

## #01\_HAC\_E\_GSM850\_GSM Voice\_Ch128

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2016/11/17
- 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 = 14.32 V/m; Power Drift = -0.07 dB

Applied MIF = 3.63 dB

RF audio interference level = 25.66 dBV/m

**Emission category: M4**

MIF scaled E-field

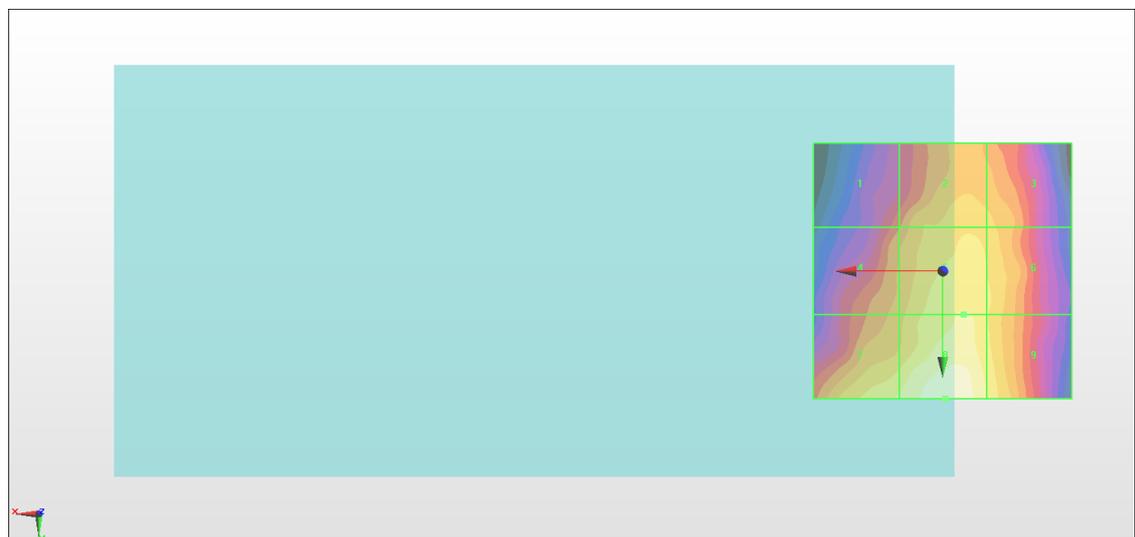
|  |  |  |
|--|--|--|
| Grid 1 <b>M4</b><br><b>23.9 dBV/m</b>  | Grid 2 <b>M4</b><br><b>24.75 dBV/m</b> | Grid 3 <b>M4</b><br><b>24.64 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>24.39 dBV/m</b> | Grid 5 <b>M4</b><br><b>25.11 dBV/m</b> | Grid 6 <b>M4</b><br><b>24.86 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>25.13 dBV/m</b> | Grid 8 <b>M4</b><br><b>25.66 dBV/m</b> | Grid 9 <b>M4</b><br><b>25.1 dBV/m</b>  |

**Cursor:**

Total = 25.66 dBV/m

E Category: M4

Location: -0.5, 25, 8.7 mm



0 dB = 19.18 V/m = 25.66 dBV/m

## #02\_HAC\_E\_GSM850\_GSM Voice\_Ch189

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 836.4 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2016/11/17
- 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 = 12.95 V/m; Power Drift = -0.08 dB

