

#01_HAC_E_GSM850_GSM Voice_Ch128

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.6896

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4047; ConvF(1, 1, 1) @ 824.2 MHz; Calibrated: 2019/1/30
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn914; Calibrated: 2019/6/20
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

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 = 60.36 V/m; Power Drift = 0.09 dB

Applied MIF = 3.63 dB

RF audio interference level = 36.34 dBV/m

Emission category: M4

MIF scaled E-field

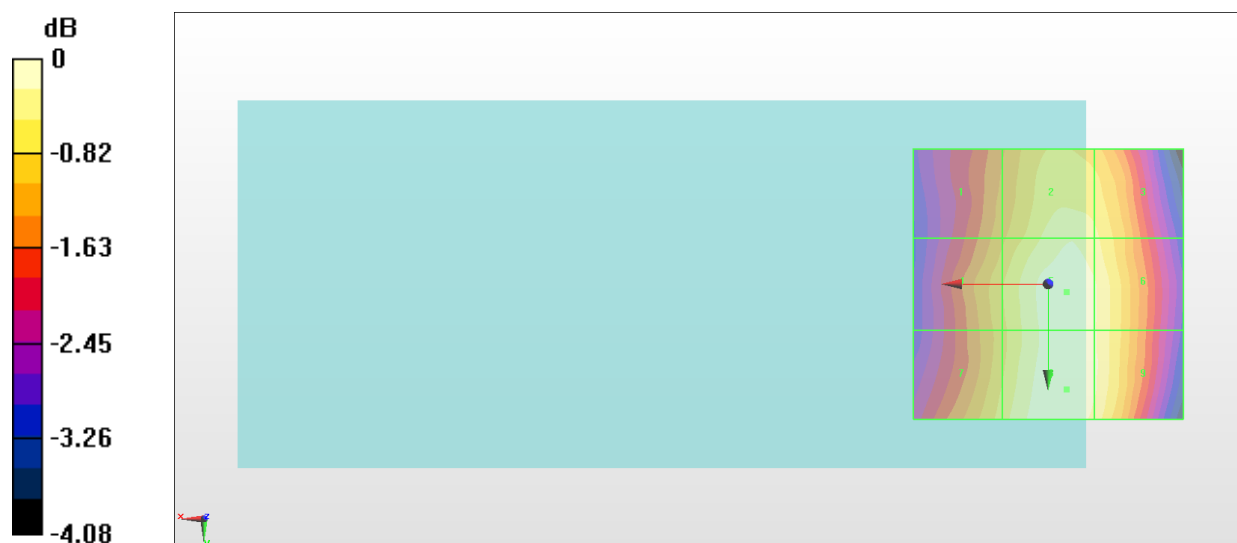
Grid 1 M4 35.2 dBV/m	Grid 2 M4 36.06 dBV/m	Grid 3 M4 35.88 dBV/m
Grid 4 M4 35.51 dBV/m	Grid 5 M4 36.29 dBV/m	Grid 6 M4 36.11 dBV/m
Grid 7 M4 35.66 dBV/m	Grid 8 M4 36.34 dBV/m	Grid 9 M4 36.13 dBV/m

Cursor:

Total = 36.34 dBV/m

E Category: M4

Location: -3.5, 19.5, 8.7 mm



0 dB = 65.60 V/m = 36.34 dBV/m

#02_HAC_E_GSM850_GSM Voice_Ch189

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 836.4 MHz; Duty Cycle: 1:8.6896

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4047; ConvF(1, 1, 1) @ 836.4 MHz; Calibrated: 2019/1/30
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn914; Calibrated: 2019/6/20
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

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 = 57.51 V/m; Power Drift = -0.10 dB

