# #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, $\varepsilon_r = 1$; $\rho = 0$ kg/m$^3$

Ambient Temperature：23.4 ℃

DASY5 Configuration
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2018/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**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 = 55.99 V/m; Power Drift = 0.08 dB
Applied MIF = 3.63 dB
RF audio interference level = 37.40 dBV/m
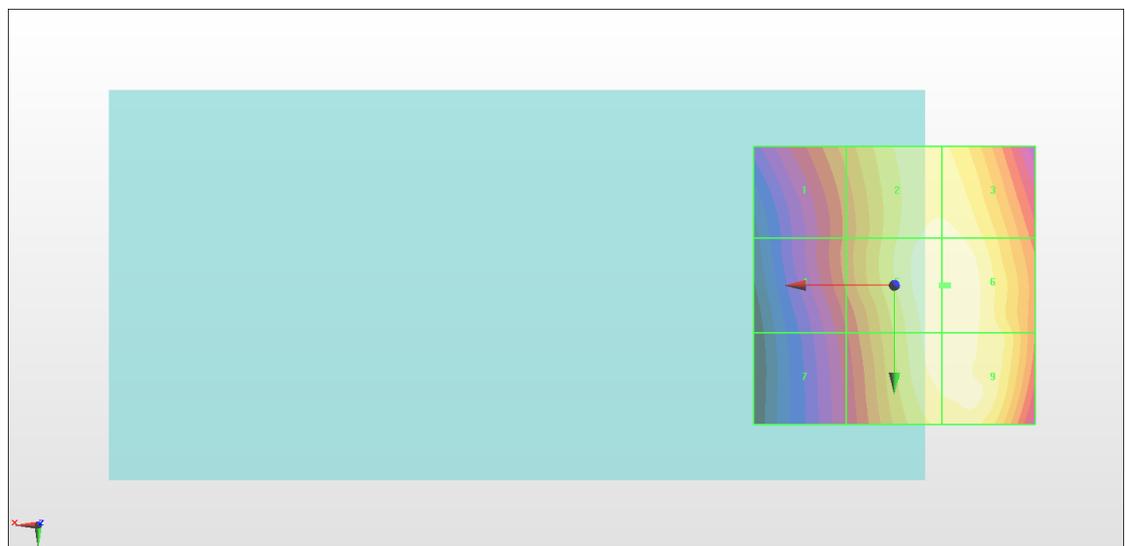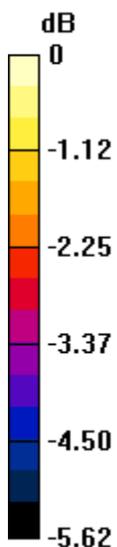**Emission category: M4**

MIF scaled E-field

| Grid 1 **M4** | Grid 2 **M4** | Grid 3 **M4** |
|---|---|---|
| **35.74 dBV/m** | **37.17 dBV/m** | **37.17 dBV/m** |
| Grid 4 **M4** | Grid 5 **M4** | Grid 6 **M4** |
| **35.35 dBV/m** | **37.4 dBV/m** | **37.4 dBV/m** |
| Grid 7 **M4** | Grid 8 **M4** | Grid 9 **M4** |
| **34.76 dBV/m** | **37.28 dBV/m** | **37.3 dBV/m** |

**Cursor:**
Total = 37.40 dBV/m
E Category: M4
Location: -9.5, 0, 8.7 mm



0 dB = 74.15 V/m = 37.40 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, $\varepsilon_r = 1$; $\rho = 0$ kg/m$^3$

Ambient Temperature：23.4 ℃

DASY5 Configuration
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2018/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**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 = 52.47 V/m; Power Drift = 0.09 dB

