

#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, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C

DASY5 Configuration

- Probe: ER3DV6 - SN2302; ConvF(1, 1, 1); Calibrated: 2014/6/18;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn495; Calibrated: 2014/5/19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch128/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 = 72.10 V/m; Power Drift = -0.05 dB

Applied MIF = 3.63 dB

RF audio interference level = 39.01 dBV/m

Emission category: M4

MIF scaled E-field

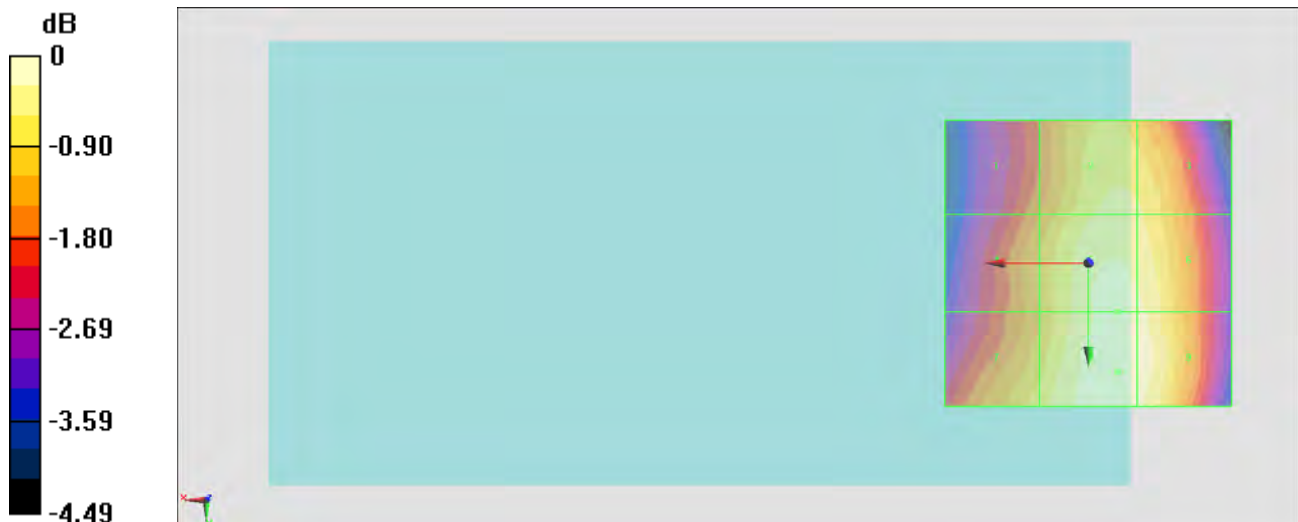
Grid 1 M4 37.53 dBV/m	Grid 2 M4 38.52 dBV/m	Grid 3 M4 38.47 dBV/m
Grid 4 M4 37.91 dBV/m	Grid 5 M4 38.87 dBV/m	Grid 6 M4 38.81 dBV/m
Grid 7 M4 38.31 dBV/m	Grid 8 M4 39.01 dBV/m	Grid 9 M4 38.94 dBV/m

Cursor:

Total = 39.01 dBV/m

E Category: M4

Location: -5, 19, 8.7 mm



$$0 \text{ dB} = 89.18 \text{ V/m} = 39.01 \text{ dBV/m}$$

#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, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C

DASY5 Configuration

- Probe: ER3DV6 - SN2302; ConvF(1, 1, 1); Calibrated: 2014/6/18;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn495; Calibrated: 2014/5/19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch189/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 = 72.99 V/m; Power Drift = -0.00 dB

