 M4 39.87 dBV/m	Grid 9 M4 39.63 dBV/m

Cursor:

Total = 40.00 dBV/m

E Category: M3

Location: -3, 0, 8.7 mm



HAC-RF Emission

Communication System: GPRS-FDD (TDMA, GMSK 1 slot); Frequency: 1850.2 MHz; Duty Cycle: 1:8.70964

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

PCS1900/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 = 17.35 V/m; Power Drift = 0.08 dB

Applied MIF = 3.60 dB

RF audio interference level = 27.86 dBV/m

Emission category: M4

MIF scaled E-field

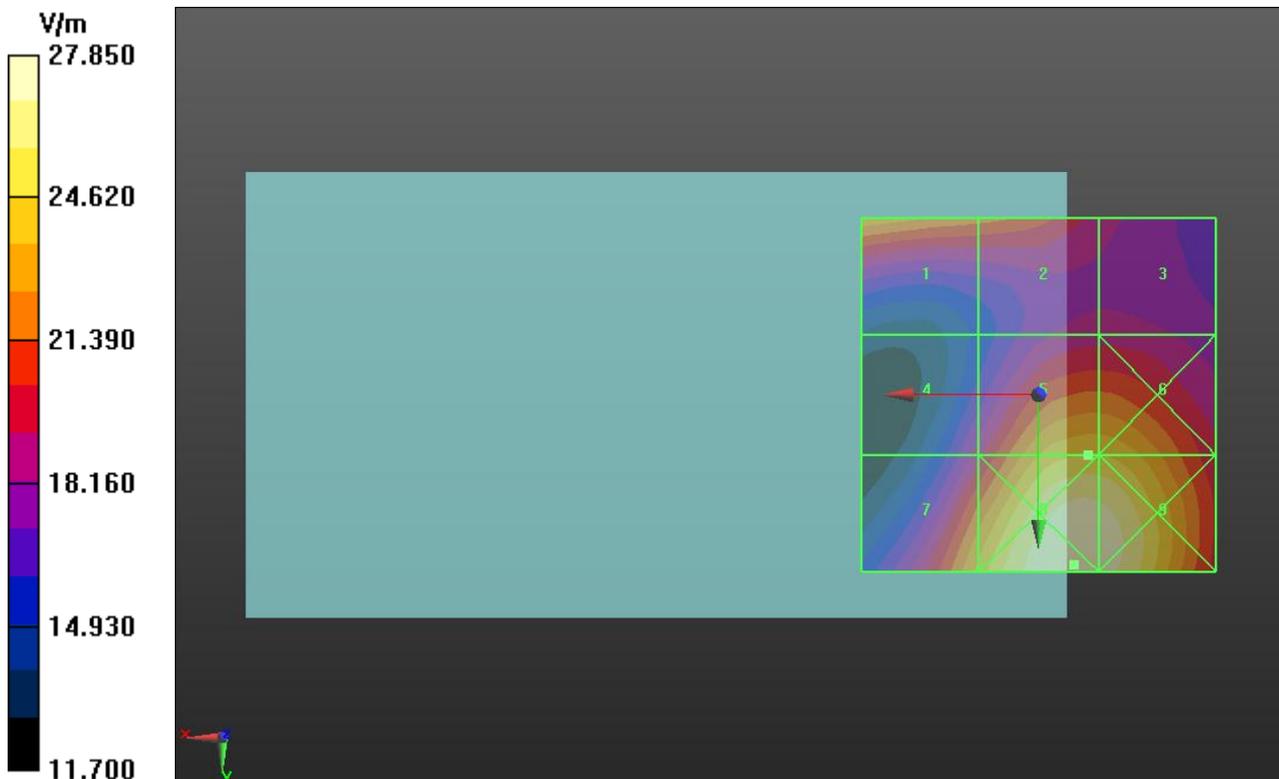
Grid 1 M4 27.37 dBV/m	Grid 2 M4 26.82 dBV/m	Grid 3 M4 25.51 dBV/m
Grid 4 M4 25.55 dBV/m	Grid 5 M4 27.86 dBV/m	Grid 6 M4 27.85 dBV/m
Grid 7 M4 27.57 dBV/m	Grid 8 M4 28.9 dBV/m	Grid 9 M4 28.82 dBV/m

Cursor:

Total = 28.90 dBV/m

E Category: M4

Location: -5, 24, 8.7 mm



HAC-RF Emission

Communication System: GPRS-FDD (TDMA, GMSK 1 slot); Frequency: 1880 MHz; Duty Cycle: 1:8.70964

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

PCS1900/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 = 20.77 V/m; Power Drift = -0.05 dB

