

## HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 5/28/2013
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

## GSM850 E-Field measurement/Voice\_ch 128/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 = 75.40 V/m; Power Drift = -0.01 dB

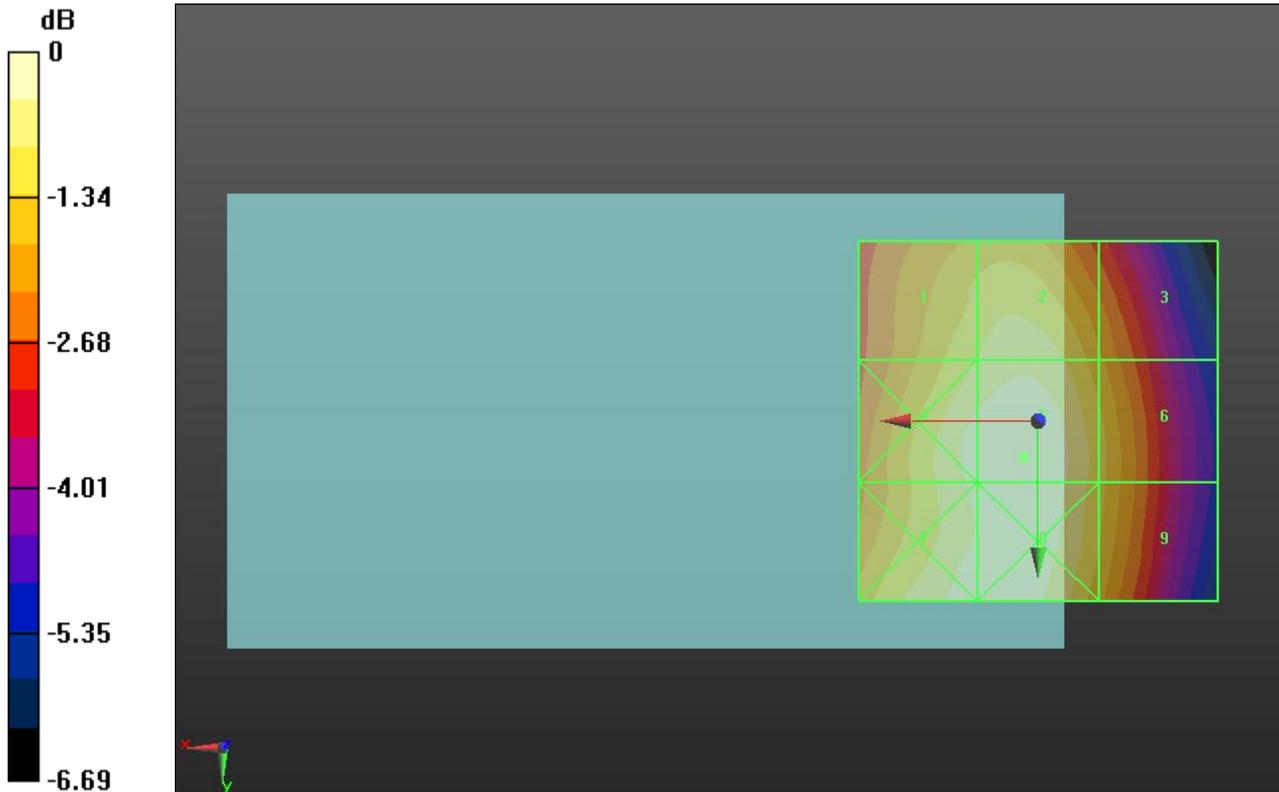
Applied MIF = 3.63 dB

RF audio interference level = 38.78 dBV/m

Emission category: **M4**

MIF scaled E-field

|  |  |  |
|--|--|--|
| Grid 1 <b>M4</b><br><b>37.91 dBV/m</b> | Grid 2 <b>M4</b><br><b>38.22 dBV/m</b> | Grid 3 <b>M4</b><br><b>37.11 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>38.52 dBV/m</b> | Grid 5 <b>M4</b><br><b>38.78 dBV/m</b> | Grid 6 <b>M4</b><br><b>37.64 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>38.58 dBV/m</b> | Grid 8 <b>M4</b><br><b>38.72 dBV/m</b> | Grid 9 <b>M4</b><br><b>37.6 dBV/m</b>  |



0 dB = 86.86 V/m = 38.78 dBV/m

## HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 5/28/2013
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