Applied MIF = 3.63 dB

RF audio interference level = 25.04 dBV/m

**Emission category: M4**

MIF scaled E-field

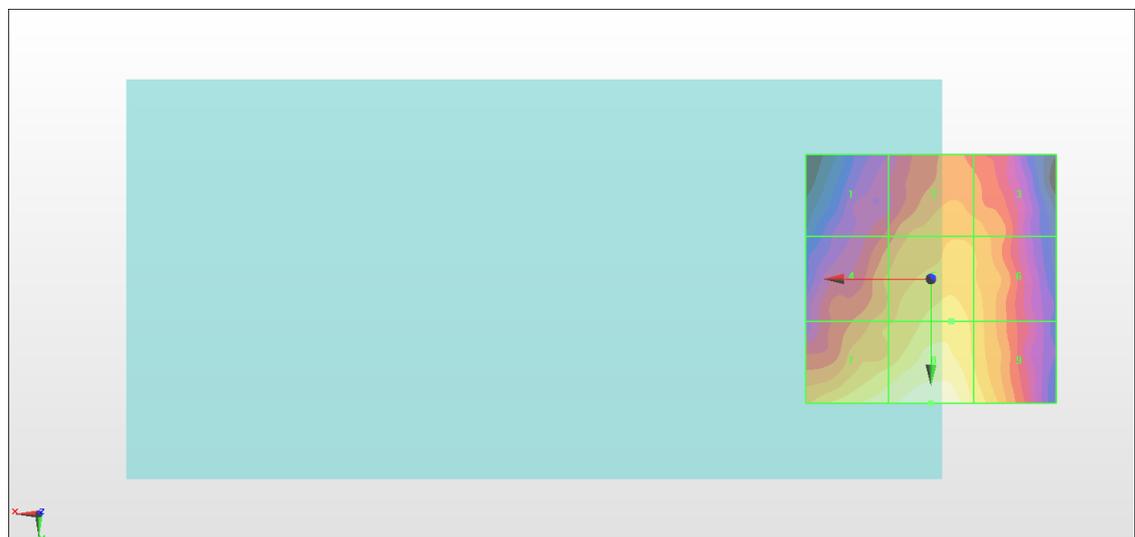
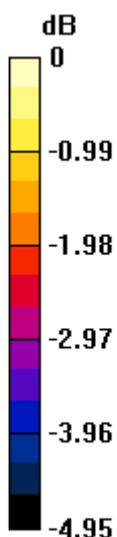
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|--|--|--|
| Grid 1 <b>M4</b><br><b>22.9 dBV/m</b>  | Grid 2 <b>M4</b><br><b>23.7 dBV/m</b>  | Grid 3 <b>M4</b><br><b>23.62 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>23.67 dBV/m</b> | Grid 5 <b>M4</b><br><b>24.26 dBV/m</b> | Grid 6 <b>M4</b><br><b>23.95 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>24.6 dBV/m</b>  | Grid 8 <b>M4</b><br><b>25.04 dBV/m</b> | Grid 9 <b>M4</b><br><b>24.42 dBV/m</b> |

**Cursor:**

Total = 25.04 dBV/m

E Category: M4

Location: 0, 25, 8.7 mm



0 dB = 17.86 V/m = 25.04 dBV/m

### #03\_HAC\_E\_GSM850\_GSM Voice\_Ch251

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

#### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2016/11/17
- 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 = 11.32 V/m; Power Drift = -0.06 dB

Applied MIF = 3.63 dB

RF audio interference level = 24.12 dBV/m

**Emission category: M4**

MIF scaled E-field

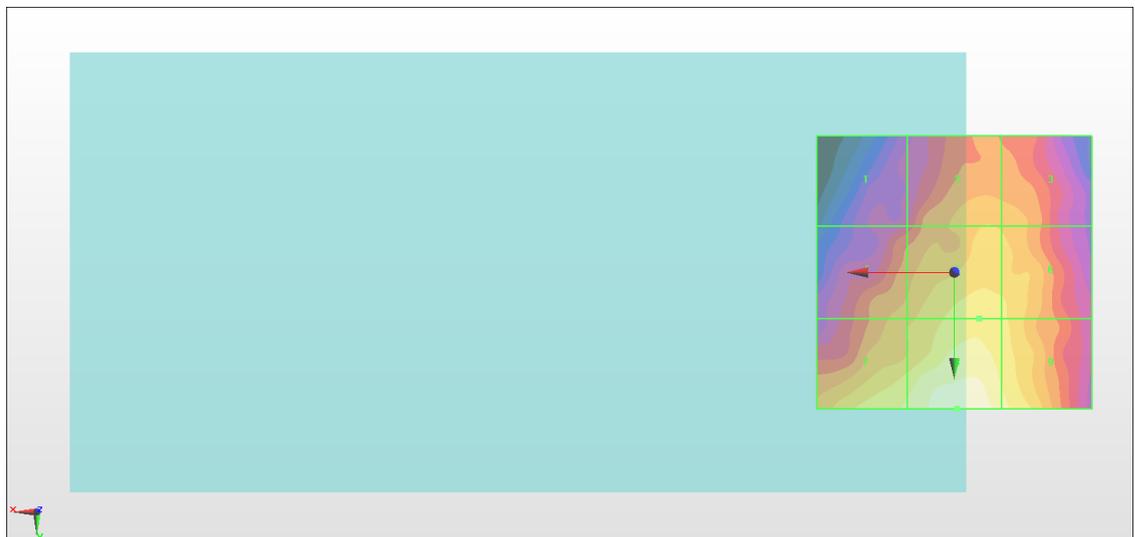
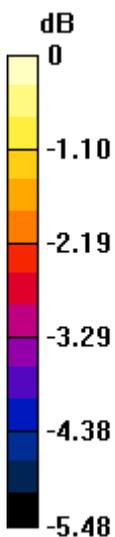
|  |  |  |
|--|--|--|
| Grid 1 <b>M4</b><br><b>21.29 dBV/m</b> | Grid 2 <b>M4</b><br><b>22.68 dBV/m</b> | Grid 3 <b>M4</b><br><b>22.63 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>22.58 dBV/m</b> | Grid 5 <b>M4</b><br><b>23.26 dBV/m</b> | Grid 6 <b>M4</b><br><b>23.12 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>23.48 dBV/m</b> | Grid 8 <b>M4</b><br><b>24.12 dBV/m</b> | Grid 9 <b>M4</b><br><b>23.57 dBV/m</b> |