Applied MIF = 3.60 dB

RF audio interference level = 29.20 dBV/m

Emission category: M4

MIF scaled E-field

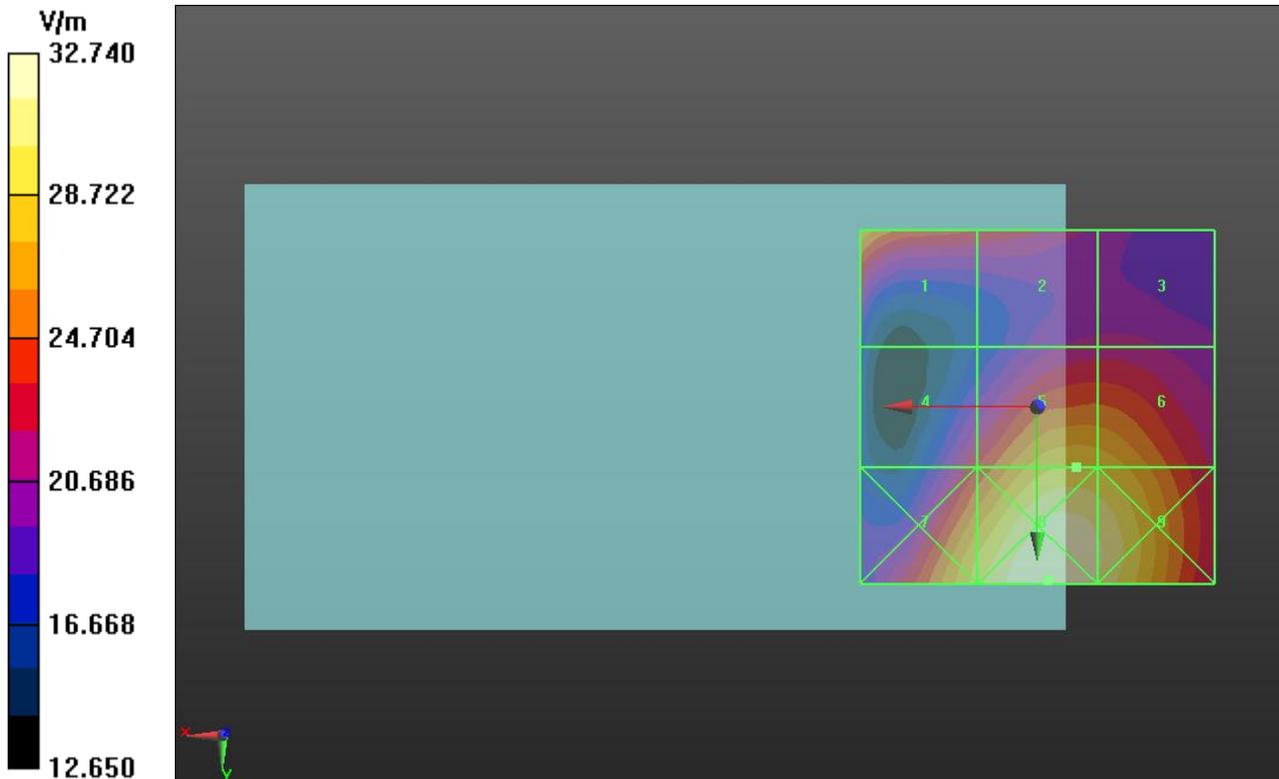
Grid 1 M4 28.78 dBV/m	Grid 2 M4 27.41 dBV/m	Grid 3 M4 26.58 dBV/m
Grid 4 M4 27.39 dBV/m	Grid 5 M4 29.2 dBV/m	Grid 6 M4 29.12 dBV/m
Grid 7 M4 29.38 dBV/m	Grid 8 M3 30.3 dBV/m	Grid 9 M3 30 dBV/m

Cursor:

Total = 30.30 dBV/m

E Category: M3

Location: -1.5, 24.5, 8.7 mm



HAC-RF Emission

Communication System: GPRS-FDD (TDMA, GMSK 1 slot); Frequency: 1909.8 MHz; Duty Cycle: 1:8.70964

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

PCS1900/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 = 22.70 V/m; Power Drift = -0.12 dB

Applied MIF = 3.60 dB

RF audio interference level = 30.06 dBV/m

Emission category: M3

MIF scaled E-field

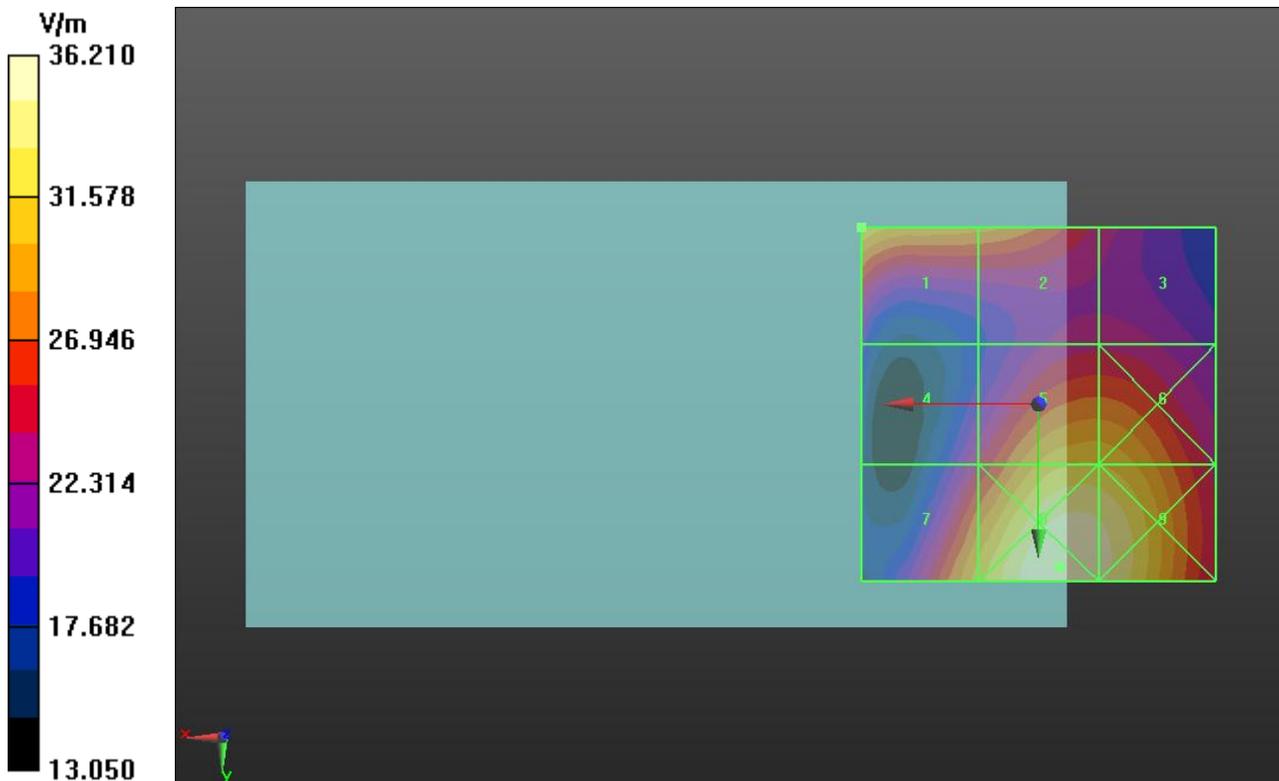
Grid 1 M3 30.06 dBV/m	Grid 2 M4 29.29 dBV/m	Grid 3 M4 27.43 dBV/m
Grid 4 M4 27.59 dBV/m	Grid 5 M3 30.04 dBV/m	Grid 6 M3 30 dBV/m
Grid 7 M4 29.83 dBV/m	Grid 8 M3 31.18 dBV/m	Grid 9 M3 30.98 dBV/m

