



Appendix B. Plots of RF Emission Measurement

The plots are shown as follows.

#01 HAC_E_GSM850_Ch128**DUT: 2D2521**

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.70964

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2012-12-5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 78.37 V/m; Power Drift = -0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 39.03 dB V/m

Emission category: M4**MIF scaled E-field**

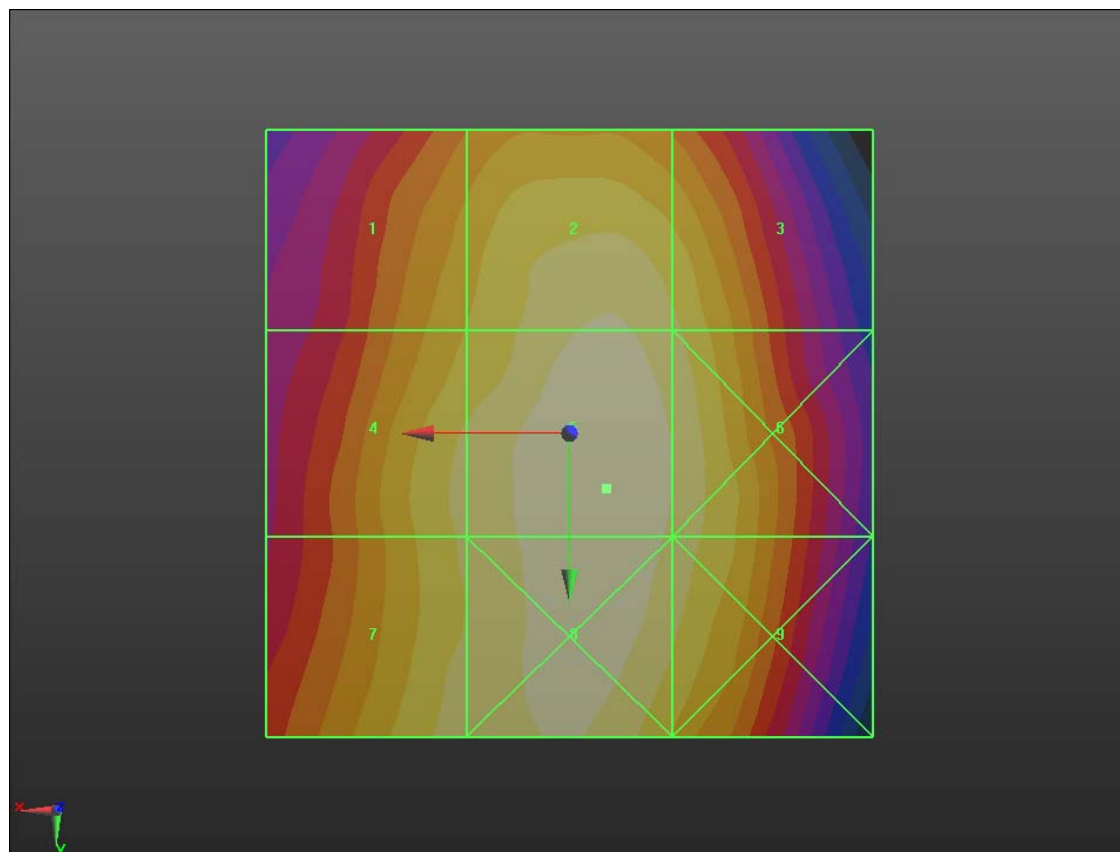
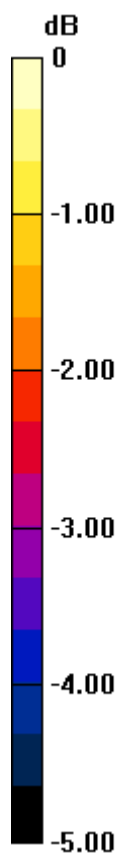
Grid 1 M4 38.05 dB V/m	Grid 2 M4 38.75 dB V/m	Grid 3 M4 38.45 dB V/m
Grid 4 M4 38.49 dB V/m	Grid 5 M4 39.04 dB V/m	Grid 6 M4 38.69 dB V/m
Grid 7 M4 38.53 dB V/m	Grid 8 M4 38.98 dB V/m	Grid 9 M4 38.63 dB V/m

Cursor:

