

**#01\_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: 2016/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn495; Calibrated: 2016/5/27
- 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 = 19.27 V/m; Power Drift = -0.05 dB

Applied MIF = 3.63 dB

RF audio interference level = 27.67 dBV/m

**Emission category: M4**

MIF scaled E-field

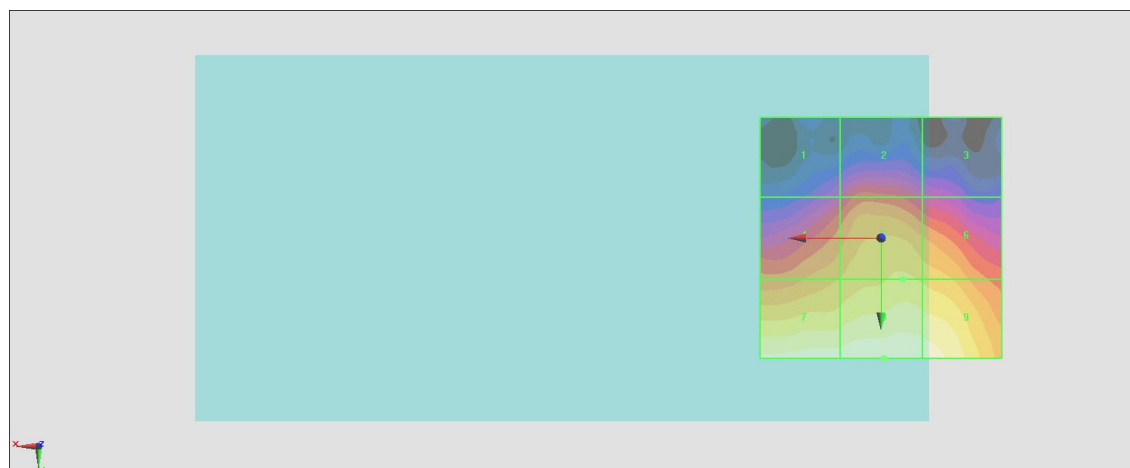
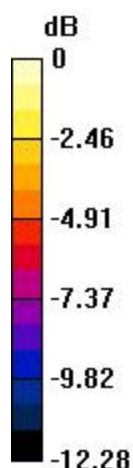
|                                        |                                        |                                        |
|----------------------------------------|----------------------------------------|----------------------------------------|
| Grid 1 <b>M4</b><br><b>20.7 dBV/m</b>  | Grid 2 <b>M4</b><br><b>22.46 dBV/m</b> | Grid 3 <b>M4</b><br><b>20.81 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>24.45 dBV/m</b> | Grid 5 <b>M4</b><br><b>25.4 dBV/m</b>  | Grid 6 <b>M4</b><br><b>25.09 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>27.31 dBV/m</b> | Grid 8 <b>M4</b><br><b>27.67 dBV/m</b> | Grid 9 <b>M4</b><br><b>27.38 dBV/m</b> |

**Cursor:**

Total = 27.67 dBV/m

E Category: M4

Location: -0.5, 25, 8.7 mm



0 dB = 24.18 V/m = 27.67 dBV/m

**#02\_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 : 23.5 °C

**DASY5 Configuration**

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2016/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn495; Calibrated: 2016/5/27
- 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 = 17.41 V/m; Power Drift = -0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 30.71 dBV/m