Cursor:

Total = 31.18 dBV/m

E Category: M3

Location: -3, 23, 8.7 mm



HAC-RF Emission

Communication System: UMTS-FDD (WCDMA); Frequency: 1852.4 MHz; Duty Cycle: 1:2.18776

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

W-CDMA Band II/RMC Rel 99 ch 9662/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 = 27.21 V/m; Power Drift = -0.00 dB

Applied MIF = -20.49 dB

RF audio interference level = 7.45 dBV/m

Emission category: M4

MIF scaled E-field

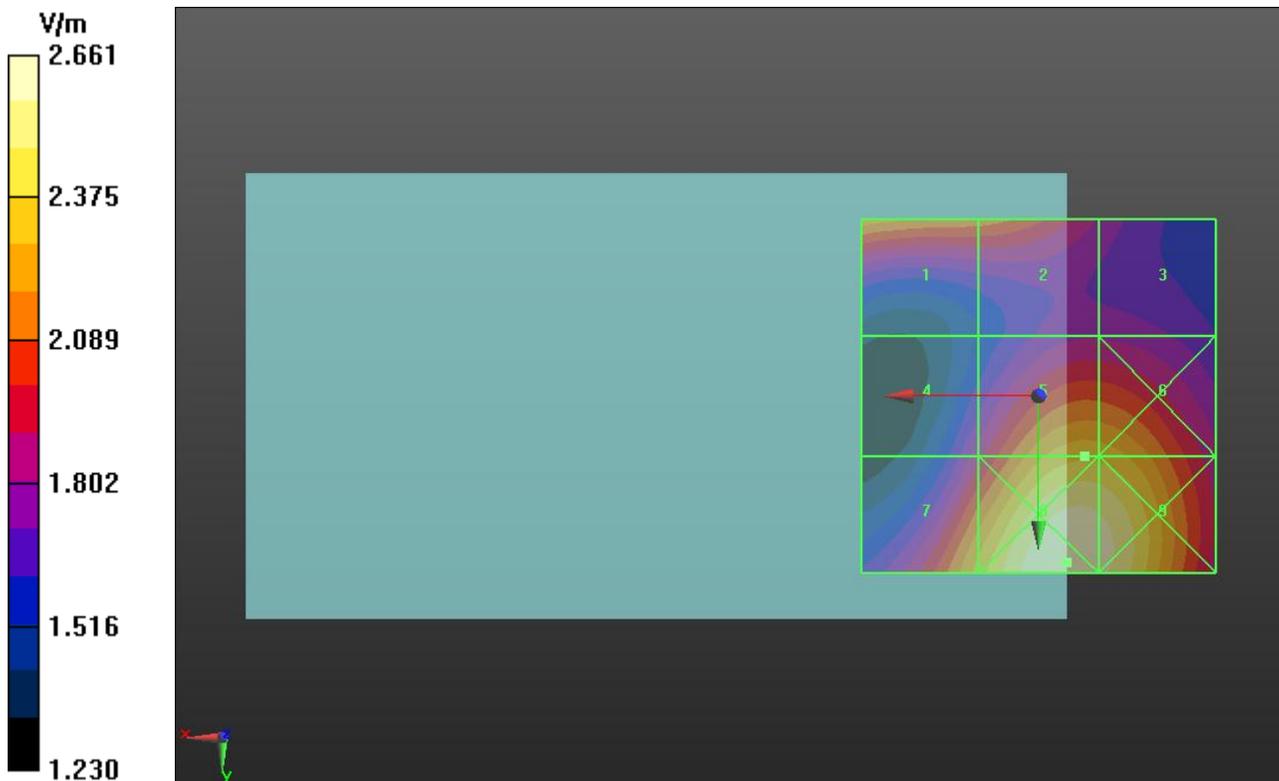
Grid 1 M4 7.06 dBV/m	Grid 2 M4 6.67 dBV/m	Grid 3 M4 5.1 dBV/m
Grid 4 M4 5.42 dBV/m	Grid 5 M4 7.45 dBV/m	Grid 6 M4 7.42 dBV/m
Grid 7 M4 7.34 dBV/m	Grid 8 M4 8.5 dBV/m	Grid 9 M4 8.36 dBV/m

Cursor:

Total = 8.50 dBV/m

E Category: M4

Location: -4, 23.5, 8.7 mm



HAC-RF Emission

Communication System: UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:2.18776

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

W-CDMA Band II/RMC Rel 99 ch 9400/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 = 30.86 V/m; Power Drift = 0.07 dB