## GSM850 E-Field measurement/Voice\_ch 190/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 = 81.48 V/m; Power Drift = -0.04 dB

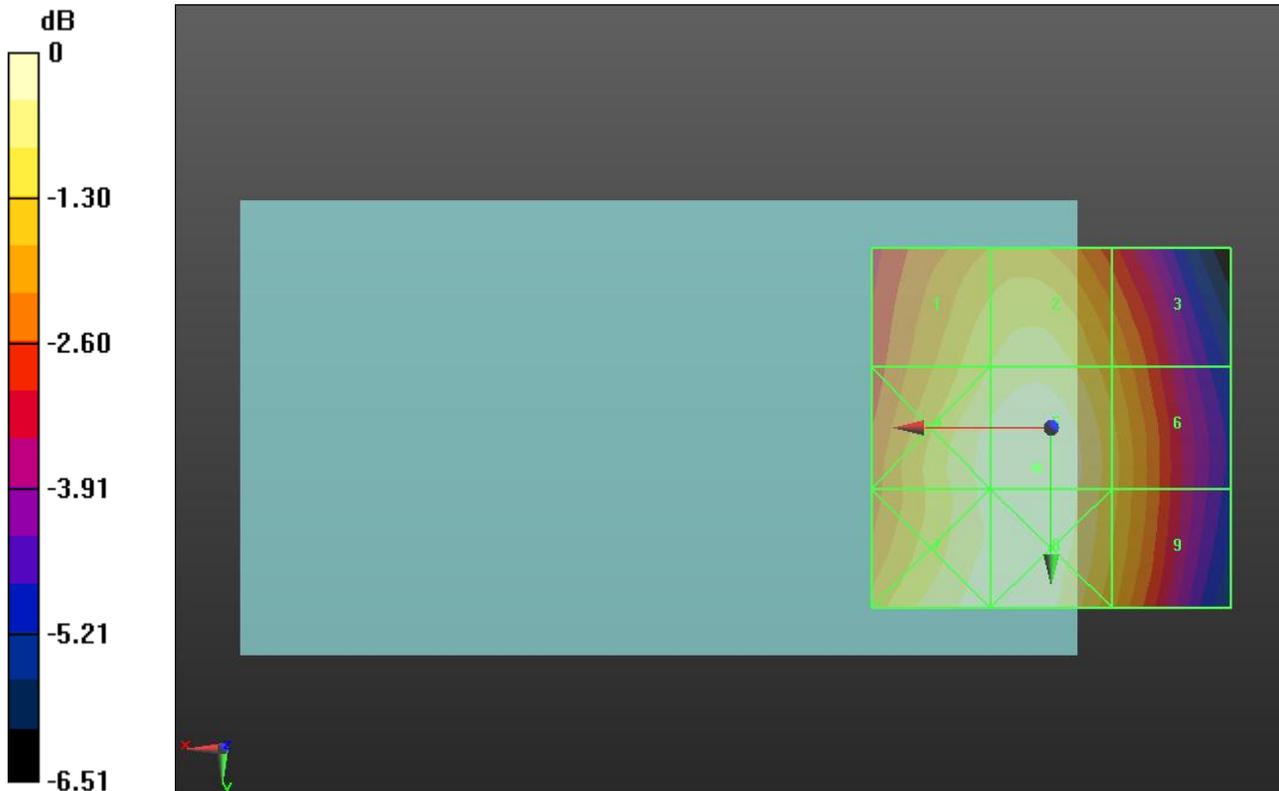
Applied MIF = 3.63 dB

RF audio interference level = 39.46 dBV/m

**Emission category: M4**

MIF scaled E-field

|  |  |  |
|--|--|--|
| Grid 1 <b>M4</b><br><b>38.61 dBV/m</b> | Grid 2 <b>M4</b><br><b>38.91 dBV/m</b> | Grid 3 <b>M4</b><br><b>37.86 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>39.21 dBV/m</b> | Grid 5 <b>M4</b><br><b>39.46 dBV/m</b> | Grid 6 <b>M4</b><br><b>38.35 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>39.26 dBV/m</b> | Grid 8 <b>M4</b><br><b>39.43 dBV/m</b> | Grid 9 <b>M4</b><br><b>38.3 dBV/m</b>  |



0 dB = 93.98 V/m = 39.46 dBV/m

## HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 5/28/2013
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