Applied MIF = 3.63 dB

RF audio interference level = 39.23 dBV/m

Emission category: M4

MIF scaled E-field

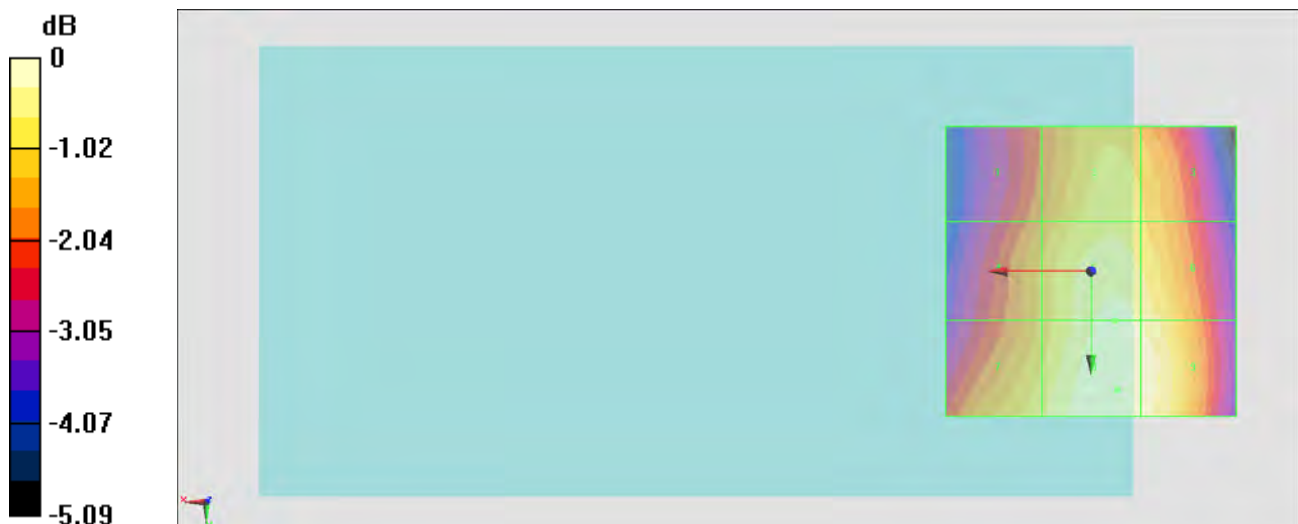
Grid 1 M4 37.56 dBV/m	Grid 2 M4 38.48 dBV/m	Grid 3 M4 38.29 dBV/m
Grid 4 M4 37.98 dBV/m	Grid 5 M4 38.98 dBV/m	Grid 6 M4 38.87 dBV/m
Grid 7 M4 38.52 dBV/m	Grid 8 M4 39.23 dBV/m	Grid 9 M4 39.15 dBV/m

Cursor:

Total = 39.23 dBV/m

E Category: M4

Location: -4.5, 20.5, 8.7 mm



$$0 \text{ dB} = 91.47 \text{ V/m} = 39.23 \text{ dBV/m}$$

#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, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Ambient Temperature : 23.5 °C

DASY5 Configuration

- Probe: ER3DV6 - SN2302; ConvF(1, 1, 1); Calibrated: 2014/6/18;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn495; Calibrated: 2014/5/19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch251/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 = 64.88 V/m; Power Drift = -0.09 dB
 Applied MIF = 3.63 dB
 RF audio interference level = 38.32 dBV/m