Applied MIF = 3.63 dB

RF audio interference level = 36.89 dBV/m

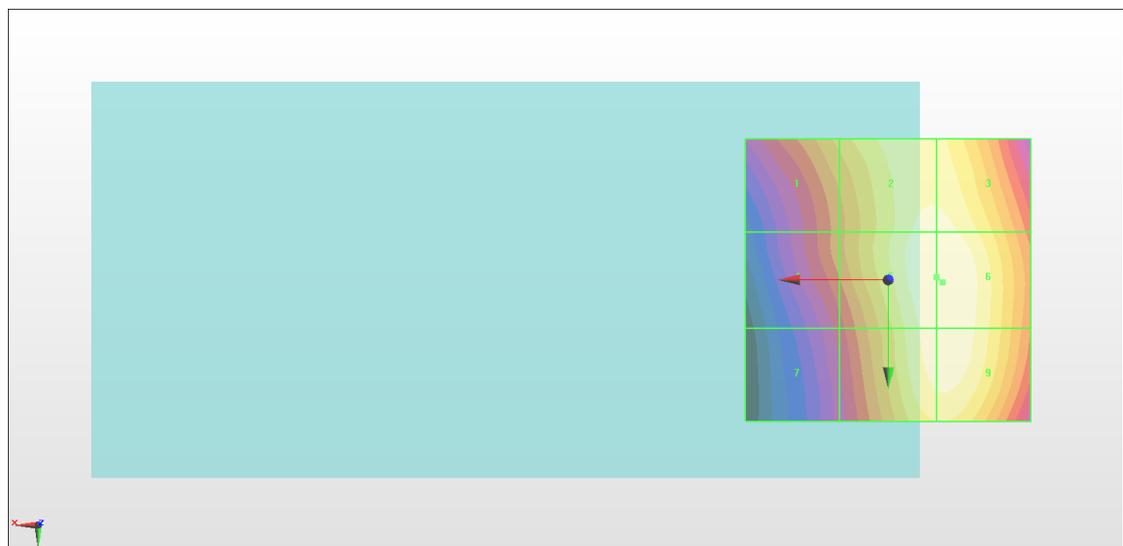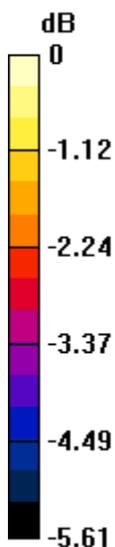**Emission category: M4**

MIF scaled E-field

| Grid 1 **M4** **35.56 dBV/m** | Grid 2 **M4** **36.68 dBV/m** | Grid 3 **M4** **36.68 dBV/m** |
|---|---|---|
| Grid 4 **M4** **34.92 dBV/m** | Grid 5 **M4** **36.88 dBV/m** | Grid 6 **M4** **36.89 dBV/m** |
| Grid 7 **M4** **34.12 dBV/m** | Grid 8 **M4** **36.76 dBV/m** | Grid 9 **M4** **36.79 dBV/m** |

**Cursor:**
Total = 36.89 dBV/m
E Category: M4
Location: -9.5, 0.5, 8.7 mm



0 dB = 69.89 V/m = 36.89 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, $\varepsilon_r = 1$; $\rho = 0$ kg/m$^3$

Ambient Temperature：23.4 ℃

DASY5 Configuration
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2018/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**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 = 47.11 V/m; Power Drift = -0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 36.25 dBV/m

