

## #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/m<sup>3</sup>

Ambient Temperature : 23.2 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2302; ConvF(1, 1, 1); Calibrated: 2014/6/18;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2014/11/13
- 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 = 67.14 V/m; Power Drift = -0.03 dB

Applied MIF = 3.63 dB

RF audio interference level = 38.55 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>37.68 dBV/m</b>	Grid 2 <b>M4</b> <b>38.11 dBV/m</b>	Grid 3 <b>M4</b> <b>37.72 dBV/m</b>
Grid 4 <b>M4</b> <b>37.92 dBV/m</b>	Grid 5 <b>M4</b> <b>38.22 dBV/m</b>	Grid 6 <b>M4</b> <b>37.63 dBV/m</b>
Grid 7 <b>M4</b> <b>38.31 dBV/m</b>	Grid 8 <b>M4</b> <b>38.55 dBV/m</b>	Grid 9 <b>M4</b> <b>37.8 dBV/m</b>

**Cursor:**

Total = 38.55 dBV/m

E Category: M4

Location: 1, 20.5, 8.7 mm



0 dB = 84.66 V/m = 38.55 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/m<sup>3</sup>

Ambient Temperature : 23.2 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2302; ConvF(1, 1, 1); Calibrated: 2014/6/18;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2014/11/13
- 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 = 69.59 V/m; Power Drift = -0.03 dB

Applied MIF = 3.63 dB

RF audio interference level = 39.16 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>37.82 dBV/m</b>	Grid 2 <b>M4</b> <b>38.25 dBV/m</b>	Grid 3 <b>M4</b> <b>37.93 dBV/m</b>
Grid 4 <b>M4</b> <b>38.31 dBV/m</b>	Grid 5 <b>M4</b> <b>38.65 dBV/m</b>	Grid 6 <b>M4</b> <b>38.22 dBV/m</b>
Grid 7 <b>M4</b> <b>38.92 dBV/m</b>	Grid 8 <b>M4</b> <b>39.16 dBV/m</b>	Grid 9 <b>M4</b> <b>38.48 dBV/m</b>

**Cursor:**

Total = 39.16 dBV/m

E Category: M4

Location: 1.5, 24.5, 8.7 mm



0 dB = 90.77 V/m = 39.16 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/m<sup>3</sup>

Ambient Temperature : 23.2 °C

#### DASY5 Configuration

- Probe: ER3DV6 - SN2302; ConvF(1, 1, 1); Calibrated: 2014/6/18;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2014/11/13
- 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 = 71.66 V/m; Power Drift = 0.00 dB

Applied MIF = 3.63 dB

RF audio interference level = 39.36 dBV/m

**Emission category: M4**

MIF scaled E-field

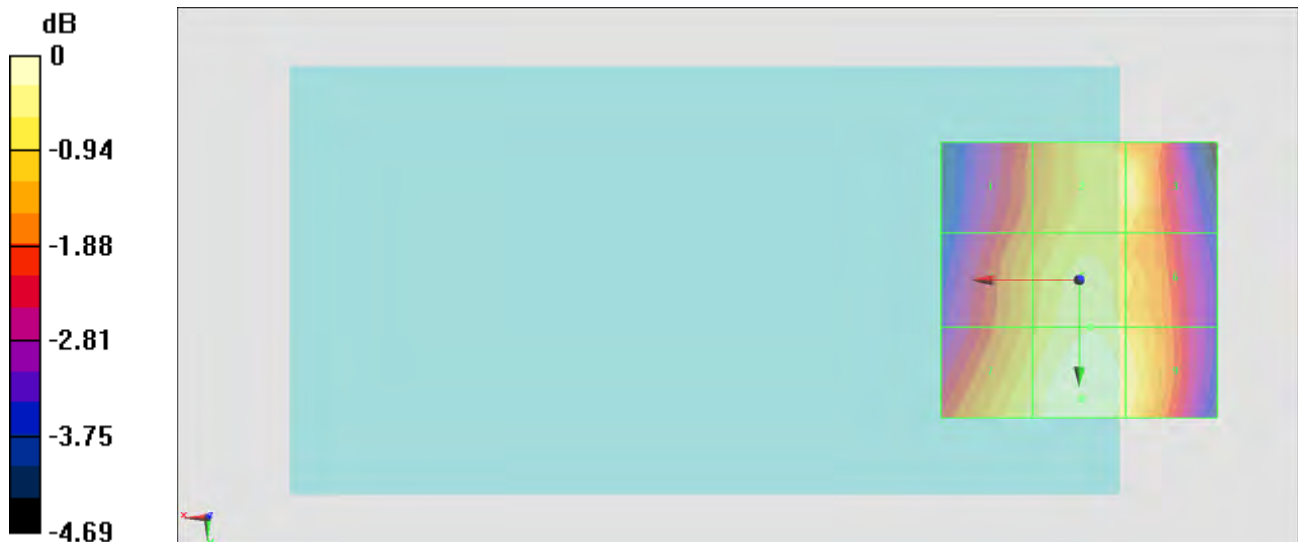
Grid 1 <b>M4</b> <b>37.9 dBV/m</b>	Grid 2 <b>M4</b> <b>38.9 dBV/m</b>	Grid 3 <b>M4</b> <b>38.92 dBV/m</b>
Grid 4 <b>M4</b> <b>38.35 dBV/m</b>	Grid 5 <b>M4</b> <b>39.02 dBV/m</b>	Grid 6 <b>M4</b> <b>38.66 dBV/m</b>
Grid 7 <b>M4</b> <b>38.89 dBV/m</b>	Grid 8 <b>M4</b> <b>39.36 dBV/m</b>	Grid 9 <b>M4</b> <b>39 dBV/m</b>