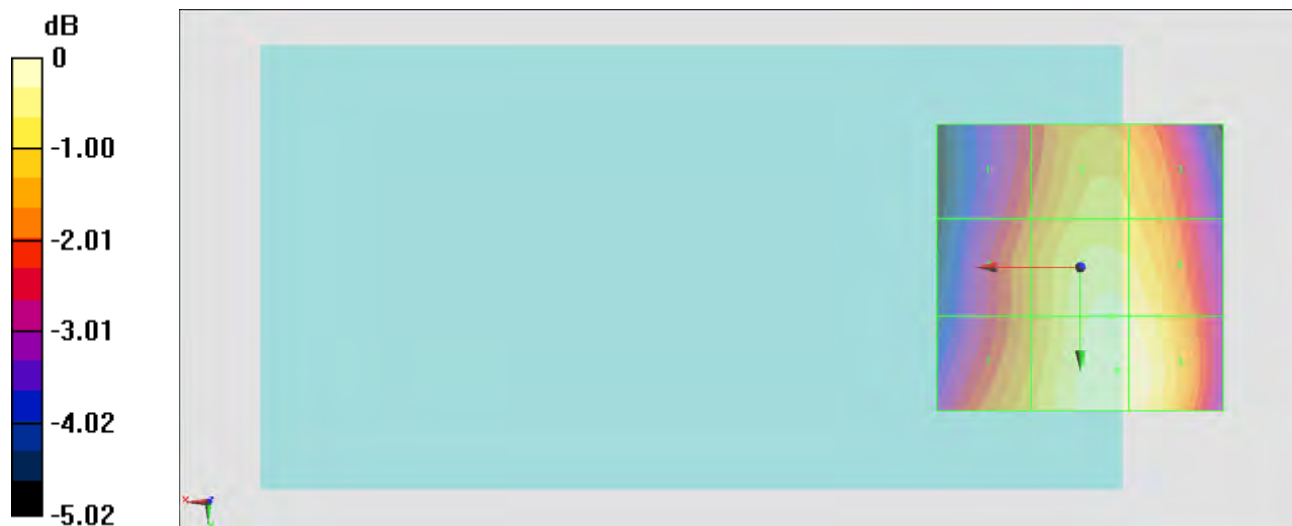
Emission category: M4

MIF scaled E-field

Grid 1 M4 36.48 dBV/m	Grid 2 M4 37.49 dBV/m	Grid 3 M4 37.41 dBV/m
Grid 4 M4 36.88 dBV/m	Grid 5 M4 38.12 dBV/m	Grid 6 M4 38.03 dBV/m
Grid 7 M4 37.28 dBV/m	Grid 8 M4 38.32 dBV/m	Grid 9 M4 38.31 dBV/m

Cursor:

Total = 38.32 dBV/m
 E Category: M4
 Location: -6.5, 18, 8.7 mm



$$0 \text{ dB} = 82.45 \text{ V/m} = 38.32 \text{ dBV/m}$$

#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: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.5 °C

DASY5 Configuration

- Probe: ER3DV6 - SN2302; ConvF(1, 1, 1); Calibrated: 2014/6/18;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn495; Calibrated: 2014/5/19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch512/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 = 13.64 V/m; Power Drift = -0.05 dB

Applied MIF = 3.63 dB

RF audio interference level = 29.42 dBV/m

Emission category: M4

MIF scaled E-field

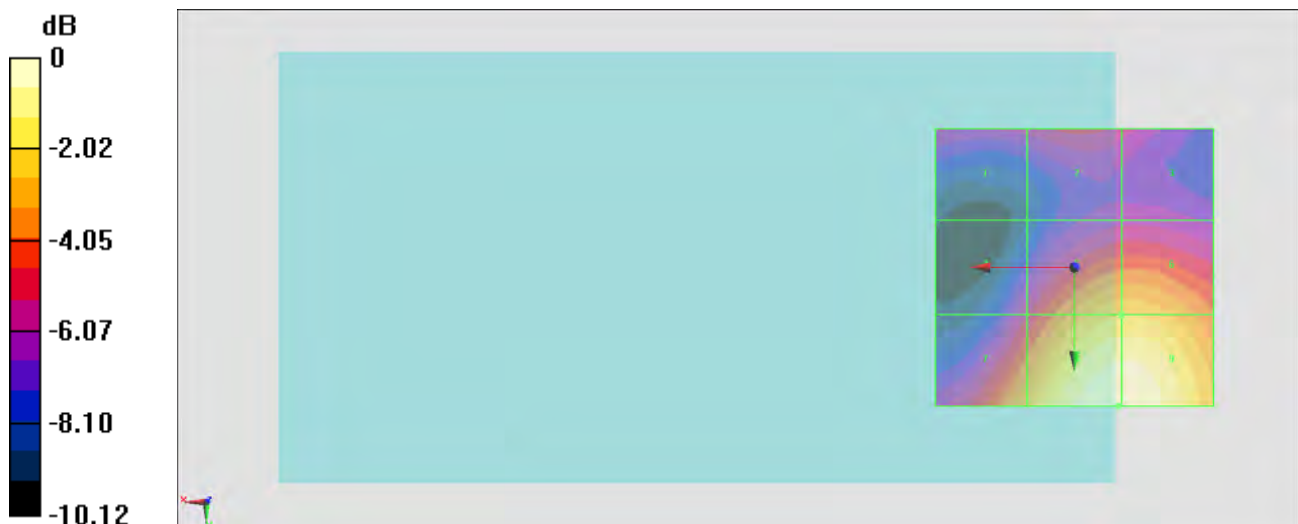
Grid 1 M4 23.79 dBV/m	Grid 2 M4 24.33 dBV/m	Grid 3 M4 23.78 dBV/m
Grid 4 M4 24.01 dBV/m	Grid 5 M4 27.38 dBV/m	Grid 6 M4 27.39 dBV/m
Grid 7 M4 26.9 dBV/m	Grid 8 M4 29.42 dBV/m	Grid 9 M4 29.42 dBV/m