Applied MIF = 3.63 dB

RF audio interference level = 35.80 dBV/m

Emission category: M4

MIF scaled E-field

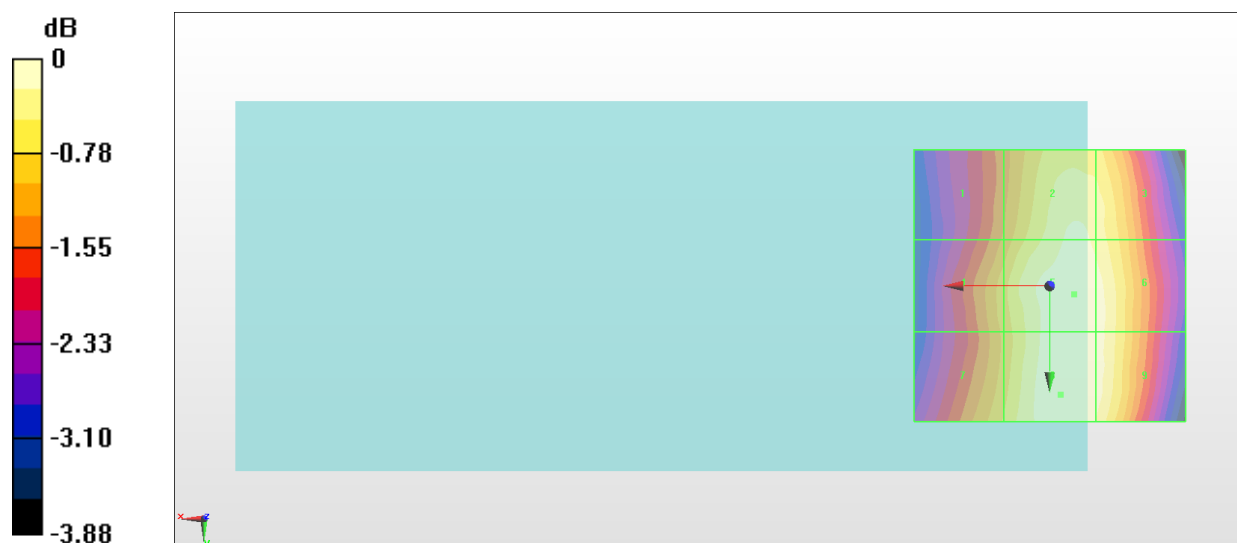
Grid 1 M4 34.57 dBV/m	Grid 2 M4 35.62 dBV/m	Grid 3 M4 35.48 dBV/m
Grid 4 M4 34.94 dBV/m	Grid 5 M4 35.79 dBV/m	Grid 6 M4 35.7 dBV/m
Grid 7 M4 35.05 dBV/m	Grid 8 M4 35.8 dBV/m	Grid 9 M4 35.68 dBV/m

Cursor:

Total = 35.80 dBV/m

E Category: M4

Location: -2, 20, 8.7 mm



0 dB = 61.66 V/m = 35.80 dBV/m

#03_HAC_E_GSM850_GSM Voice_Ch251

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 848.8 MHz; Duty Cycle: 1:8.6896

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4047; ConvF(1, 1, 1) @ 848.8 MHz; Calibrated: 2019/1/30
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn914; Calibrated: 2019/6/20
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

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 = 53.31 V/m; Power Drift = 0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 35.36 dBV/m

Emission category: M4

MIF scaled E-field

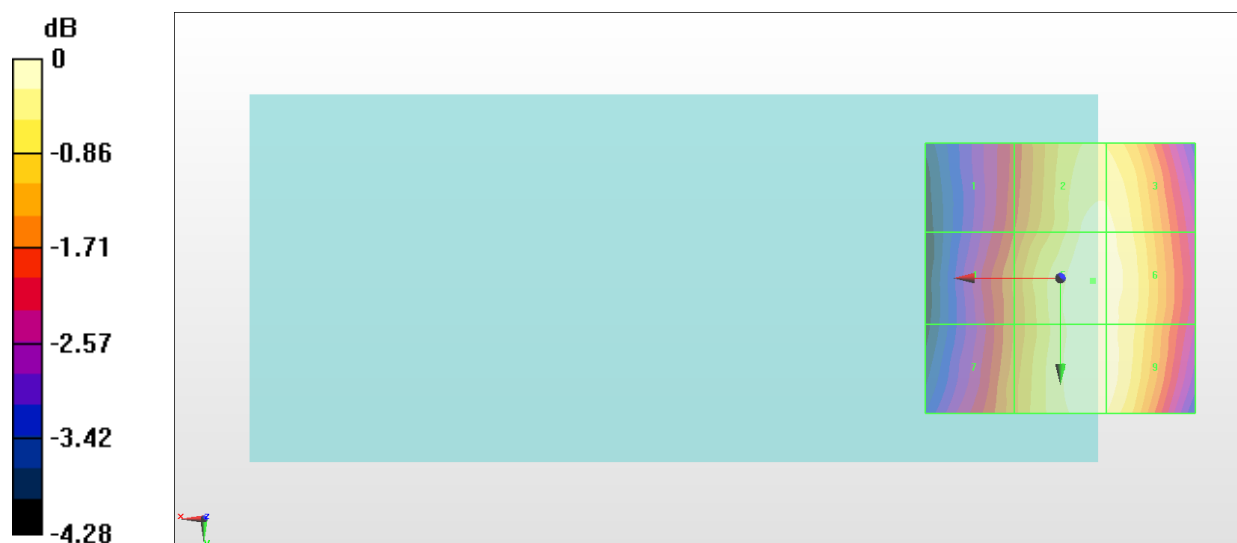
Grid 1 M4 33.66 dBV/m	Grid 2 M4 35.2 dBV/m	Grid 3 M4 35.17 dBV/m
Grid 4 M4 34.01 dBV/m	Grid 5 M4 35.36 dBV/m	Grid 6 M4 35.29 dBV/m
Grid 7 M4 34.15 dBV/m	Grid 8 M4 35.32 dBV/m	Grid 9 M4 35.26 dBV/m