**Cursor:**

Total = 24.12 dBV/m

E Category: M4

Location: -0.5, 25, 8.7 mm



0 dB = 16.08 V/m = 24.13 dBV/m

### #07\_HAC\_E\_GSM850\_GSM Voice\_Ch128

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2016/11/17
- 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 = 13.60 V/m; Power Drift = -0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 24.86 dBV/m

**Emission category: M4**

MIF scaled E-field

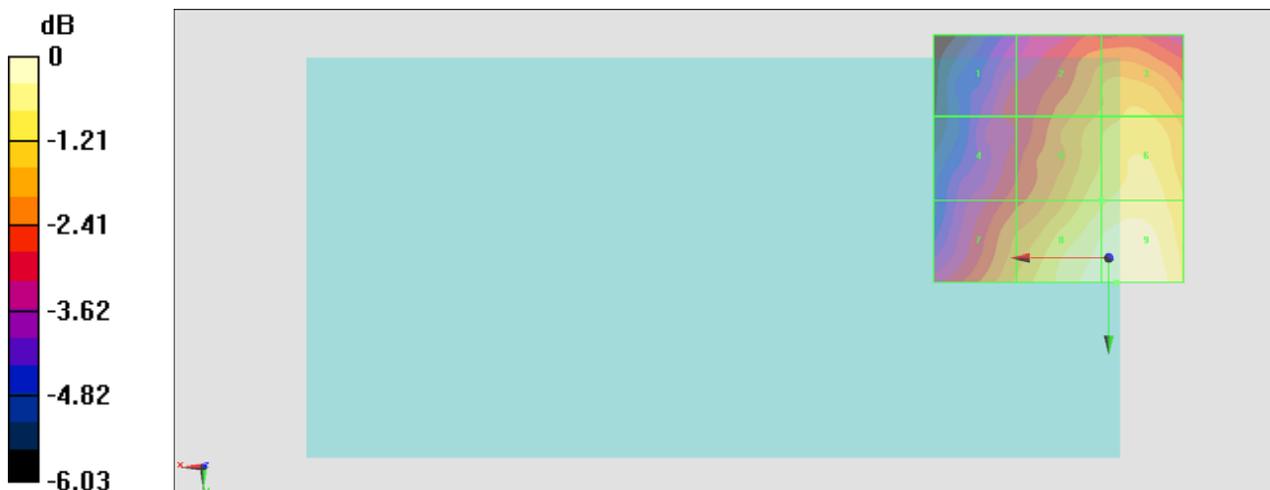
|  |  |  |
|--|--|--|
| <b>Grid 1 M4</b><br><b>21.96 dBV/m</b> | <b>Grid 2 M4</b><br><b>23.35 dBV/m</b> | <b>Grid 3 M4</b><br><b>23.76 dBV/m</b> |
| <b>Grid 4 M4</b><br><b>22.32 dBV/m</b> | <b>Grid 5 M4</b><br><b>23.96 dBV/m</b> | <b>Grid 6 M4</b><br><b>24.27 dBV/m</b> |
| <b>Grid 7 M4</b><br><b>23.34 dBV/m</b> | <b>Grid 8 M4</b><br><b>24.77 dBV/m</b> | <b>Grid 9 M4</b><br><b>24.86 dBV/m</b> |

**Cursor:**

Total = 24.86 dBV/m

E Category: M4

Location: -1.5, 5, 8.7 mm



0 dB = 17.49 V/m = 24.86 dBV/m

## #04\_HAC\_E\_GSM1900\_GSM Voice\_Ch512

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2016/11/17
- 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 = 17.49 V/m; Power Drift = -0.00 dB