## GSM850 E-Field measurement/Voice\_ch 251/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 = 78.86 V/m; Power Drift = 0.02 dB

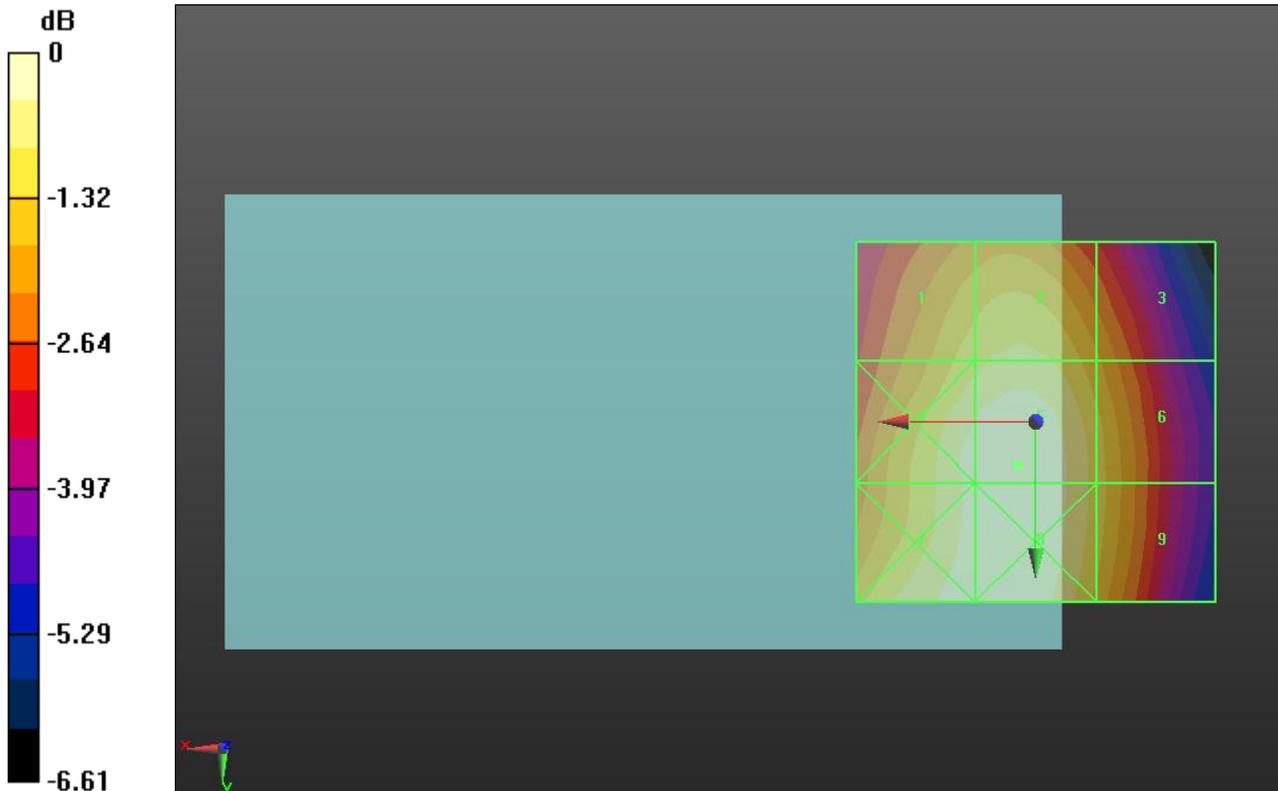
Applied MIF = 3.63 dB

RF audio interference level = 39.25 dBV/m

**Emission category: M4**

MIF scaled E-field

|  |  |  |
|--|--|--|
| Grid 1 <b>M4</b><br><b>38.24 dBV/m</b> | Grid 2 <b>M4</b><br><b>38.52 dBV/m</b> | Grid 3 <b>M4</b><br><b>37.59 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>39.01 dBV/m</b> | Grid 5 <b>M4</b><br><b>39.25 dBV/m</b> | Grid 6 <b>M4</b><br><b>38.17 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>39.17 dBV/m</b> | Grid 8 <b>M4</b><br><b>39.23 dBV/m</b> | Grid 9 <b>M4</b><br><b>38.18 dBV/m</b> |



0 dB = 91.70 V/m = 39.25 dBV/m

## HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 5/28/2013
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

## GSM1900 E-Field measurement/Voice\_ch 512/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 = 20.50 V/m; Power Drift = 0.00 dB