Cursor:

Total = 35.36 dBV/m

E Category: M4

Location: -6, 0.5, 8.7 mm



0 dB = 58.63 V/m = 35.36 dBV/m

#04_HAC_E_GSM1900_GSM Voice_Ch512

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.6896

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4047; ConvF(1, 1, 1) @ 1850.2 MHz; Calibrated: 2019/1/30
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn914; Calibrated: 2019/6/20
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

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 = 8.711 V/m; Power Drift = 0.16 dB

Applied MIF = 3.63 dB

RF audio interference level = 22.75 dBV/m

Emission category: M4

MIF scaled E-field

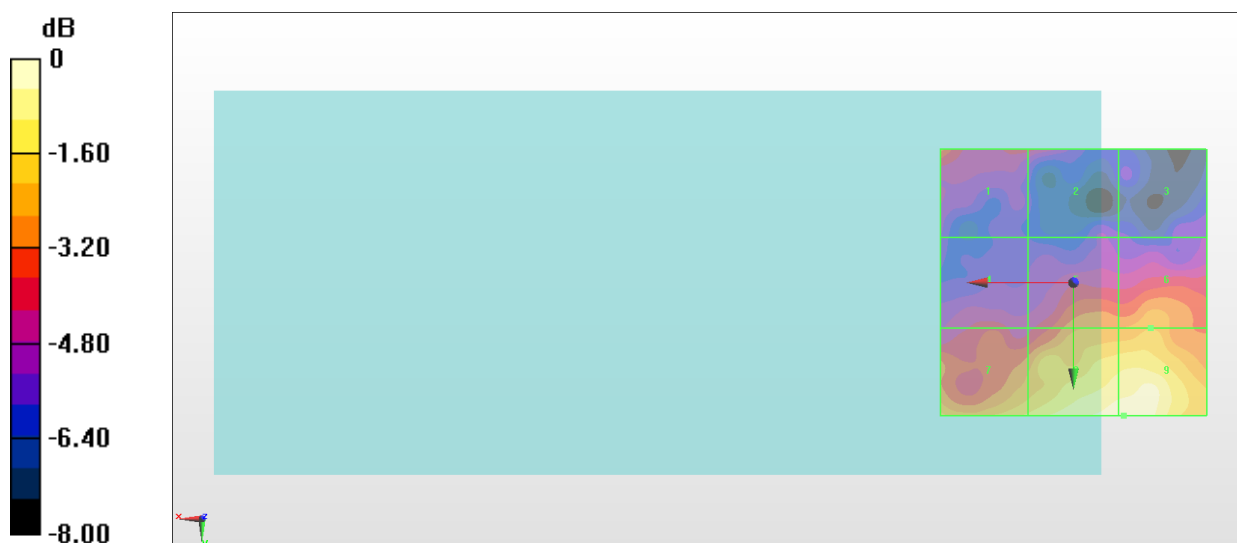
Grid 1 M4 19.83 dBV/m	Grid 2 M4 18.73 dBV/m	Grid 3 M4 17.46 dBV/m
Grid 4 M4 18.92 dBV/m	Grid 5 M4 20.1 dBV/m	Grid 6 M4 20.58 dBV/m
Grid 7 M4 21.31 dBV/m	Grid 8 M4 22.7 dBV/m	Grid 9 M4 22.75 dBV/m

Cursor:

Total = 22.75 dBV/m

E Category: M4

Location: -9.5, 25, 8.7 mm



0 dB = 13.72 V/m = 22.75 dBV/m

#05_HAC_E_GSM1900_GSM Voice_Ch661

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4047; ConvF(1, 1, 1) @ 1880 MHz; Calibrated: 2019/1/30
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn914; Calibrated: 2019/6/20
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