Cursor:

Total = 29.42 dBV/m

E Category: M4

Location: -8, 25, 8.7 mm



$$0 \text{ dB} = 29.58 \text{ V/m} = 29.42 \text{ dBV/m}$$

#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: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.5 °C

DASY5 Configuration

- Probe: ER3DV6 - SN2302; ConvF(1, 1, 1); Calibrated: 2014/6/18;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn495; Calibrated: 2014/5/19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch661/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 = 11.04 V/m; Power Drift = 0.18 dB

Applied MIF = 3.63 dB

RF audio interference level = 27.92 dBV/m

Emission category: M4

MIF scaled E-field

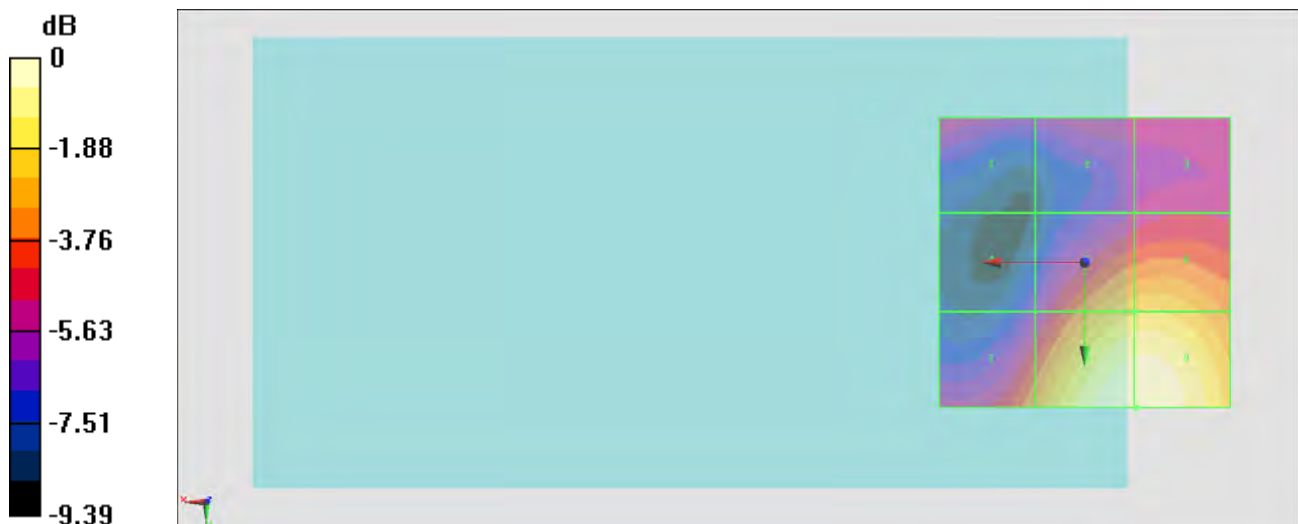
Grid 1 M4 22.94 dBV/m	Grid 2 M4 23.03 dBV/m	Grid 3 M4 23.04 dBV/m
Grid 4 M4 21.99 dBV/m	Grid 5 M4 26 dBV/m	Grid 6 M4 26.13 dBV/m
Grid 7 M4 24.9 dBV/m	Grid 8 M4 27.92 dBV/m	Grid 9 M4 27.92 dBV/m