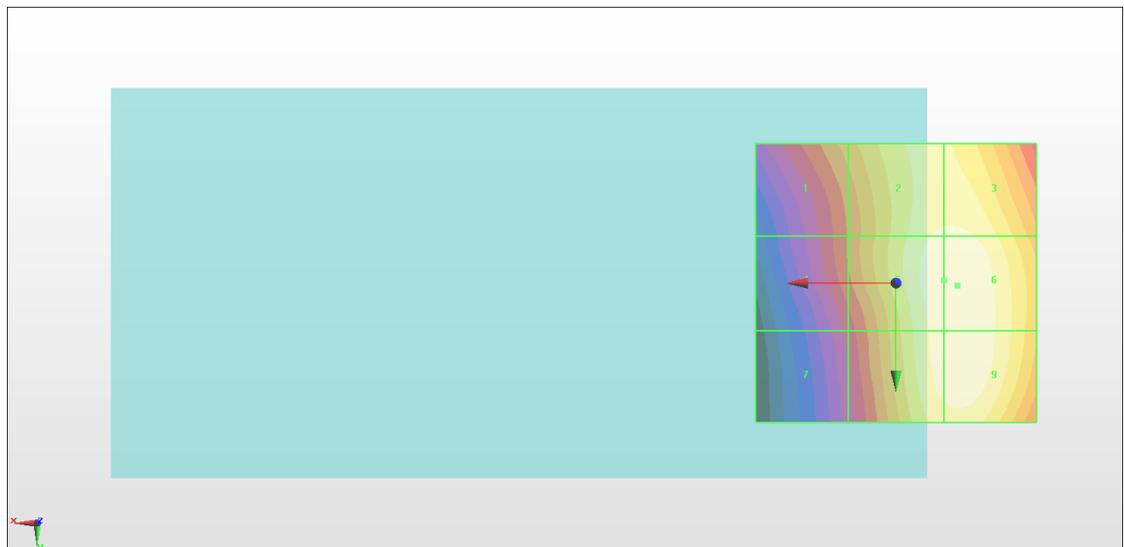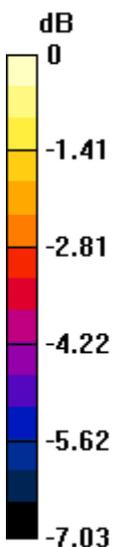**Emission category: M4**

MIF scaled E-field

| Grid 1 **M4** **34.17 dBV/m** | Grid 2 **M4** **35.88 dBV/m** | Grid 3 **M4** **35.89 dBV/m** |
|---|---|---|
| Grid 4 **M4** **33.51 dBV/m** | Grid 5 **M4** **36.18 dBV/m** | Grid 6 **M4** **36.25 dBV/m** |
| Grid 7 **M4** **32.71 dBV/m** | Grid 8 **M4** **36.07 dBV/m** | Grid 9 **M4** **36.2 dBV/m** |

**Cursor:**
Total = 36.25 dBV/m
E Category: M4
Location: -11, 0.5, 8.7 mm



0 dB = 64.94 V/m = 36.25 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, $\varepsilon_r = 1$; $\rho = 0$ kg/m$^3$

Ambient Temperature：23.4 ℃

DASY5 Configuration
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2018/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**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 = 16.47 V/m; Power Drift = -0.09 dB
Applied MIF = 3.63 dB
RF audio interference level = 27.21 dBV/m
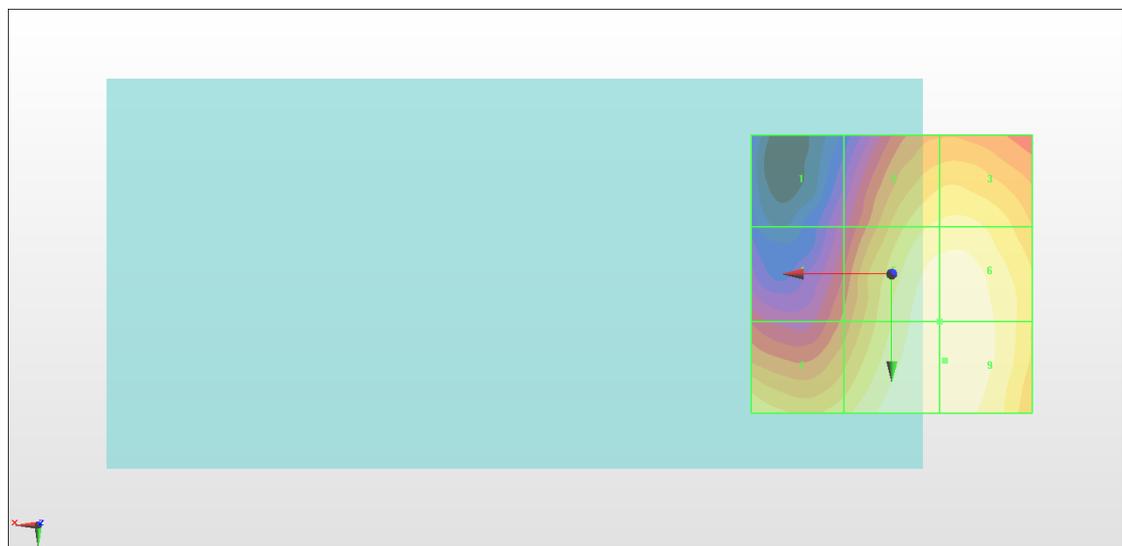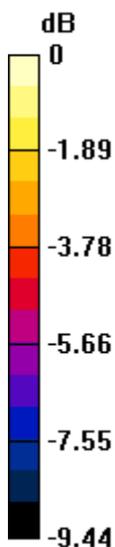**Emission category: M4**