Applied MIF = 3.63 dB

RF audio interference level = 29.09 dBV/m

**Emission category: M4**

MIF scaled E-field

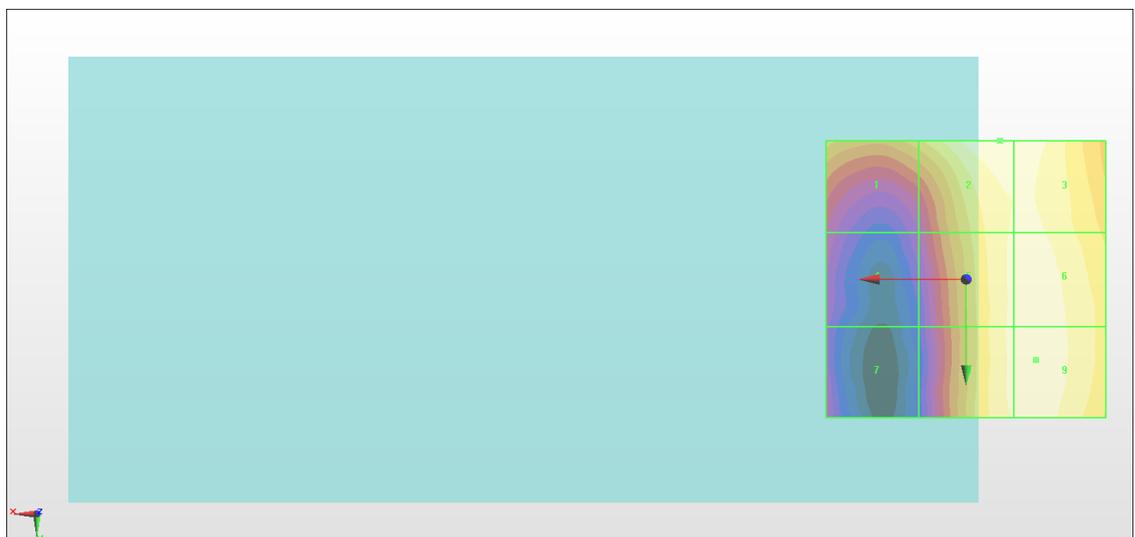
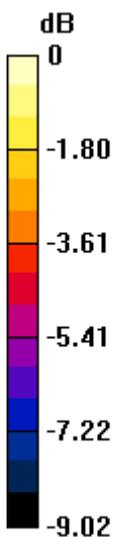
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| Grid 1 <b>M4</b><br><b>27.11 dBV/m</b> | Grid 2 <b>M4</b><br><b>29.09 dBV/m</b> | Grid 3 <b>M4</b><br><b>29 dBV/m</b>    |
| Grid 4 <b>M4</b><br><b>24.32 dBV/m</b> | Grid 5 <b>M4</b><br><b>28.62 dBV/m</b> | Grid 6 <b>M4</b><br><b>28.79 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>23.87 dBV/m</b> | Grid 8 <b>M4</b><br><b>28.62 dBV/m</b> | Grid 9 <b>M4</b><br><b>28.82 dBV/m</b> |

**Cursor:**

Total = 29.09 dBV/m

E Category: M4

Location: -6, -25, 8.7 mm



0 dB = 28.47 V/m = 29.09 dBV/m

## #05\_HAC\_E\_GSM1900\_GSM Voice\_Ch661

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5 °C

### DASY5 Configuration

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2016/11/17
- 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 = 16.46 V/m; Power Drift = 0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 28.90 dBV/m