**Emission category: M3**

MIF scaled E-field

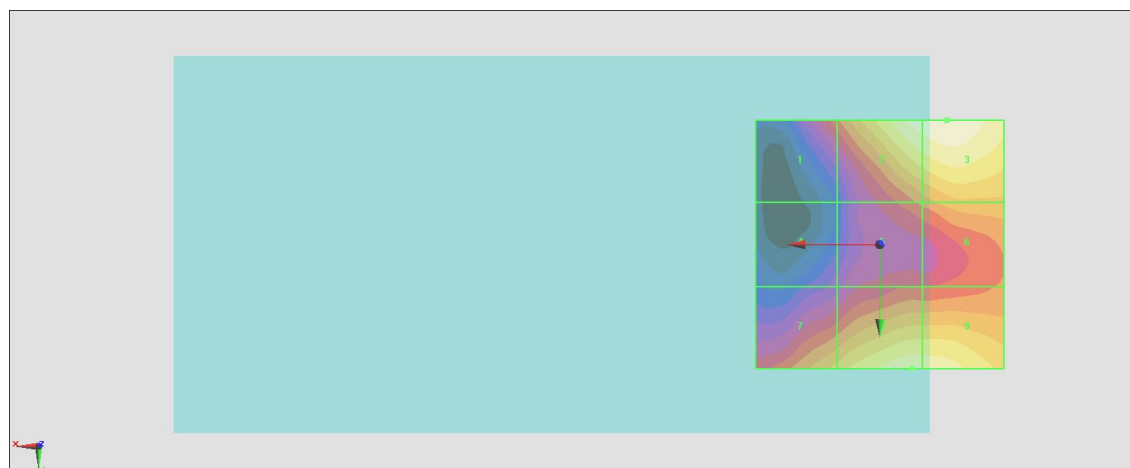
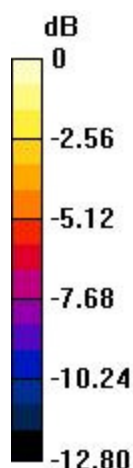
|                                        |                                        |                                        |
|----------------------------------------|----------------------------------------|----------------------------------------|
| Grid 1 <b>M4</b><br><b>25.48 dBV/m</b> | Grid 2 <b>M3</b><br><b>30.36 dBV/m</b> | Grid 3 <b>M3</b><br><b>30.71 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>22.78 dBV/m</b> | Grid 5 <b>M4</b><br><b>25.88 dBV/m</b> | Grid 6 <b>M4</b><br><b>27.11 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>27.68 dBV/m</b> | Grid 8 <b>M4</b><br><b>29.65 dBV/m</b> | Grid 9 <b>M4</b><br><b>29.59 dBV/m</b> |

**Cursor:**

Total = 30.71 dBV/m

E Category: M3

Location: -13.5, -25, 8.7 mm



0 dB = 34.33 V/m = 30.71 dBV/m

**#03\_HAC\_E\_LTE Band 38\_20M\_QPSK\_1\_0\_Ch38000**

Communication System: LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2595 MHz; Duty Cycle: 1:1.59

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

Ambient Temperature : 23.5 °C

**DASY5 Configuration**

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2016/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn495; Calibrated: 2016/5/27
- 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)

**Ch38000/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 = 6.321 V/m; Power Drift = -0.13 dB

Applied MIF = -1.62 dB

RF audio interference level = 22.08 dBV/m

**Emission category: M4**

MIF scaled E-field

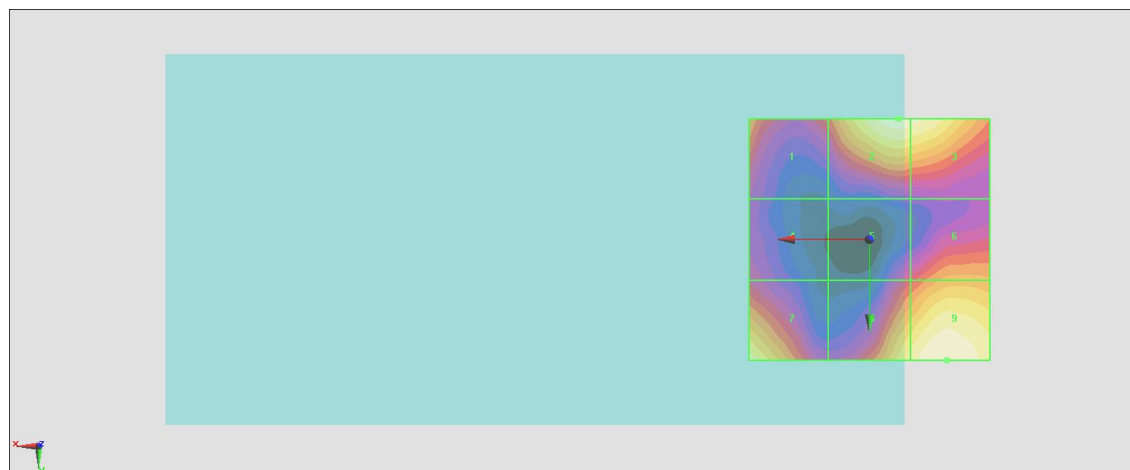
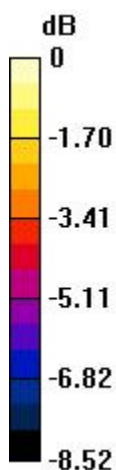
|                                        |                                        |                                        |
|----------------------------------------|----------------------------------------|----------------------------------------|
| Grid 1 <b>M4</b><br><b>19.52 dBV/m</b> | Grid 2 <b>M4</b><br><b>21.89 dBV/m</b> | Grid 3 <b>M4</b><br><b>21.79 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>17.58 dBV/m</b> | Grid 5 <b>M4</b><br><b>17.89 dBV/m</b> | Grid 6 <b>M4</b><br><b>19.56 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>21.42 dBV/m</b> | Grid 8 <b>M4</b><br><b>21.24 dBV/m</b> | Grid 9 <b>M4</b><br><b>22.08 dBV/m</b> |