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 = 8.994 V/m; Power Drift = -0.07 dB

Applied MIF = 3.63 dB

RF audio interference level = 22.96 dBV/m

Emission category: M4

MIF scaled E-field

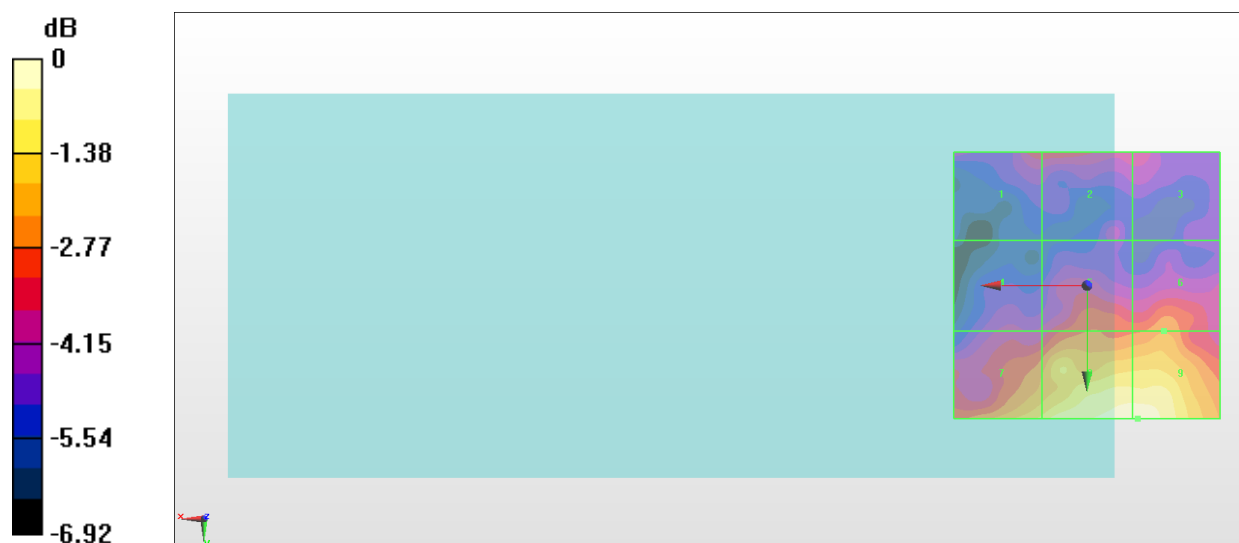
Grid 1 M4 19.75 dBV/m	Grid 2 M4 19.79 dBV/m	Grid 3 M4 19.22 dBV/m
Grid 4 M4 19.02 dBV/m	Grid 5 M4 20.23 dBV/m	Grid 6 M4 20.59 dBV/m
Grid 7 M4 21.75 dBV/m	Grid 8 M4 22.93 dBV/m	Grid 9 M4 22.96 dBV/m

Cursor:

Total = 22.96 dBV/m

E Category: M4

Location: -9.5, 25, 8.7 mm



0 dB = 14.06 V/m = 22.96 dBV/m

#06_HAC_E_GSM1900_GSM Voice_Ch810

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.6896

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4047; ConvF(1, 1, 1) @ 1909.8 MHz; Calibrated: 2019/1/30
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn914; Calibrated: 2019/6/20
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

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 = 9.277 V/m; Power Drift = 0.07 dB