**Emission category: M4**

MIF scaled E-field

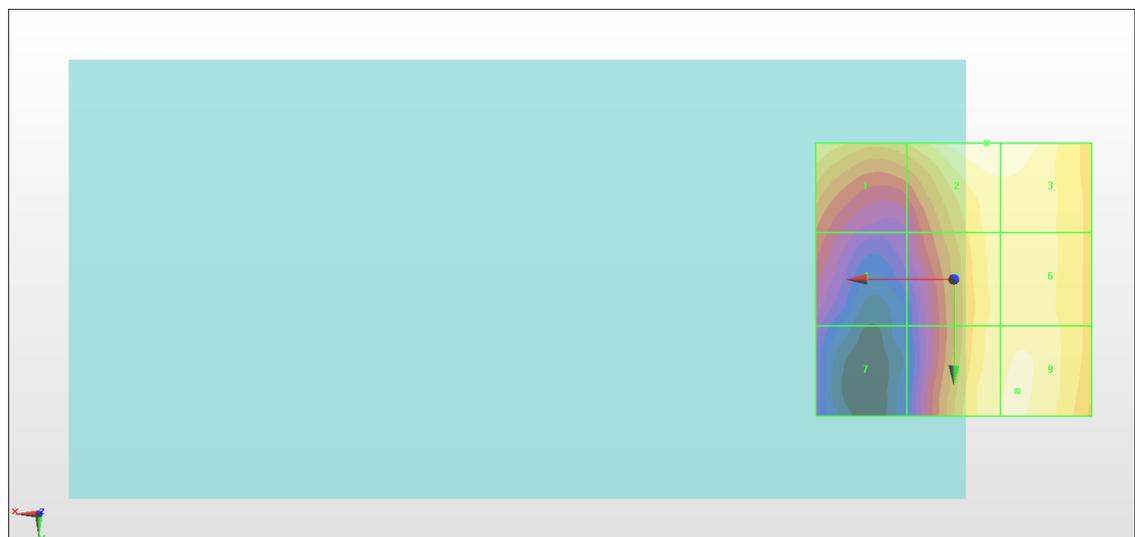
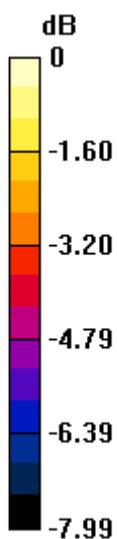
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| Grid 1 <b>M4</b><br><b>27.98 dBV/m</b> | Grid 2 <b>M4</b><br><b>28.9 dBV/m</b>  | Grid 3 <b>M4</b><br><b>28.83 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>25.67 dBV/m</b> | Grid 5 <b>M4</b><br><b>28.1 dBV/m</b>  | Grid 6 <b>M4</b><br><b>28.28 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>23.94 dBV/m</b> | Grid 8 <b>M4</b><br><b>28.37 dBV/m</b> | Grid 9 <b>M4</b><br><b>28.45 dBV/m</b> |

**Cursor:**

Total = 28.90 dBV/m

E Category: M4

Location: -6, -25, 8.7 mm



0 dB = 27.86 V/m = 28.90 dBV/m

## #06\_HAC\_E\_GSM1900\_GSM Voice\_Ch810

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

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 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2016/11/17
- 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 = 15.36 V/m; Power Drift = 0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 29.87 dBV/m

**Emission category: M4**

MIF scaled E-field

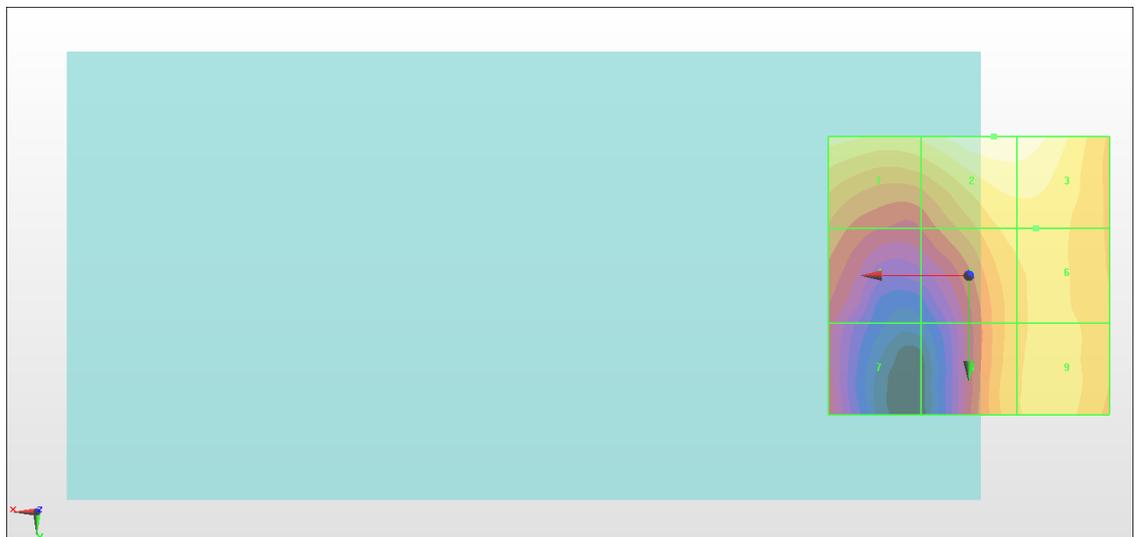
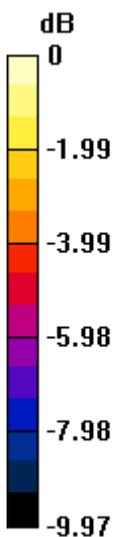
|  |  |  |
|--|--|--|
| Grid 1 <b>M4</b><br><b>28.94 dBV/m</b> | Grid 2 <b>M4</b><br><b>29.87 dBV/m</b> | Grid 3 <b>M4</b><br><b>29.76 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>26.48 dBV/m</b> | Grid 5 <b>M4</b><br><b>28.17 dBV/m</b> | Grid 6 <b>M4</b><br><b>28.27 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>25.06 dBV/m</b> | Grid 8 <b>M4</b><br><b>27.8 dBV/m</b>  | Grid 9 <b>M4</b><br><b>28.26 dBV/m</b> |