**Cursor:**

Total = 39.36 dBV/m

E Category: M4

Location: -0.5, 21.5, 8.7 mm



0 dB = 92.93 V/m = 39.36 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,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C

#### DASY5 Configuration

- Probe: ER3DV6 - SN2302; ConvF(1, 1, 1); Calibrated: 2014/6/18;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2014/11/13
- 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 = 21.40 V/m; Power Drift = 0.05 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.56 dBV/m

**Emission category: M3**

MIF scaled E-field

Grid 1 <b>M4</b> <b>28.29 dBV/m</b>	Grid 2 <b>M3</b> <b>30.66 dBV/m</b>	Grid 3 <b>M3</b> <b>30.58 dBV/m</b>
Grid 4 <b>M4</b> <b>25.38 dBV/m</b>	Grid 5 <b>M3</b> <b>30.55 dBV/m</b>	Grid 6 <b>M3</b> <b>30.6 dBV/m</b>
Grid 7 <b>M4</b> <b>27.62 dBV/m</b>	Grid 8 <b>M3</b> <b>31.56 dBV/m</b>	Grid 9 <b>M3</b> <b>31.56 dBV/m</b>

**Cursor:**

Total = 31.56 dBV/m

E Category: M3

Location: -8.5, 23, 8.7 mm



0 dB = 37.87 V/m = 31.57 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,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C

#### DASY5 Configuration

- Probe: ER3DV6 - SN2302; ConvF(1, 1, 1); Calibrated: 2014/6/18;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2014/11/13
- 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 = 21.49 V/m; Power Drift = -0.11 dB

Applied MIF = 3.63 dB

RF audio interference level = 30.82 dBV/m

**Emission category: M3**

MIF scaled E-field

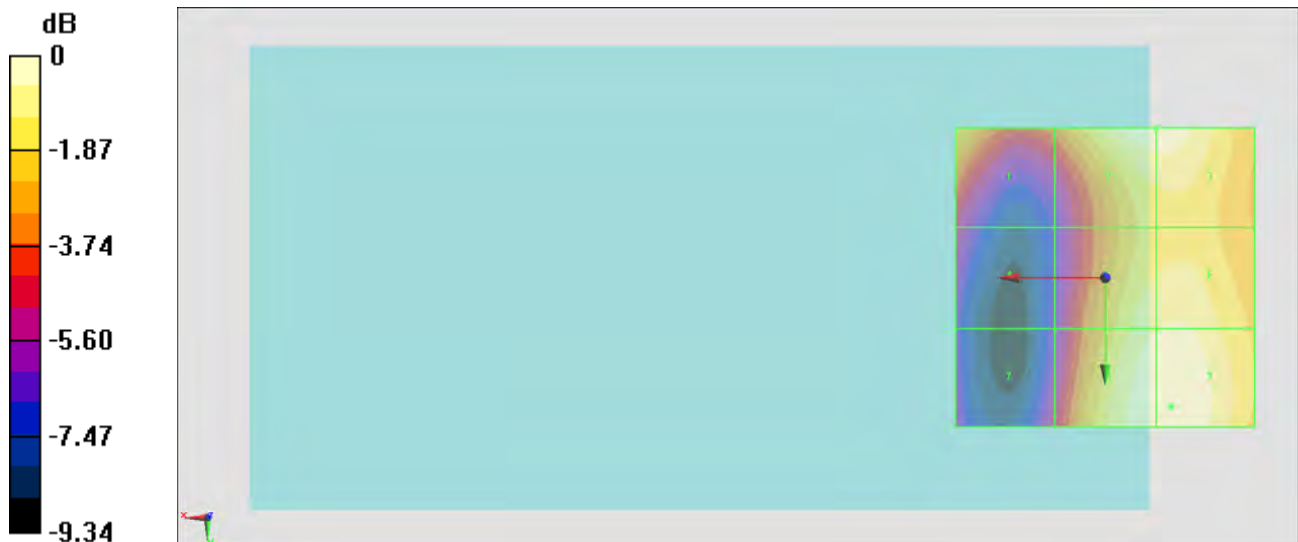
Grid 1 <b>M4</b> <b>29.32 dBV/m</b>	Grid 2 <b>M3</b> <b>30.74 dBV/m</b>	Grid 3 <b>M3</b> <b>30.74 dBV/m</b>
Grid 4 <b>M4</b> <b>25.96 dBV/m</b>	Grid 5 <b>M3</b> <b>30.16 dBV/m</b>	Grid 6 <b>M3</b> <b>30.27 dBV/m</b>
Grid 7 <b>M4</b> <b>25.85 dBV/m</b>	Grid 8 <b>M3</b> <b>30.76 dBV/m</b>	Grid 9 <b>M3</b> <b>30.82 dBV/m</b>