Applied MIF = 3.63 dB

RF audio interference level = 22.02 dBV/m

Emission category: M4

MIF scaled E-field

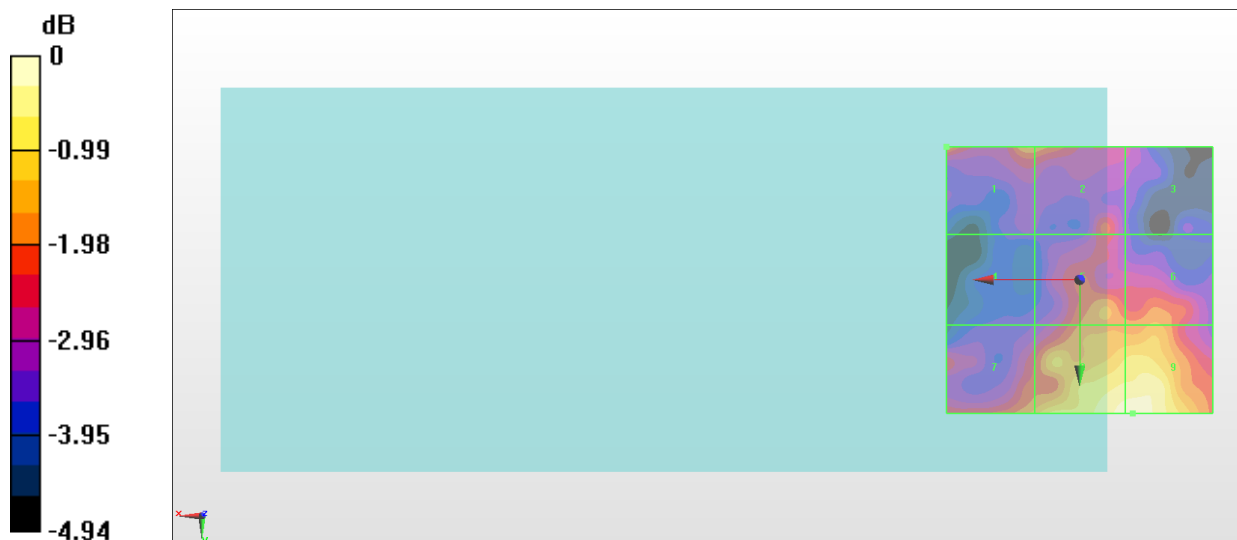
Grid 1 M4 20.55 dBV/m	Grid 2 M4 20.48 dBV/m	Grid 3 M4 19.21 dBV/m
Grid 4 M4 18.74 dBV/m	Grid 5 M4 20.46 dBV/m	Grid 6 M4 20.46 dBV/m
Grid 7 M4 20.53 dBV/m	Grid 8 M4 21.96 dBV/m	Grid 9 M4 22.02 dBV/m

Cursor:

Total = 22.02 dBV/m

E Category: M4

Location: -10, 25, 8.7 mm



0 dB = 12.62 V/m = 22.02 dBV/m

#07_HAC_E_LTE Band 41_20M_QPSK_1_49_Ch39750

Communication System: LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2506 MHz; Duty Cycle: 1:8.33681

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4047; ConvF(1, 1, 1) @ 2506 MHz; Calibrated: 2019/1/30
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2019/5/21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

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 = 10.00 V/m; Power Drift = -0.03 dB

Applied MIF = -1.62 dB

RF audio interference level = 19.80 dBV/m

Emission category: M4

MIF scaled E-field

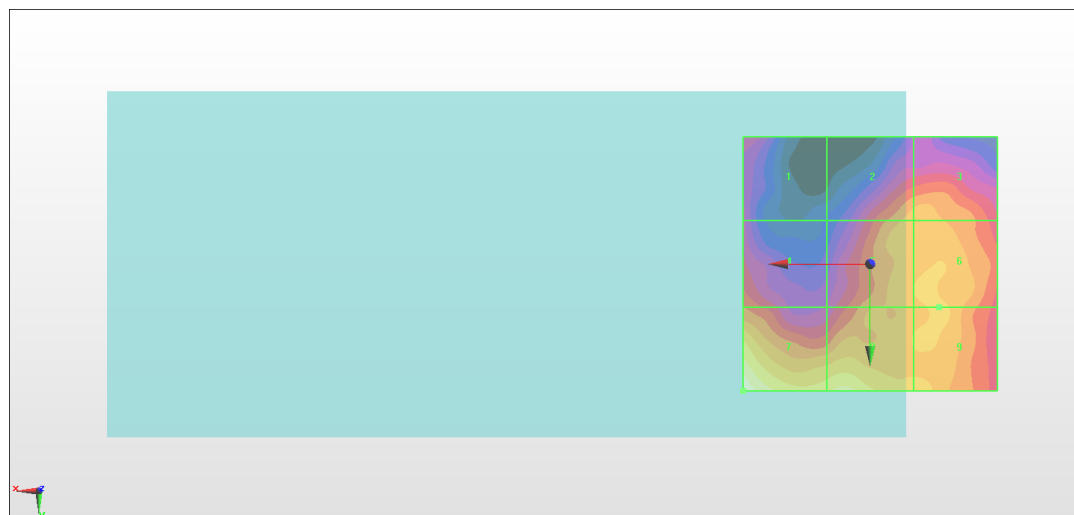
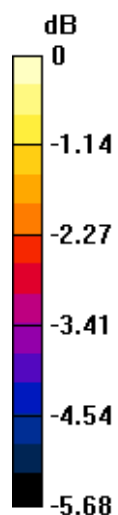
Grid 1 M4 16.85 dBV/m	Grid 2 M4 18.16 dBV/m	Grid 3 M4 18.26 dBV/m
Grid 4 M4 17.57 dBV/m	Grid 5 M4 18.28 dBV/m	Grid 6 M4 18.36 dBV/m
Grid 7 M4 19.8 dBV/m	Grid 8 M4 19.18 dBV/m	Grid 9 M4 18.59 dBV/m