MIF scaled E-field

| | | |
|---|---|---|
| Grid 1 **M4** **21.97 dBV/m** | Grid 2 **M4** **26.11 dBV/m** | Grid 3 **M4** **26.19 dBV/m** |
| Grid 4 **M4** **23.66 dBV/m** | Grid 5 **M4** **27.08 dBV/m** | Grid 6 **M4** **27.11 dBV/m** |
| Grid 7 **M4** **25.99 dBV/m** | Grid 8 **M4** **27.2 dBV/m** | Grid 9 **M4** **27.21 dBV/m** |

**Cursor:**
Total = 27.21 dBV/m
E Category: M4
Location: -9.5, 15.5, 8.7 mm



0 dB = 22.94 V/m = 27.21 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, $\varepsilon_r = 1$; $\rho = 0$ kg/m$^3$

Ambient Temperature：23.4 ℃

DASY5 Configuration
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2018/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**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 = 15.97 V/m; Power Drift = -0.12 dB

Applied MIF = 3.63 dB

RF audio interference level = 26.83 dBV/m

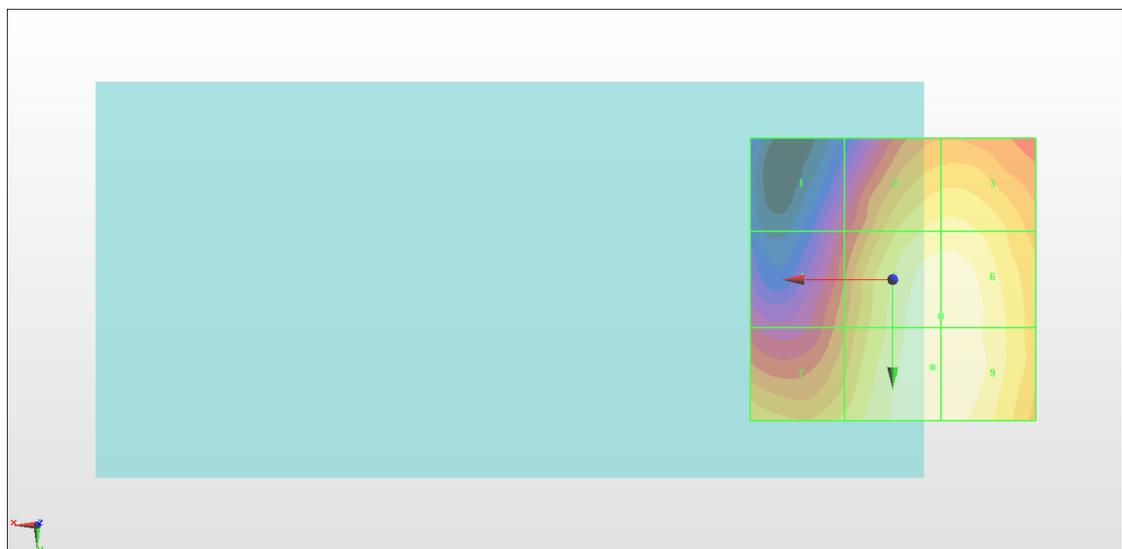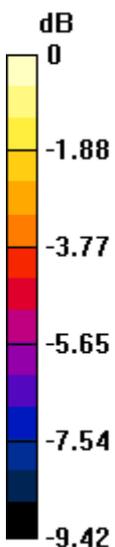**Emission category: M4**