Applied MIF = -20.49 dB

RF audio interference level = 8.77 dBV/m

Emission category: M4

MIF scaled E-field

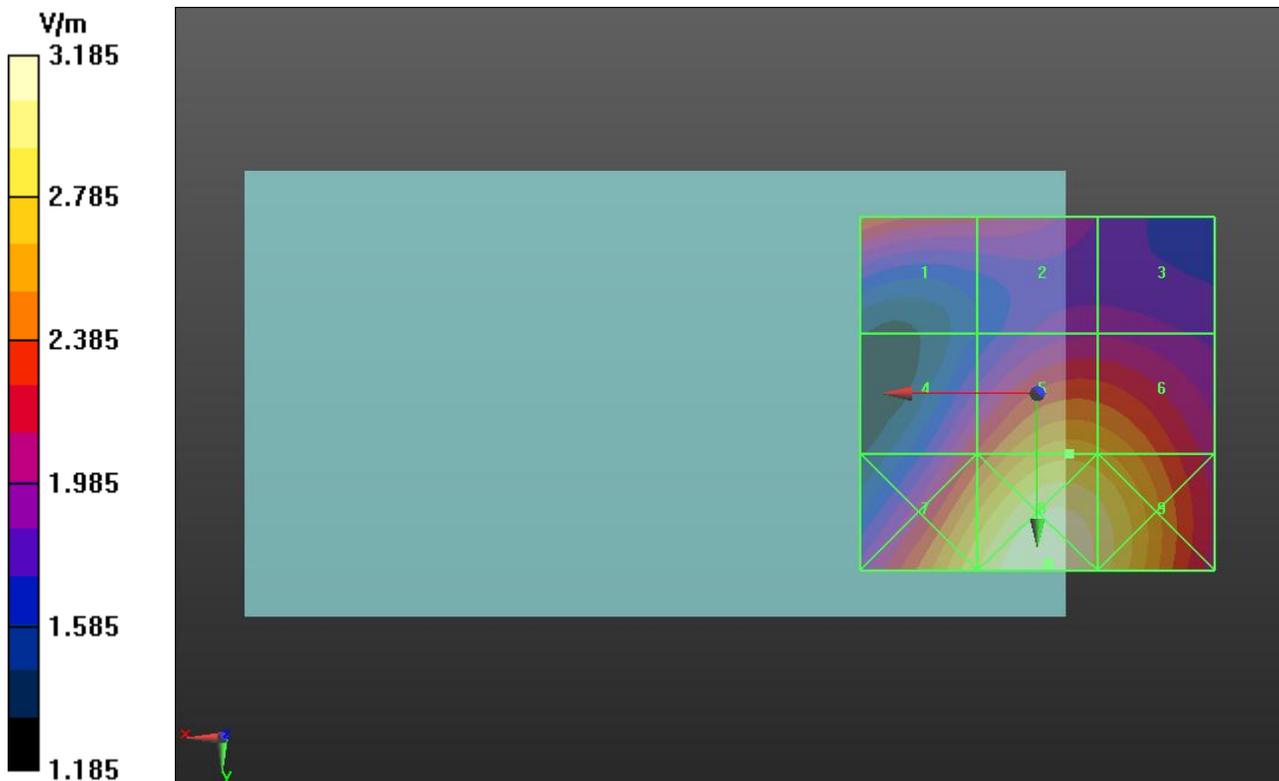
Grid 1 M4 7.7 dBV/m	Grid 2 M4 6.75 dBV/m	Grid 3 M4 5.9 dBV/m
Grid 4 M4 7.13 dBV/m	Grid 5 M4 8.77 dBV/m	Grid 6 M4 8.62 dBV/m
Grid 7 M4 9.29 dBV/m	Grid 8 M4 10.06 dBV/m	Grid 9 M4 9.62 dBV/m

Cursor:

Total = 10.06 dBV/m

E Category: M4

Location: -1.5, 24, 8.7 mm



HAC-RF Emission

Communication System: UMTS-FDD (WCDMA); Frequency: 1907.6 MHz; Duty Cycle: 1:2.18776

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

W-CDMA Band II/RMC Rel 99 ch 9538/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 = 30.21 V/m; Power Drift = -0.01 dB

Applied MIF = -20.49 dB

RF audio interference level = 8.63 dBV/m

Emission category: M4

MIF scaled E-field

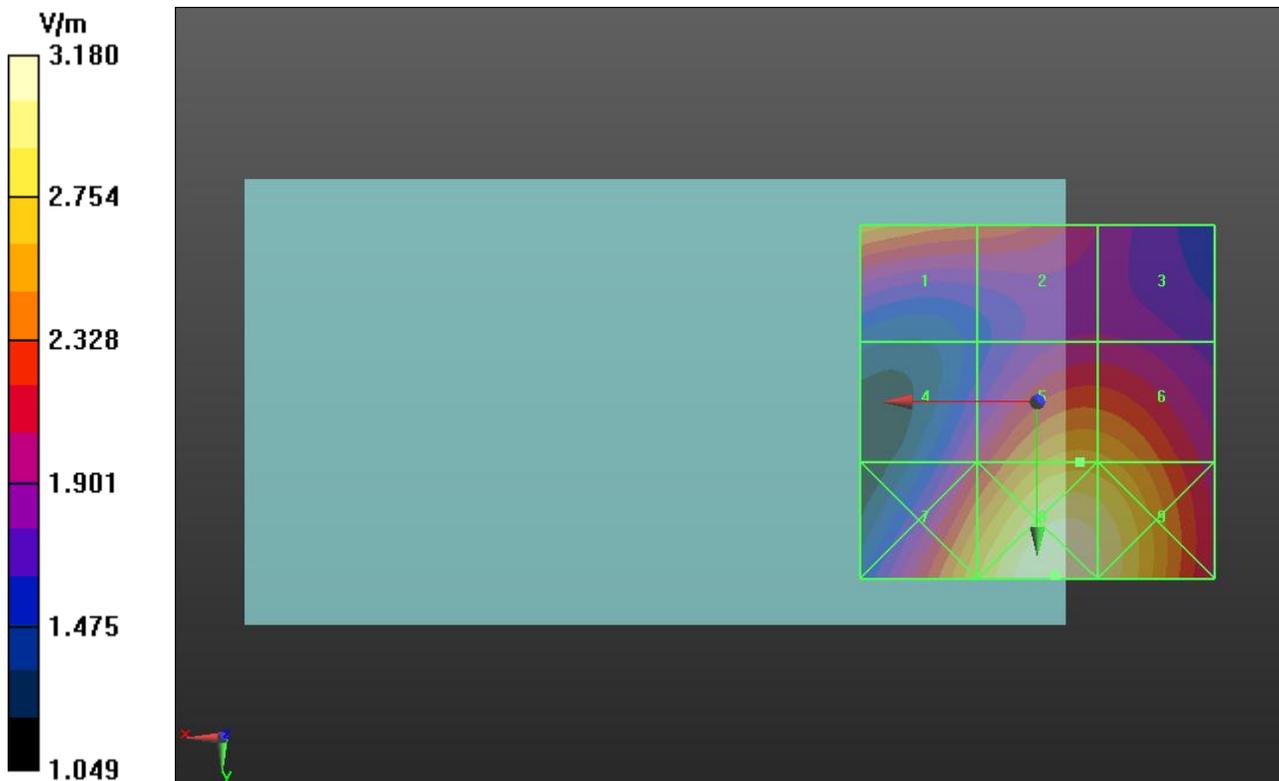
Grid 1 M4 8.18 dBV/m	Grid 2 M4 7.34 dBV/m	Grid 3 M4 5.75 dBV/m
Grid 4 M4 6.33 dBV/m	Grid 5 M4 8.63 dBV/m	Grid 6 M4 8.55 dBV/m
Grid 7 M4 8.8 dBV/m	Grid 8 M4 10.05 dBV/m	Grid 9 M4 9.73 dBV/m