Cursor:

Total = 19.80 dBV/m

E Category: M4

Location: 25, 25, 8.7 mm



0 dB = 9.768 V/m = 19.80 dBV/m

#08_HAC_E_LTE Band 41_20M_QPSK_1_49_Ch40185

Communication System: LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2549.5 MHz; Duty Cycle: 1:8.33681

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4047; ConvF(1, 1, 1) @ 2549.5 MHz; Calibrated: 2019/1/30
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2019/5/21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

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 = 9.060 V/m; Power Drift = 0.06 dB

Applied MIF = -1.62 dB

RF audio interference level = 19.55 dBV/m

Emission category: M4

MIF scaled E-field

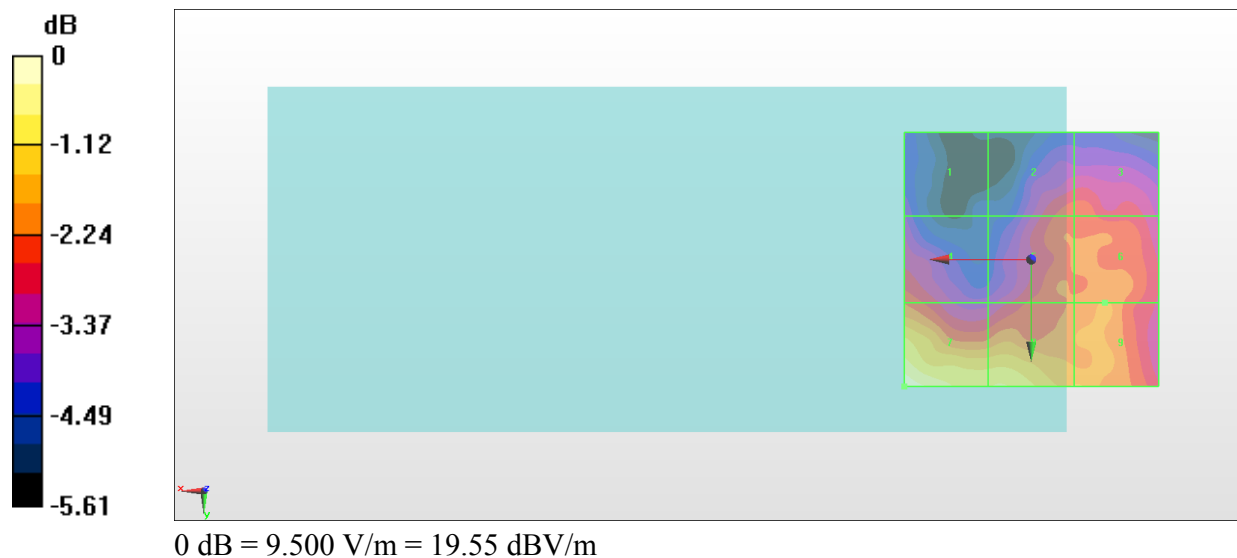
Grid 1 M4 15.96 dBV/m	Grid 2 M4 17.26 dBV/m	Grid 3 M4 17.29 dBV/m
Grid 4 M4 17.29 dBV/m	Grid 5 M4 17.42 dBV/m	Grid 6 M4 17.73 dBV/m
Grid 7 M4 19.55 dBV/m	Grid 8 M4 18.86 dBV/m	Grid 9 M4 18.13 dBV/m

Cursor:

Total = 19.55 dBV/m

E Category: M4

Location: 25, 25, 8.7 mm



#09_HAC_E_LTE Band 41_20M_QPSK_1_49_Ch40620

Communication System: LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2593 MHz; Duty Cycle: 1:8.33681

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4047; ConvF(1, 1, 1) @ 2593 MHz; Calibrated: 2019/1/30
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2019/5/21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

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 = 10.80 V/m; Power Drift = -0.09 dB