Total = 39.04 dB V/m

E Category: M4

Location: -3, 4.5, 8.7 mm



0 dB = 89.49 V/m = 39.04 dB V/m

#02 HAC_E_GSM850_Ch189

DUT: 2D2521

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2012-12-5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 72.38 V/m; Power Drift = 0.03 dB

Applied MIF = 3.63 dB

RF audio interference level = 38.93 dB V/m

Emission category: M4

MIF scaled E-field

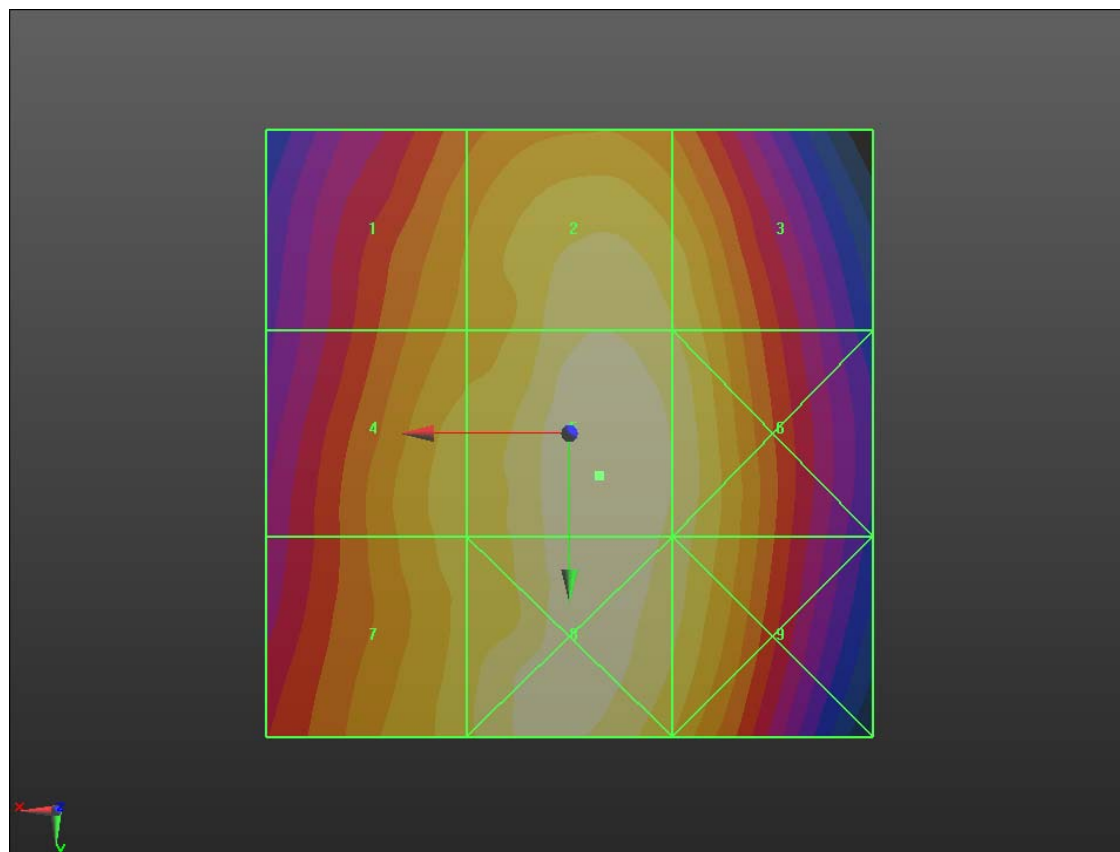
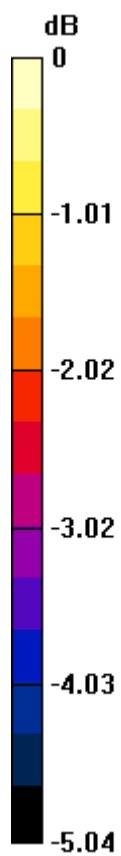
Grid 1 M4 37.72 dB V/m	Grid 2 M4 38.6 dB V/m	Grid 3 M4 38.3 dB V/m
Grid 4 M4 38.19 dB V/m	Grid 5 M4 38.93 dB V/m	Grid 6 M4 38.59 dB V/m
Grid 7 M4 38.18 dB V/m	Grid 8 M4 38.87 dB V/m	Grid 9 M4 38.49 dB V/m

Cursor:

Total = 38.93 dB V/m

E Category: M4

Location: -2.5, 3.5, 8.7 mm



0 dB = 88.43 V/m = 38.93 dB V/m

#03 HAC_E_GSM850_Ch251**DUT: 2D2521**

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.70964

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2012-12-5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 76.21 V/m; Power Drift = 0.09 dB

Applied MIF = 3.63 dB

RF audio interference level = 39.01 dB V/m

Emission category: M4

MIF scaled E-field

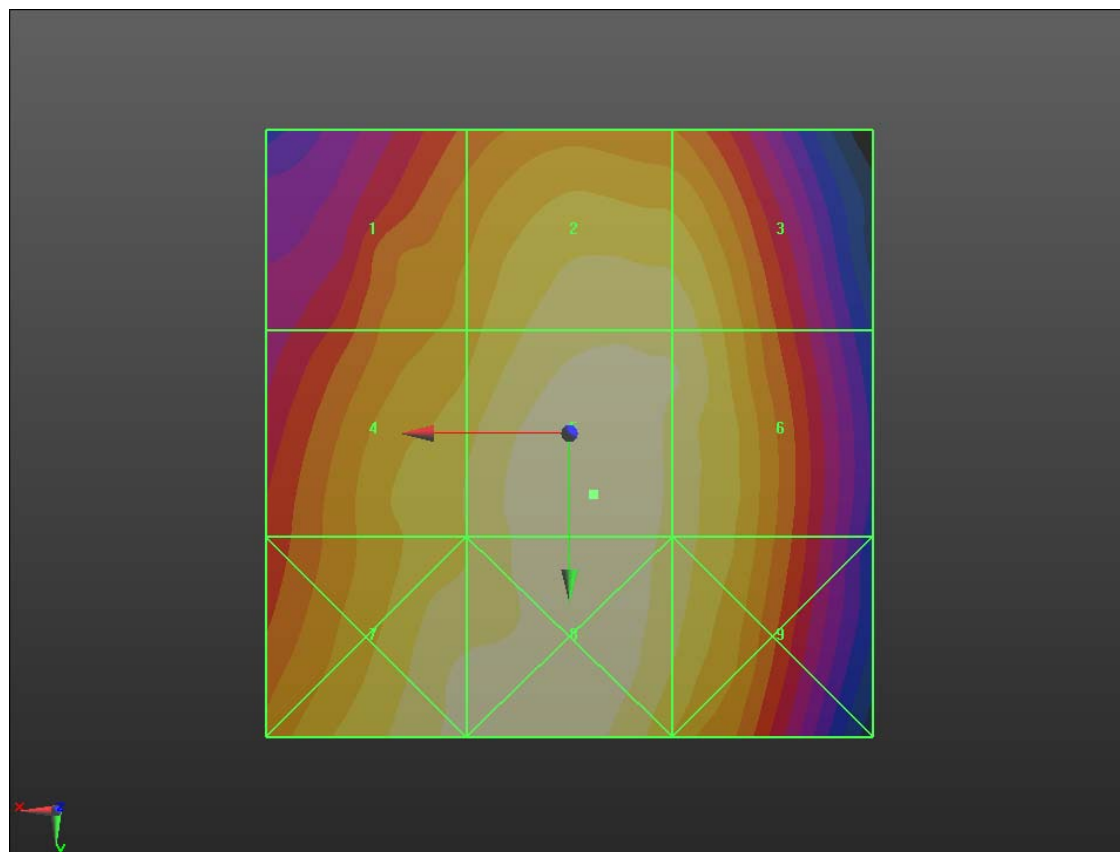
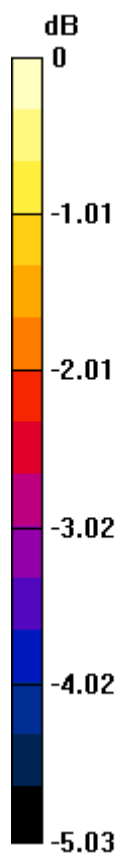
Grid 1 M4 37.86 dB V/m	Grid 2 M4 38.62 dB V/m	Grid 3 M4 38.57 dB V/m
Grid 4 M4 38.37 dB V/m	Grid 5 M4 39.01 dB V/m	Grid 6 M4 38.7 dB V/m
Grid 7 M4 38.75 dB V/m	Grid 8 M4 38.96 dB V/m	Grid 9 M4 38.56 dB V/m

Cursor:

Total = 39.01 dB V/m

E Category: M4

Location: -2, 5, 8.7 mm



0 dB = 89.21 V/m = 39.01 dB V/m

#04 HAC_E_GSM1900_Ch512

DUT: 2D2521

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2012-12-5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 14.05 V/m; Power Drift = -0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.50 dB V/m

Emission category: M3

MIF scaled E-field

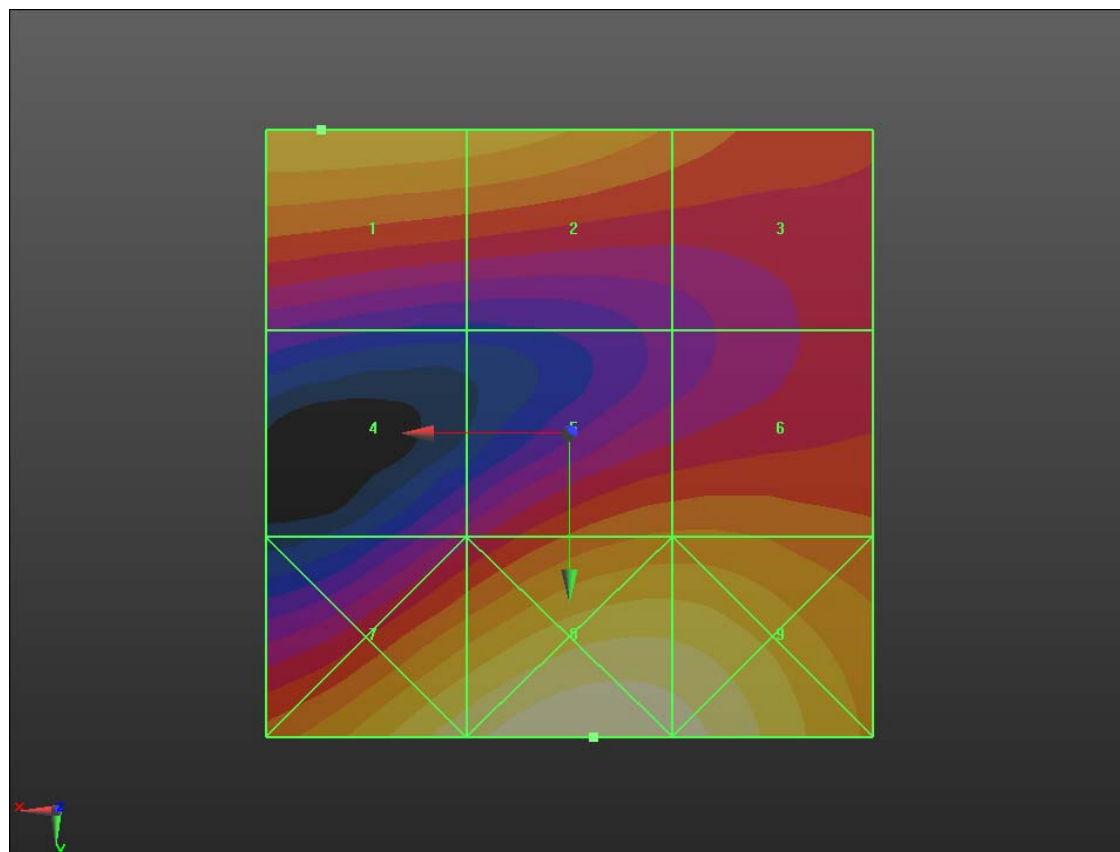
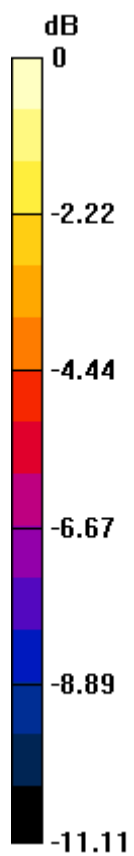
Grid 1 M3 31.5 dB V/m	Grid 2 M3 31.29 dB V/m	Grid 3 M4 29.9 dB V/m
Grid 4 M4 27.47 dB V/m	Grid 5 M3 30.15 dB V/m	Grid 6 M3 30.19 dB V/m
Grid 7 M3 32.74 dB V/m	Grid 8 M3 33.72 dB V/m	Grid 9 M3 33.36 dB V/m

Cursor:

Total = 33.72 dB V/m

E Category: M3

Location: -2, 25, 8.7 mm



0 dB = 48.51 V/m = 33.72 dB V/m

#05 HAC_E_GSM1900_Ch661

DUT: 2D2521

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2012-12-5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 17.04 V/m; Power Drift = 0.05 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.42 dB V/m

Emission category: M3

MIF scaled E-field

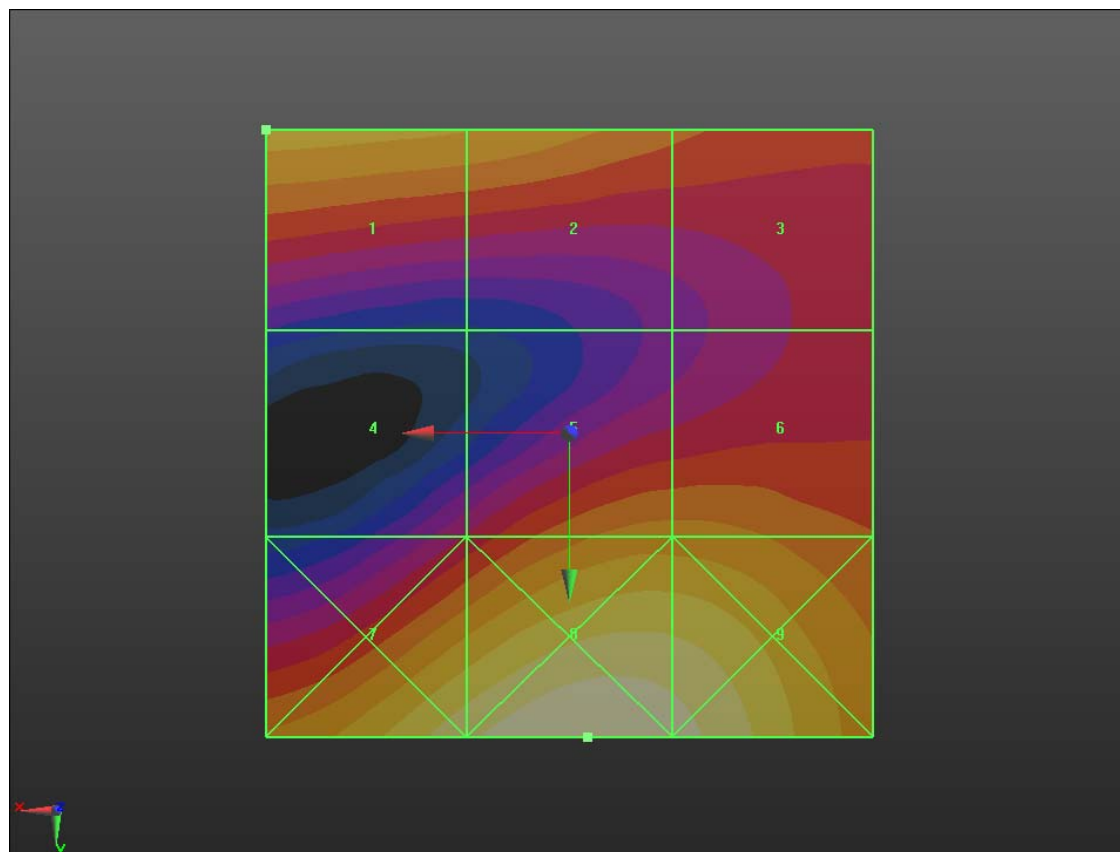
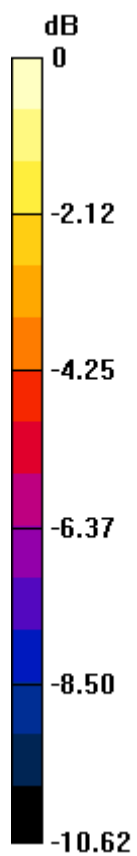
Grid 1 M3 31.42 dB V/m	Grid 2 M3 31.11 dB V/m	Grid 3 M4 29.9 dB V/m
Grid 4 M4 28.35 dB V/m	Grid 5 M3 30.72 dB V/m	Grid 6 M3 30.71 dB V/m
Grid 7 M3 33.02 dB V/m	Grid 8 M3 33.91 dB V/m	Grid 9 M3 33.52 dB V/m

Cursor:

Total = 33.91 dB V/m

E Category: M3

Location: -1.5, 25, 8.7 mm



0 dB = 49.60 V/m = 33.91 dB V/m

#06 HAC_E_GSM1900_Ch810

DUT: 2D2521

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2476; ConvF(1, 1, 1); Calibrated: 2012-12-12;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2012-12-5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 17.97 V/m; Power Drift = -0.06 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.62 dB V/m

Emission category: M3

MIF scaled E-field

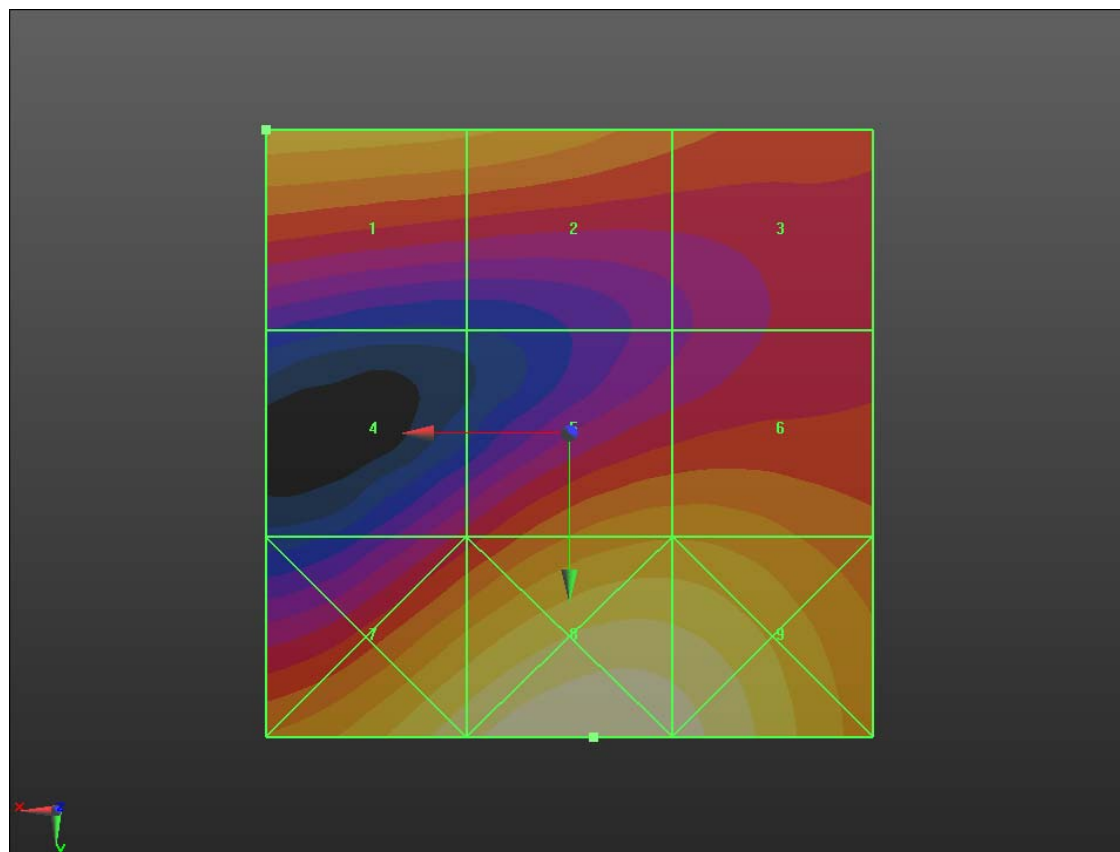
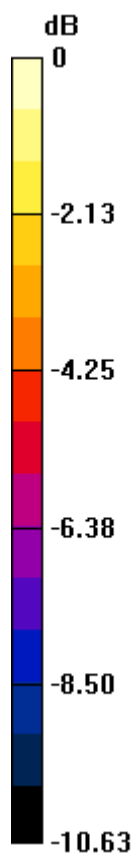
Grid 1 M3 31.62 dB V/m	Grid 2 M3 31.34 dB V/m	Grid 3 M3 30.12 dB V/m
Grid 4 M4 28.69 dB V/m	Grid 5 M3 31.15 dB V/m	Grid 6 M3 31.15 dB V/m
Grid 7 M3 33.12 dB V/m	Grid 8 M3 34.04 dB V/m	Grid 9 M3 33.68 dB V/m

Cursor:

Total = 34.04 dB V/m

E Category: M3

Location: -2, 25, 8.7 mm



0 dB = 50.36 V/m = 34.04 dB V/m