Cursor:

Total = 27.92 dBV/m

E Category: M4

Location: -9, 25, 8.7 mm



$$0 \text{ dB} = 24.89 \text{ V/m} = 27.92 \text{ dBV/m}$$

#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, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C

DASY5 Configuration

- Probe: ER3DV6 - SN2302; ConvF(1, 1, 1); Calibrated: 2014/6/18;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn495; Calibrated: 2014/5/19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Ch810/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 = 10.10 V/m; Power Drift = 0.11 dB

Applied MIF = 3.63 dB

RF audio interference level = 26.94 dBV/m

Emission category: M4

MIF scaled E-field

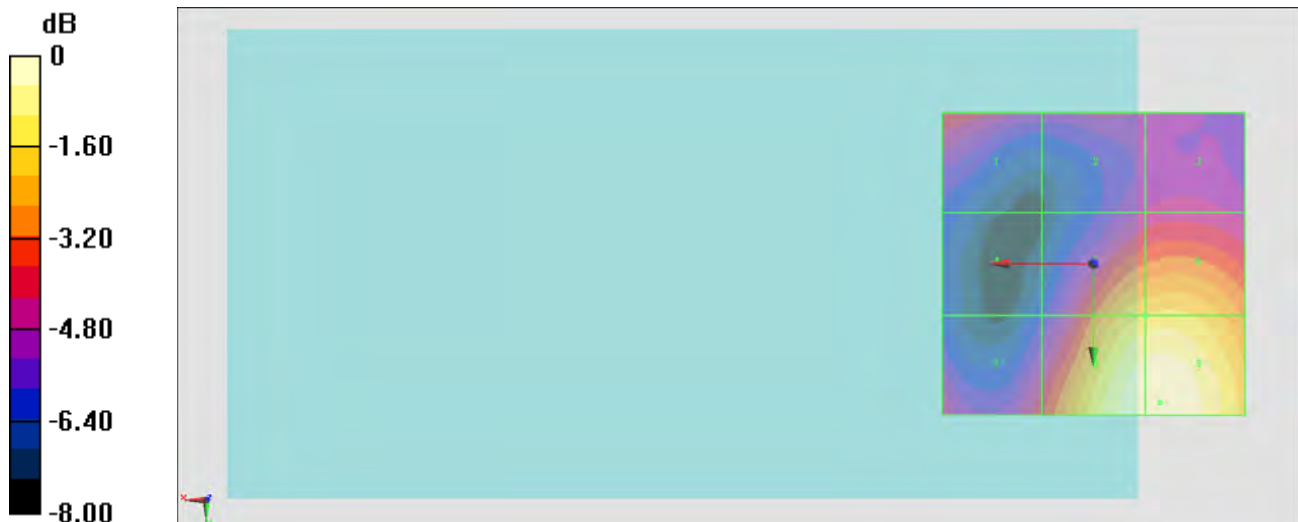
Grid 1 M4 23.19 dBV/m	Grid 2 M4 22.41 dBV/m	Grid 3 M4 22.49 dBV/m
Grid 4 M4 21 dBV/m	Grid 5 M4 25.38 dBV/m	Grid 6 M4 25.53 dBV/m
Grid 7 M4 23.16 dBV/m	Grid 8 M4 26.88 dBV/m	Grid 9 M4 26.94 dBV/m

Cursor:

Total = 26.94 dBV/m

E Category: M4

Location: -11, 23, 8.7 mm



$$0 \text{ dB} = 22.24 \text{ V/m} = 26.94 \text{ dBV/m}$$