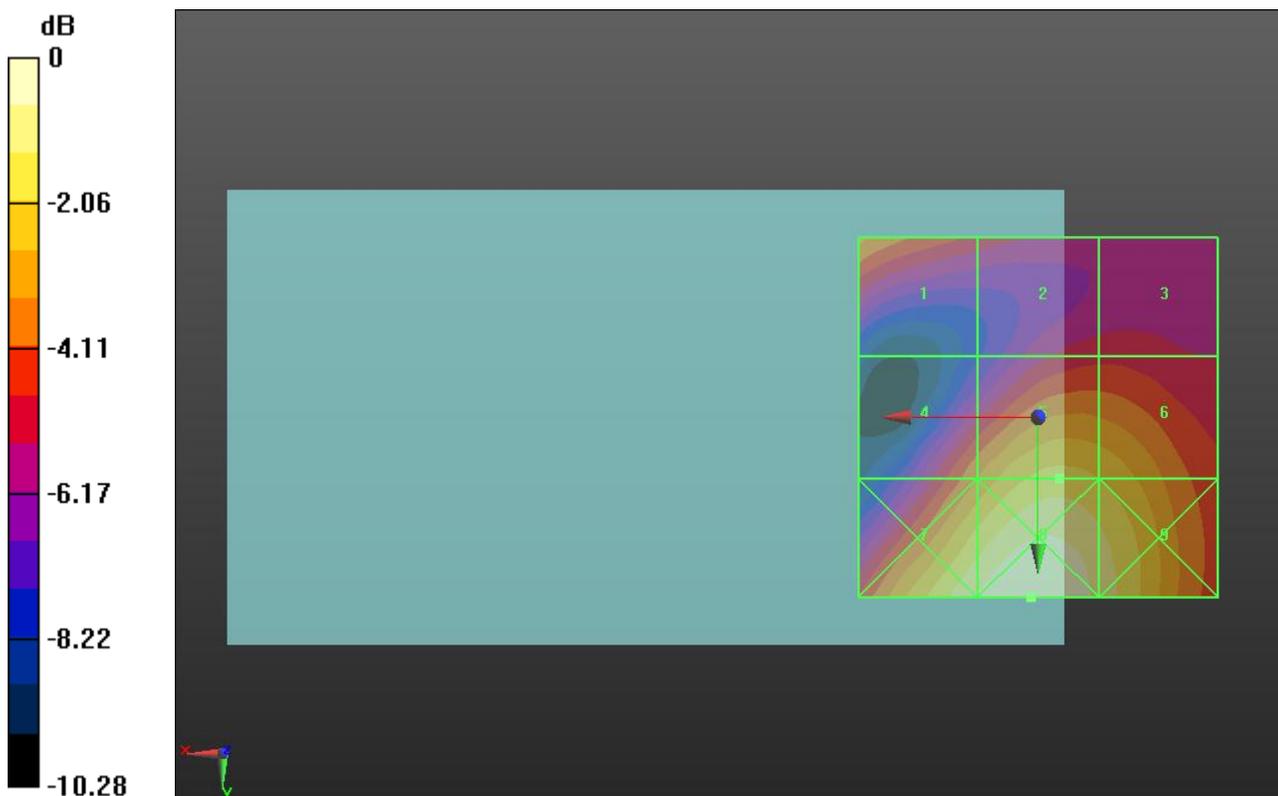
Applied MIF = 3.63 dB

RF audio interference level = 29.41 dBV/m

Emission category: **M4**

MIF scaled E-field

|  |  |  |
|--|--|--|
| Grid 1 <b>M4</b><br><b>28 dBV/m</b>    | Grid 2 <b>M4</b><br><b>26.25 dBV/m</b> | Grid 3 <b>M4</b><br><b>26.2 dBV/m</b>  |
| Grid 4 <b>M4</b><br><b>27.75 dBV/m</b> | Grid 5 <b>M4</b><br><b>29.41 dBV/m</b> | Grid 6 <b>M4</b><br><b>29.1 dBV/m</b>  |
| Grid 7 <b>M3</b><br><b>30.56 dBV/m</b> | Grid 8 <b>M3</b><br><b>31.17 dBV/m</b> | Grid 9 <b>M3</b><br><b>30.27 dBV/m</b> |



0 dB = 36.17 V/m = 31.17 dBV/m

## HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 5/28/2013
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