Applied MIF = -1.62 dB

RF audio interference level = 19.53 dBV/m

Emission category: M4

MIF scaled E-field

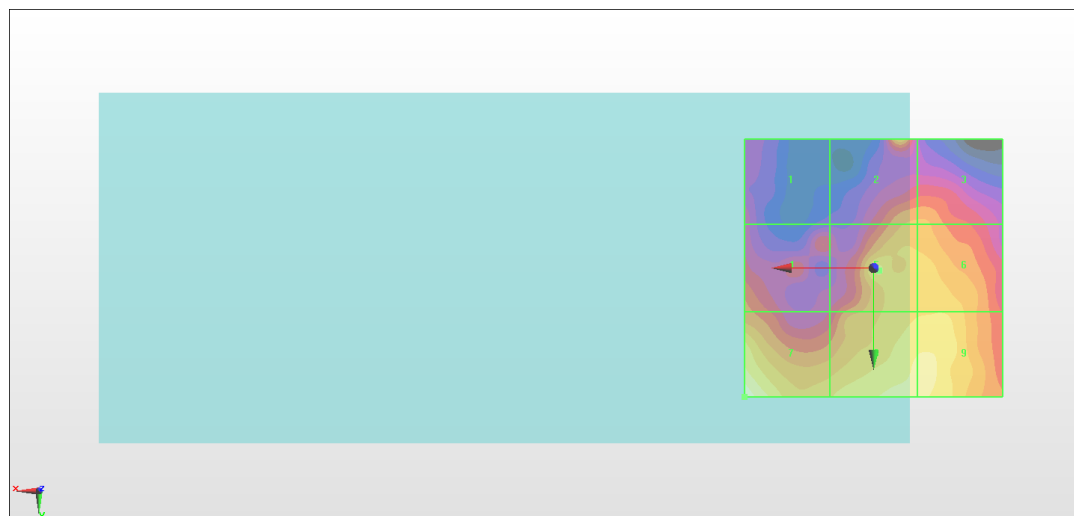
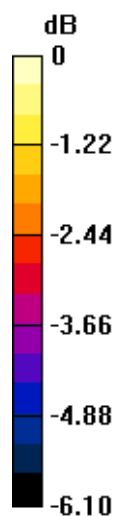
Grid 1 M4 16.25 dBV/m	Grid 2 M4 17.92 dBV/m	Grid 3 M4 17.62 dBV/m
Grid 4 M4 17.27 dBV/m	Grid 5 M4 18.4 dBV/m	Grid 6 M4 18.31 dBV/m
Grid 7 M4 19.53 dBV/m	Grid 8 M4 18.92 dBV/m	Grid 9 M4 18.95 dBV/m

Cursor:

Total = 19.53 dBV/m

E Category: M4

Location: 25, 25, 8.7 mm



0 dB = 9.472 V/m = 19.53 dBV/m

#10_HAC_E_LTE Band 41_20M_QPSK_1_49_Ch41055

Communication System: LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2636.5 MHz; Duty Cycle: 1:8.33681

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4047; ConvF(1, 1, 1) @ 2636.5 MHz; Calibrated: 2019/1/30
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2019/5/21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

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 = 9.440 V/m; Power Drift = -0.10 dB

Applied MIF = -1.62 dB

RF audio interference level = 18.04 dBV/m

Emission category: M4

MIF scaled E-field

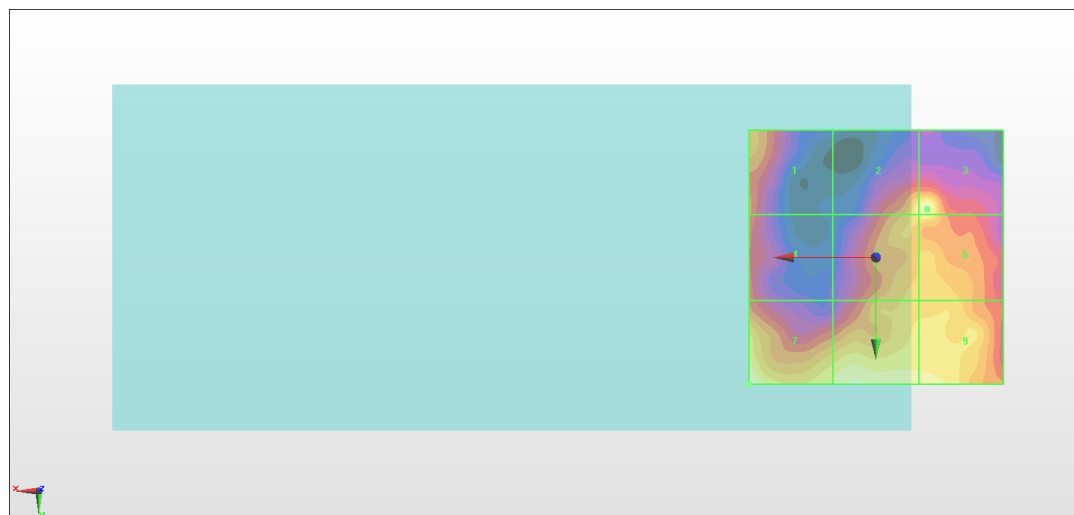
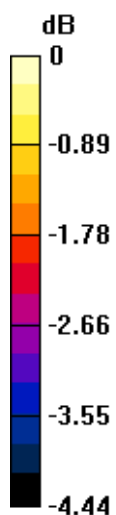
Grid 1 M4 16.77 dBV/m	Grid 2 M4 17.52 dBV/m	Grid 3 M4 17.84 dBV/m
Grid 4 M4 16.36 dBV/m	Grid 5 M4 17.39 dBV/m	Grid 6 M4 17.61 dBV/m
Grid 7 M4 18.04 dBV/m	Grid 8 M4 17.82 dBV/m	Grid 9 M4 17.72 dBV/m