Cursor:

Total = 10.05 dBV/m

E Category: M4

Location: -2.5, 24.5, 8.7 mm



HAC-RF Emission

Communication System: UMTS-FDD (WCDMA); Frequency: 1712.4 MHz; Duty Cycle: 1:2.18776

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

W-CDMA Band IV/RMC Rel 99 ch 1312/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 = 35.84 V/m; Power Drift = -0.06 dB

Applied MIF = -20.49 dB

RF audio interference level = 10.51 dBV/m

Emission category: M4

MIF scaled E-field

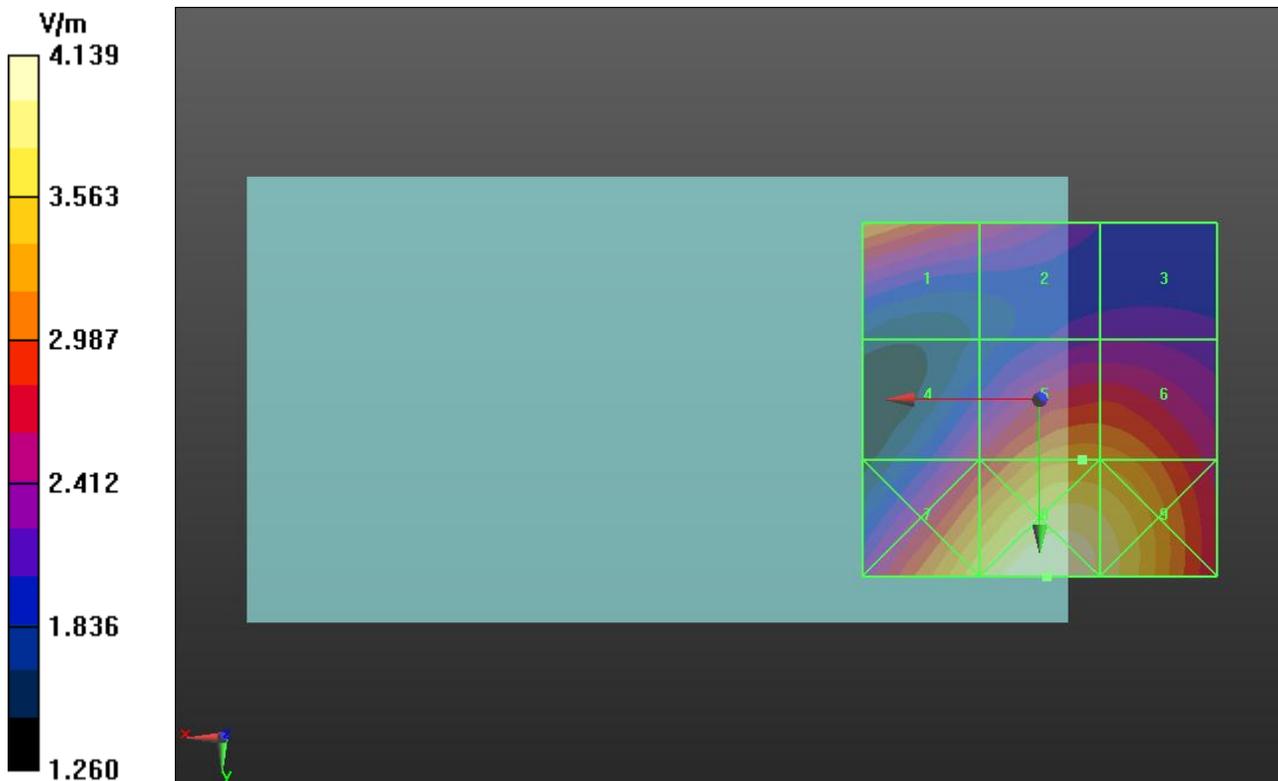
Grid 1 M4 10.23 dBV/m	Grid 2 M4 8.49 dBV/m	Grid 3 M4 6.93 dBV/m
Grid 4 M4 8.48 dBV/m	Grid 5 M4 10.51 dBV/m	Grid 6 M4 10.45 dBV/m
Grid 7 M4 11.44 dBV/m	Grid 8 M4 12.34 dBV/m	Grid 9 M4 11.86 dBV/m

Cursor:

Total = 12.34 dBV/m

E Category: M4

Location: -1, 25, 8.7 mm



HAC-RF Emission

Communication System: UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:2.18776