**Cursor:**

Total = 22.08 dBV/m

E Category: M4

Location: -16, 25, 8.7 mm



0 dB = 12.71 V/m = 22.08 dBV/m

**#04\_HAC\_E\_LTE Band 38\_20M\_16QAM\_1\_0\_Ch38000**

Communication System: LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM); Frequency: 2595 MHz; Duty Cycle: 1:1.59

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

Ambient Temperature : 23.5 °C

**DASY5 Configuration**

- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2016/1/19;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn495; Calibrated: 2016/5/27
- 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)

**Ch38000/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 = 5.205 V/m; Power Drift = -0.15 dB

Applied MIF = -1.44 dB

RF audio interference level = 20.37 dBV/m

**Emission category: M4**

MIF scaled E-field

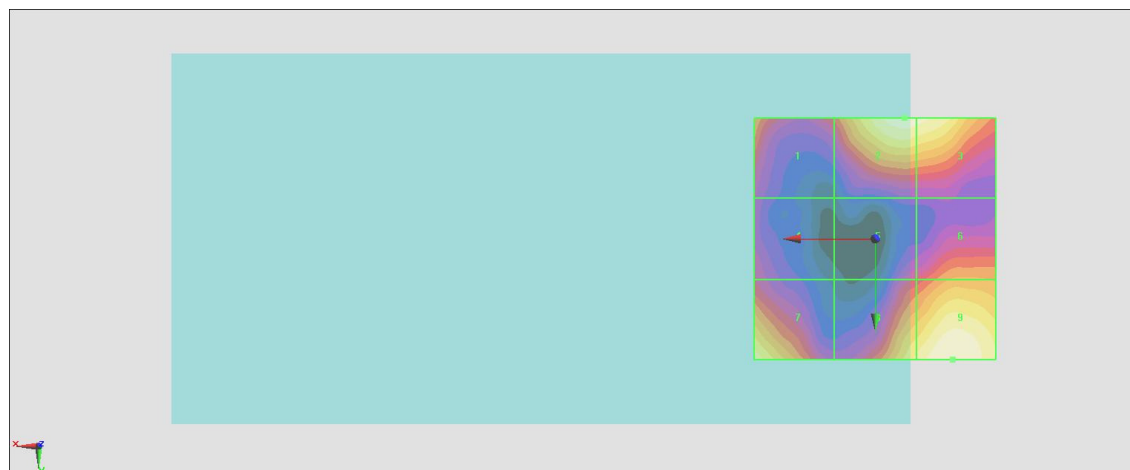
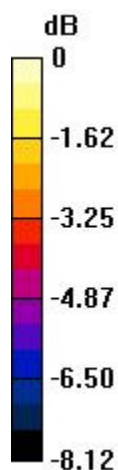
|                                        |                                        |                                        |
|----------------------------------------|----------------------------------------|----------------------------------------|
| Grid 1 <b>M4</b><br><b>17.82 dBV/m</b> | Grid 2 <b>M4</b><br><b>20.16 dBV/m</b> | Grid 3 <b>M4</b><br><b>20.05 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>16.14 dBV/m</b> | Grid 5 <b>M4</b><br><b>16.25 dBV/m</b> | Grid 6 <b>M4</b><br><b>17.83 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>19.7 dBV/m</b>  | Grid 8 <b>M4</b><br><b>19.45 dBV/m</b> | Grid 9 <b>M4</b><br><b>20.37 dBV/m</b> |

**Cursor:**

Total = 20.37 dBV/m

E Category: M4

Location: -16, 25, 8.7 mm



0 dB = 10.43 V/m = 20.37 dBV/m