**Cursor:**

Total = 30.82 dBV/m

E Category: M3

Location: -11, 21.5, 8.7 mm



0 dB = 34.75 V/m = 30.82 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/m<sup>3</sup>

Ambient Temperature : 23.2 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2302; ConvF(1, 1, 1); Calibrated: 2014/6/18;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2014/11/13
- 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 = 19.58 V/m; Power Drift = 0.00 dB

Applied MIF = 3.63 dB

RF audio interference level = 30.98 dBV/m

**Emission category: M3**

MIF scaled E-field

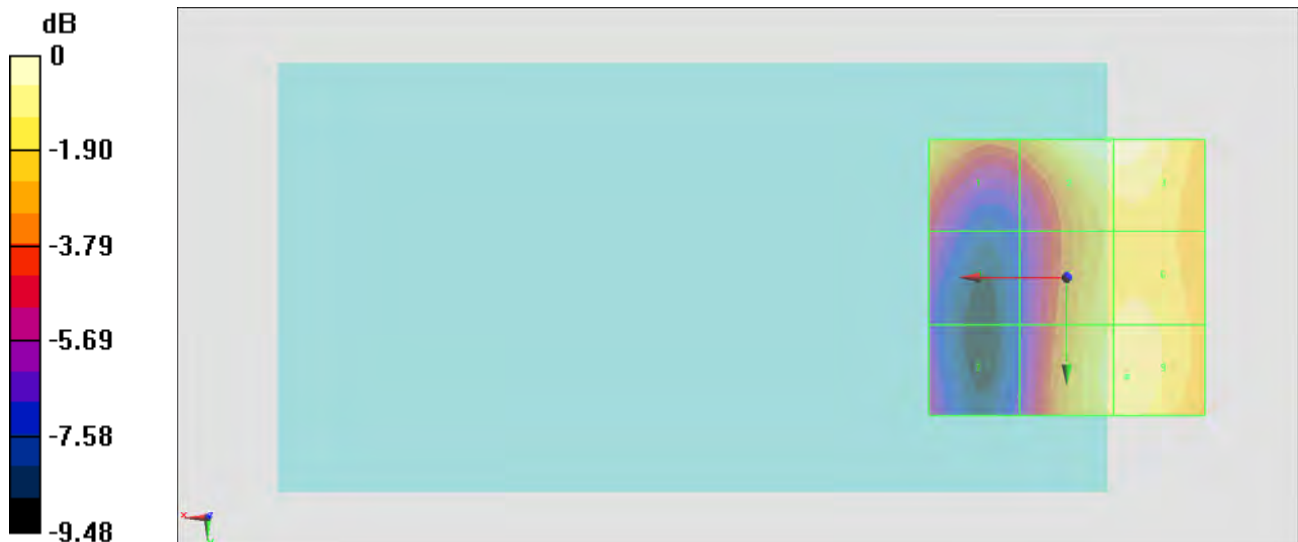
Grid 1 <b>M4</b> <b>29.66 dBV/m</b>	Grid 2 <b>M3</b> <b>30.98 dBV/m</b>	Grid 3 <b>M3</b> <b>30.98 dBV/m</b>
Grid 4 <b>M4</b> <b>26.24 dBV/m</b>	Grid 5 <b>M4</b> <b>29.77 dBV/m</b>	Grid 6 <b>M4</b> <b>29.92 dBV/m</b>
Grid 7 <b>M4</b> <b>25.79 dBV/m</b>	Grid 8 <b>M4</b> <b>29.99 dBV/m</b>	Grid 9 <b>M3</b> <b>30.09 dBV/m</b>

**Cursor:**

Total = 30.98 dBV/m

E Category: M3

Location: -7.5, -25, 8.7 mm



0 dB = 35.41 V/m = 30.98 dBV/m