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

W-CDMA Band IV/RMC Rel 99 ch 1413/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 = 29.01 V/m; Power Drift = -0.16 dB

Applied MIF = -20.49 dB

RF audio interference level = 8.85 dBV/m

Emission category: M4

MIF scaled E-field

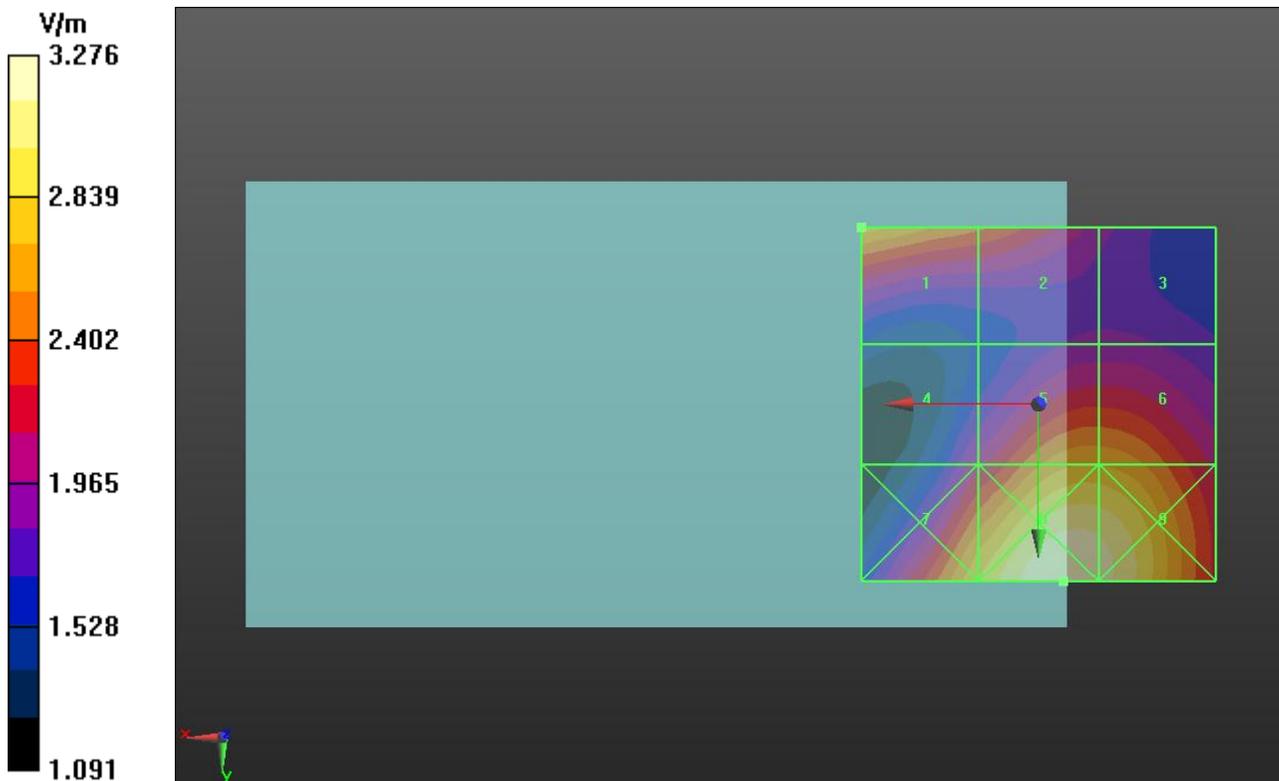
Grid 1 M4 8.85 dBV/m	Grid 2 M4 7.74 dBV/m	Grid 3 M4 5.57 dBV/m
Grid 4 M4 6.29 dBV/m	Grid 5 M4 8.63 dBV/m	Grid 6 M4 8.61 dBV/m
Grid 7 M4 9.09 dBV/m	Grid 8 M4 10.31 dBV/m	Grid 9 M4 10.11 dBV/m

Cursor:

Total = 10.31 dBV/m

E Category: M4

Location: -3.5, 25, 8.7 mm



HAC-RF Emission

Communication System: UMTS-FDD (WCDMA); Frequency: 1752.6 MHz; Duty Cycle: 1:2.18776

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

W-CDMA Band IV/RMC Rel 99 ch 1513/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 = 33.66 V/m; Power Drift = 0.11 dB