**Cursor:**

Total = 29.87 dBV/m

E Category: M4

Location: -4.5, -25, 8.7 mm



0 dB = 31.16 V/m = 29.87 dBV/m

### #08\_HAC\_E\_GSM1900\_GSM Voice\_Ch810

Communication System: GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2017/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2016/11/17
- 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 = 14.79 V/m; Power Drift = -0.17 dB

Applied MIF = 3.63 dB

RF audio interference level = 30.75 dBV/m

**Emission category: M3**

MIF scaled E-field

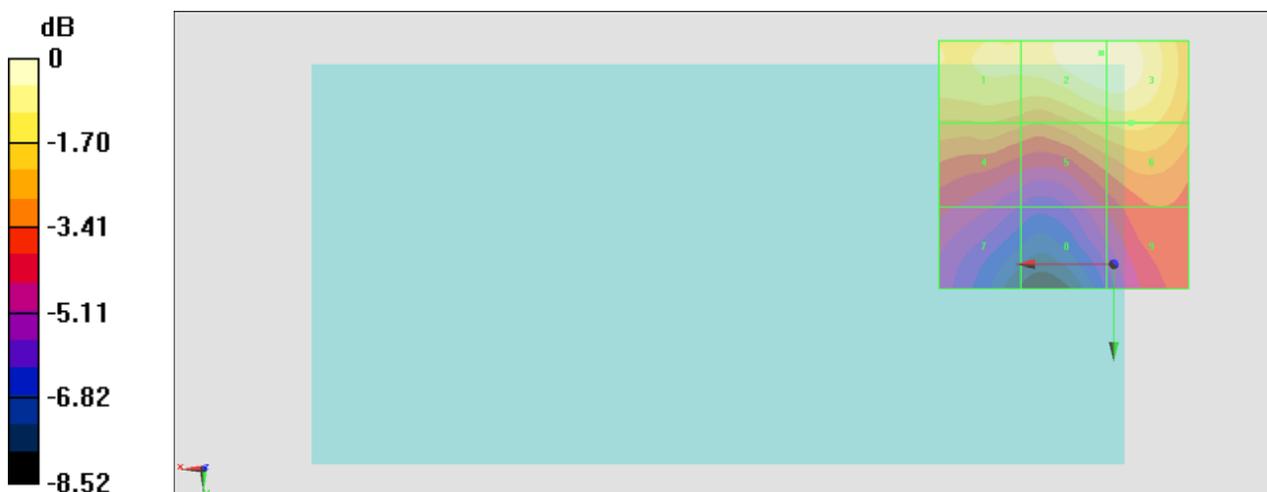
|  |  |  |
|--|--|--|
| Grid 1 <b>M4</b><br><b>29.76 dBV/m</b> | Grid 2 <b>M3</b><br><b>30.75 dBV/m</b> | Grid 3 <b>M3</b><br><b>30.74 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>28.49 dBV/m</b> | Grid 5 <b>M4</b><br><b>29.08 dBV/m</b> | Grid 6 <b>M4</b><br><b>29.27 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>26.4 dBV/m</b>  | Grid 8 <b>M4</b><br><b>26.35 dBV/m</b> | Grid 9 <b>M4</b><br><b>27.34 dBV/m</b> |

**Cursor:**

Total = 30.75 dBV/m

E Category: M3

Location: 2.5, -42.5, 8.7 mm



0 dB = 34.47 V/m = 30.75 dBV/m