## GSM1900 E-Field measurement/Voice\_ch 661/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 = 15.32 V/m; Power Drift = -0.03 dB

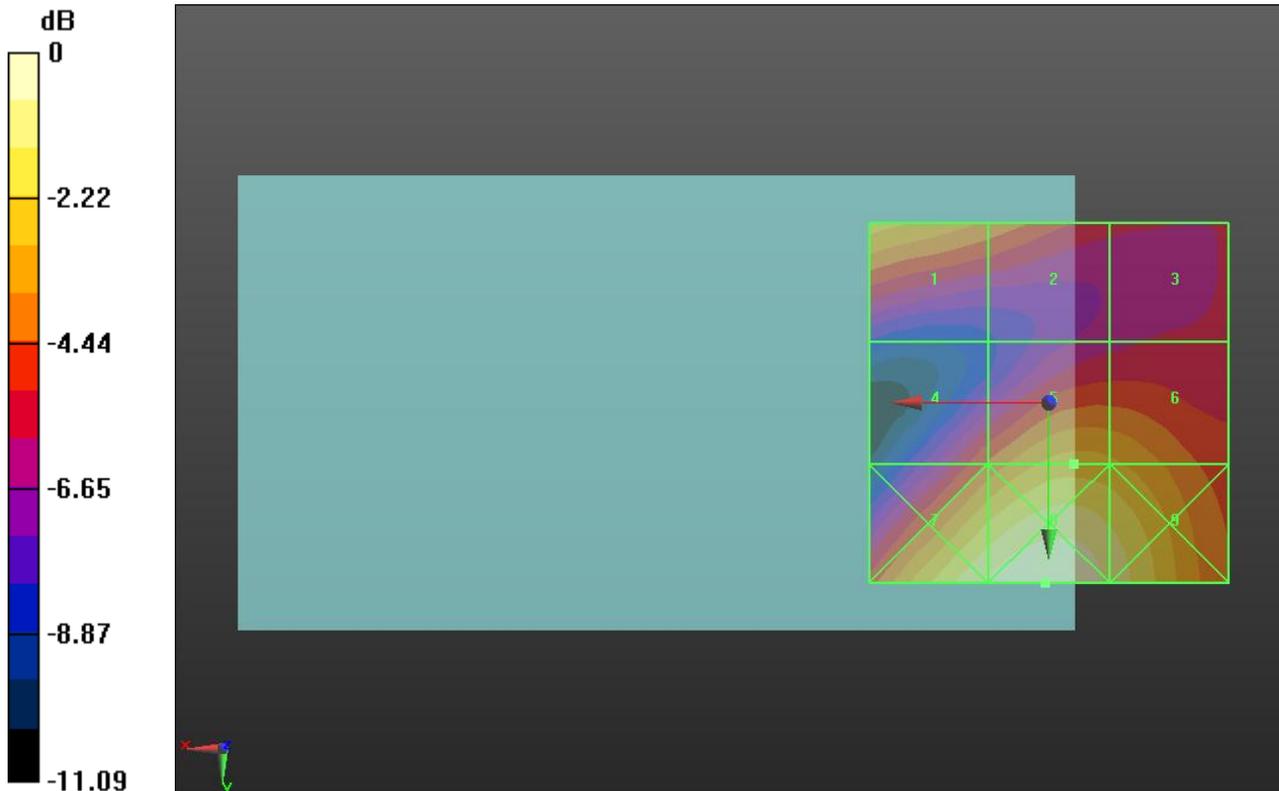
Applied MIF = 3.63 dB

RF audio interference level = 27.76 dBV/m

Emission category: **M4**

MIF scaled E-field

|  |  |  |
|--|--|--|
| Grid 1 <b>M4</b><br><b>27.75 dBV/m</b> | Grid 2 <b>M4</b><br><b>26.56 dBV/m</b> | Grid 3 <b>M4</b><br><b>24.75 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>26.03 dBV/m</b> | Grid 5 <b>M4</b><br><b>27.76 dBV/m</b> | Grid 6 <b>M4</b><br><b>27.58 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>29.75 dBV/m</b> | Grid 8 <b>M3</b><br><b>30.35 dBV/m</b> | Grid 9 <b>M4</b><br><b>29.43 dBV/m</b> |



0 dB = 32.93 V/m = 30.35 dBV/m

## HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.6896

Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2509; ConvF(1, 1, 1); Calibrated: 5/29/2013;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 5/28/2013
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