MIF scaled E-field

| Grid 1 **M4** | Grid 2 **M4** | Grid 3 **M4** |
|---|---|---|
| **22.15 dBV/m** | **25.85 dBV/m** | **25.88 dBV/m** |
| Grid 4 **M4** | Grid 5 **M4** | Grid 6 **M4** |
| **23.61 dBV/m** | **26.74 dBV/m** | **26.74 dBV/m** |
| Grid 7 **M4** | Grid 8 **M4** | Grid 9 **M4** |
| **25.15 dBV/m** | **26.83 dBV/m** | **26.8 dBV/m** |

**Cursor:**
Total = 26.83 dBV/m
E Category: M4
Location: -7, 15.5, 8.7 mm



0 dB = 21.95 V/m = 26.83 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, $\varepsilon_r = 1$; $\rho = 0$ kg/m$^3$

Ambient Temperature：23.4 ℃

DASY5 Configuration
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2018/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn854; Calibrated: 2017/5/2
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**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 = 15.05 V/m; Power Drift = 0.03 dB
Applied MIF = 3.63 dB
RF audio interference level = 26.32 dBV/m
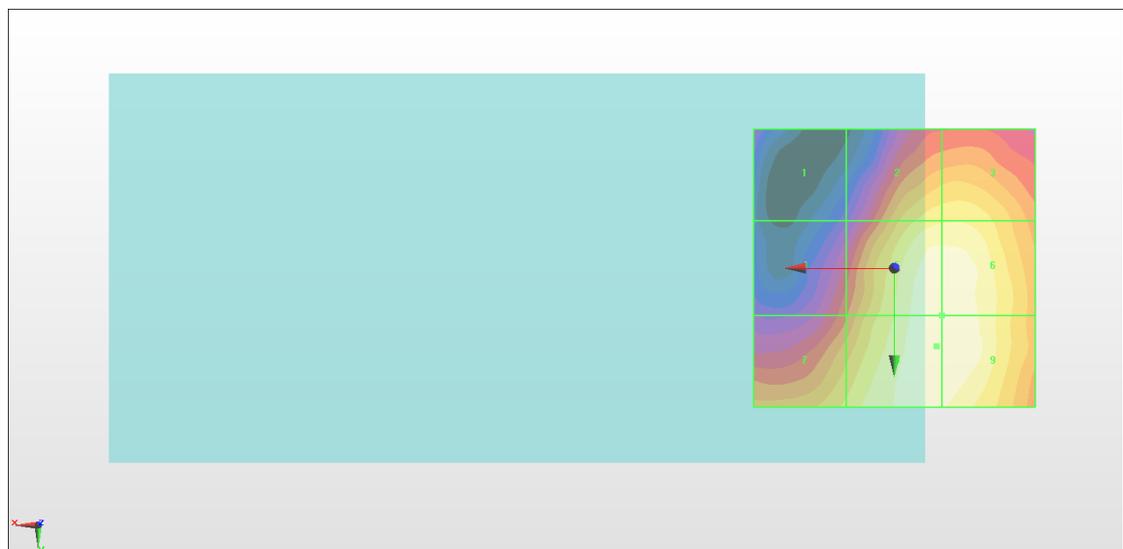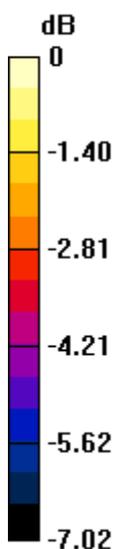**Emission category: M4**

MIF scaled E-field

| Grid 1 **M4** | Grid 2 **M4** | Grid 3 **M4** |
|---|---|---|
| **21.96 dBV/m** | **25.33 dBV/m** | **25.36 dBV/m** |
| Grid 4 **M4** | Grid 5 **M4** | Grid 6 **M4** |
| **23.48 dBV/m** | **26.27 dBV/m** | **26.27 dBV/m** |
| Grid 7 **M4** | Grid 8 **M4** | Grid 9 **M4** |
| **25.06 dBV/m** | **26.32 dBV/m** | **26.31 dBV/m** |

**Cursor:**
Total = 26.32 dBV/m
E Category: M4
Location: -7.5, 14, 8.7 mm



0 dB = 20.70 V/m = 26.32 dBV/m