Cursor:

Total = 18.04 dBV/m

E Category: M4

Location: 25, 25, 8.7 mm



0 dB = 7.983 V/m = 18.04 dBV/m

#11_HAC_E_LTE Band 41_20M_QPSK_1_49_Ch41490

Communication System: LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2680 MHz; Duty Cycle: 1:8.33681

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

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4047; ConvF(1, 1, 1) @ 2680 MHz; Calibrated: 2019/1/30
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2019/5/21
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

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 = 9.253 V/m; Power Drift = -0.12 dB

Applied MIF = -1.62 dB

RF audio interference level = 18.40 dBV/m

Emission category: M4

MIF scaled E-field

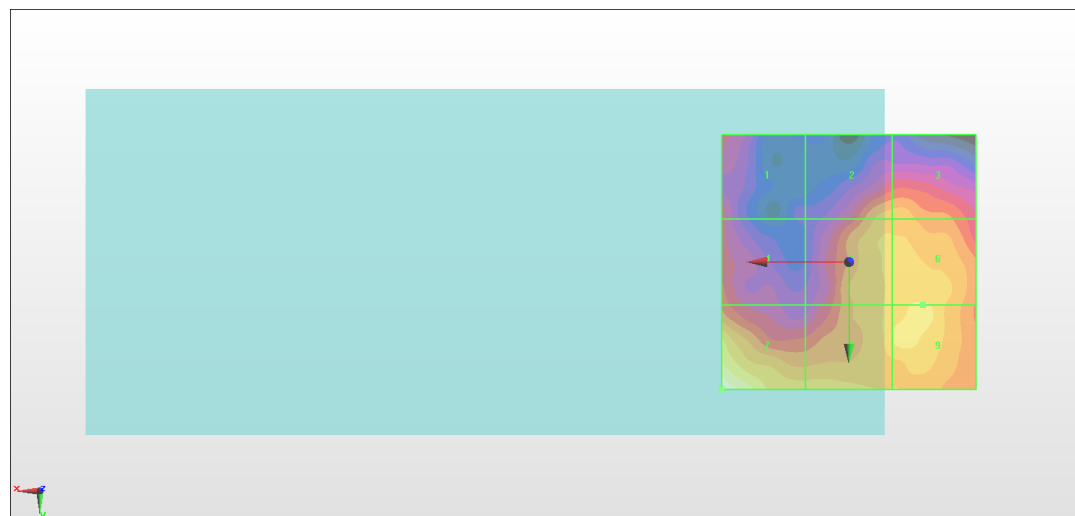
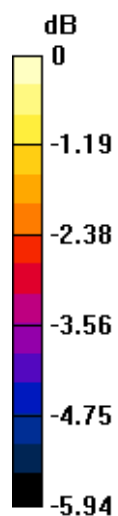
Grid 1 M4 15.5 dBV/m	Grid 2 M4 16.71 dBV/m	Grid 3 M4 16.74 dBV/m
Grid 4 M4 15.95 dBV/m	Grid 5 M4 16.99 dBV/m	Grid 6 M4 17.31 dBV/m
Grid 7 M4 18.4 dBV/m	Grid 8 M4 17.23 dBV/m	Grid 9 M4 17.46 dBV/m

Cursor:

Total = 18.40 dBV/m

E Category: M4

Location: 25, 25, 8.7 mm



0 dB = 8.315 V/m = 18.40 dBV/m