## GSM1900 E-Field measurement/Voice\_ch 810/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 = 12.23 V/m; Power Drift = -0.04 dB

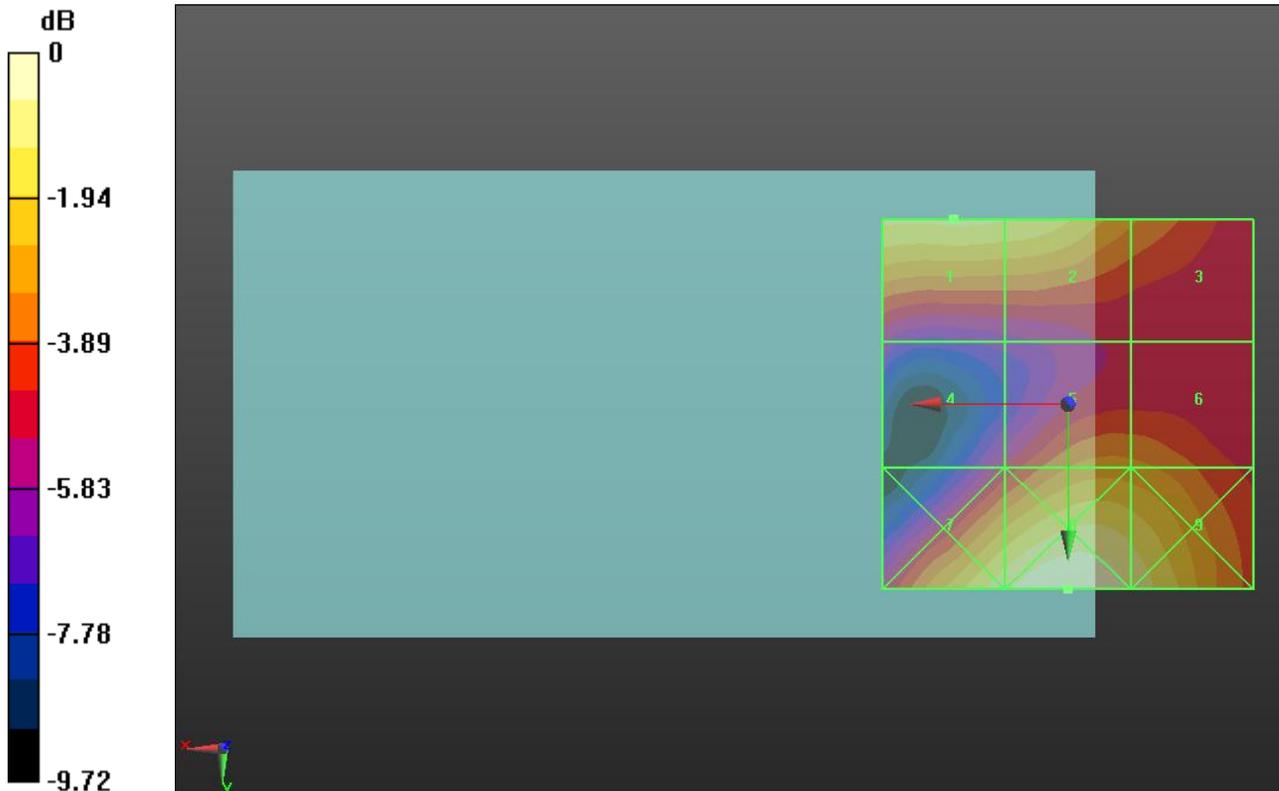
Applied MIF = 3.63 dB

RF audio interference level = 27.81 dBV/m

**Emission category: M4**

MIF scaled E-field

|  |  |  |
|--|--|--|
| Grid 1 <b>M4</b><br><b>27.81 dBV/m</b> | Grid 2 <b>M4</b><br><b>27.68 dBV/m</b> | Grid 3 <b>M4</b><br><b>25.82 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>23.89 dBV/m</b> | Grid 5 <b>M4</b><br><b>26 dBV/m</b>    | Grid 6 <b>M4</b><br><b>25.9 dBV/m</b>  |
| Grid 7 <b>M4</b><br><b>28.13 dBV/m</b> | Grid 8 <b>M4</b><br><b>28.89 dBV/m</b> | Grid 9 <b>M4</b><br><b>28.15 dBV/m</b> |



0 dB = 27.84 V/m = 28.89 dBV/m