Applied MIF = -20.49 dB

RF audio interference level = 9.85 dBV/m

Emission category: M4

MIF scaled E-field

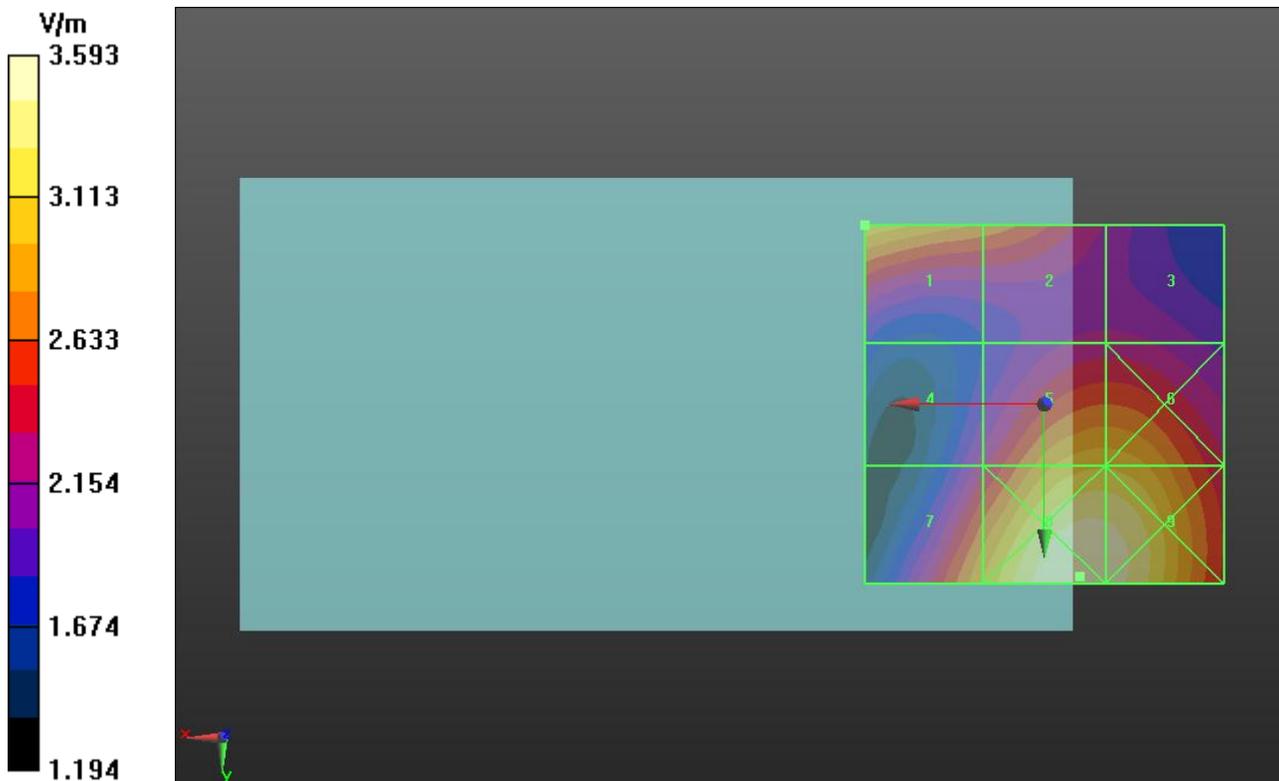
Grid 1 M4 9.85 dBV/m	Grid 2 M4 8.85 dBV/m	Grid 3 M4 6.94 dBV/m
Grid 4 M4 7.13 dBV/m	Grid 5 M4 9.8 dBV/m	Grid 6 M4 9.8 dBV/m
Grid 7 M4 9.5 dBV/m	Grid 8 M4 11.11 dBV/m	Grid 9 M4 11 dBV/m

Cursor:

Total = 11.11 dBV/m

E Category: M4

Location: -5, 24, 8.7 mm



HAC-RF Emission

Communication System: UMTS-FDD (WCDMA); Frequency: 826.4 MHz; Duty Cycle: 1:2.18776

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

W-CDMA Band V/RMC Rel 99 ch 4132/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 = 79.77 V/m; Power Drift = 0.02 dB

Applied MIF = -20.49 dB

RF audio interference level = 15.12 dBV/m

Emission category: M4

MIF scaled E-field

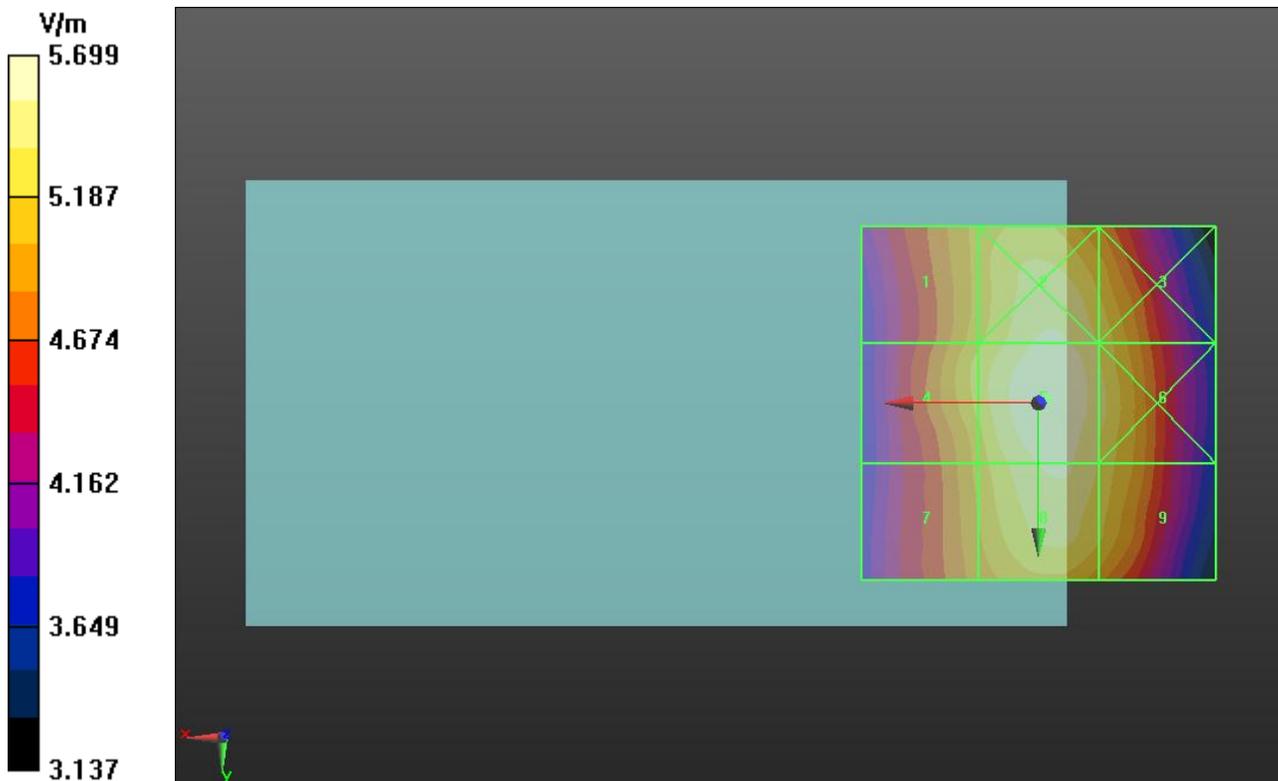
Grid 1 M4 14.25 dBV/m	Grid 2 M4 14.91 dBV/m	Grid 3 M4 14.56 dBV/m
Grid 4 M4 14.44 dBV/m	Grid 5 M4 15.12 dBV/m	Grid 6 M4 14.71 dBV/m
Grid 7 M4 14.13 dBV/m	Grid 8 M4 14.9 dBV/m	Grid 9 M4 14.56 dBV/m

Cursor:

Total = 15.12 dBV/m

E Category: M4

Location: -1, -0.5, 8.7 mm



HAC-RF Emission

Communication System: UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:2.18776

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

W-CDMA Band V/RMC Rel 99 ch 4183/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 = 85.53 V/m; Power Drift = -0.02 dB

Applied MIF = -20.49 dB

RF audio interference level = 15.70 dBV/m

Emission category: M4

MIF scaled E-field

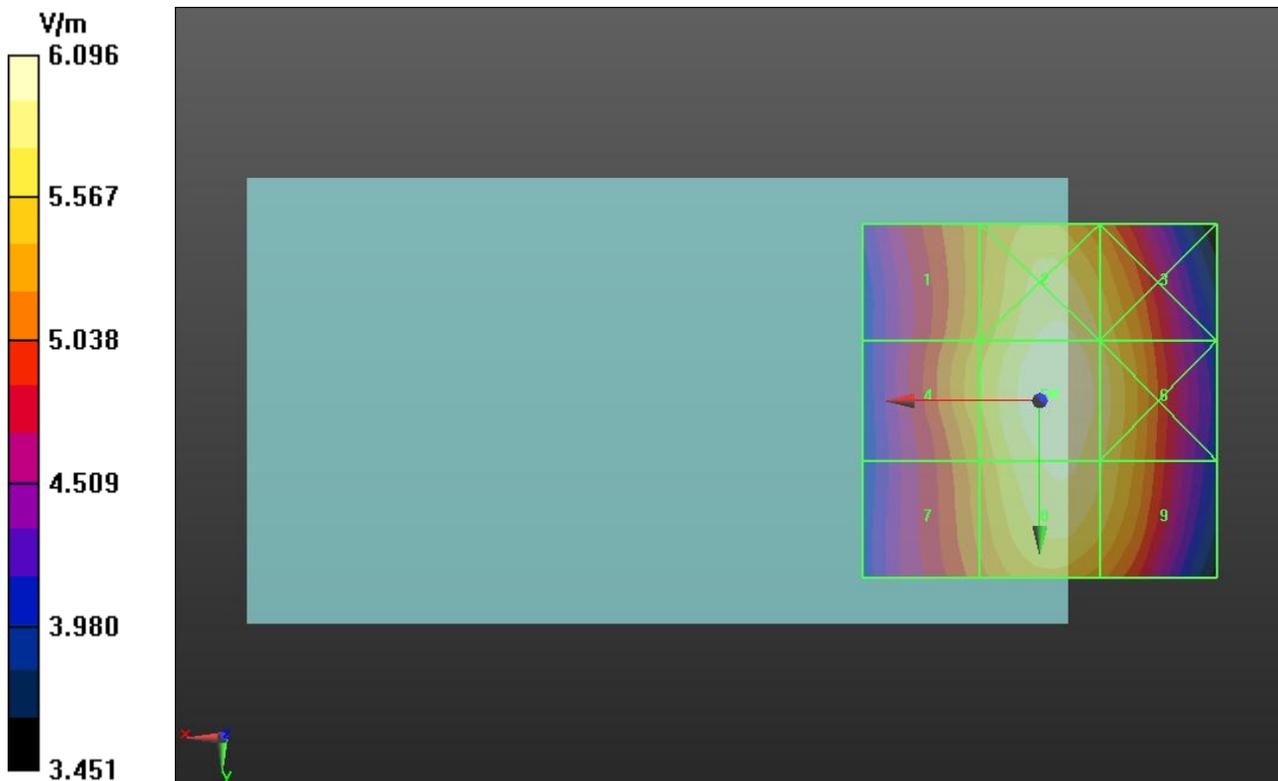
Grid 1 M4 14.73 dBV/m	Grid 2 M4 15.54 dBV/m	Grid 3 M4 15.21 dBV/m
Grid 4 M4 14.93 dBV/m	Grid 5 M4 15.7 dBV/m	Grid 6 M4 15.37 dBV/m
Grid 7 M4 14.62 dBV/m	Grid 8 M4 15.51 dBV/m	Grid 9 M4 15.25 dBV/m

Cursor:

Total = 15.70 dBV/m

E Category: M4

Location: -2, -1, 8.7 mm



HAC-RF Emission

Communication System: UMTS-FDD (WCDMA); Frequency: 846.6 MHz; Duty Cycle: 1:2.18776

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 6/20/2012;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1239; Calibrated: 6/6/2012
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

W-CDMA Band V/RMC Rel 99 ch 4233/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 = 83.07 V/m; Power Drift = 0.16 dB

Applied MIF = -20.49 dB

RF audio interference level = 15.54 dBV/m

Emission category: **M4**

MIF scaled E-field

Grid 1 M4 14.63 dBV/m	Grid 2 M4 15.36 dBV/m	Grid 3 M4 15.08 dBV/m
Grid 4 M4 14.83 dBV/m	Grid 5 M4 15.54 dBV/m	Grid 6 M4 15.26 dBV/m
Grid 7 M4 14.52 dBV/m	Grid 8 M4 15.39 dBV/m	Grid 9 M4 15.15 dBV/m

Cursor:

Total = 15.54 dBV/m

E Category: M4

Location: -3, -0.5, 8.7 mm

