



## Appendix A. System Check Plots

<b>Table of contents</b>
SystemPerformanceCheck-CD835-ER3DV6
SystemPerformanceCheck-CD1880- ER3DV6

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-CD835\_ER3DV6

**DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: SN:1114**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY Configuration:

- ε Probe: ER3DV6 - SN2441; ConvF(1, 1, 1); Calibrated: 2017-11-17;
- ε Sensor-Surface: (Fix Surface),  $z = 9.7$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1053
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - measurement distance from the probe sensor center to CD835 = 10mm & 15mm/Hearing Aid Compatibility Test at 15mm distance (41x361x1): Interpolated grid:**

$dx=0.5000$  mm,  $dy=0.5000$  mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 139.1 V/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 121.2 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

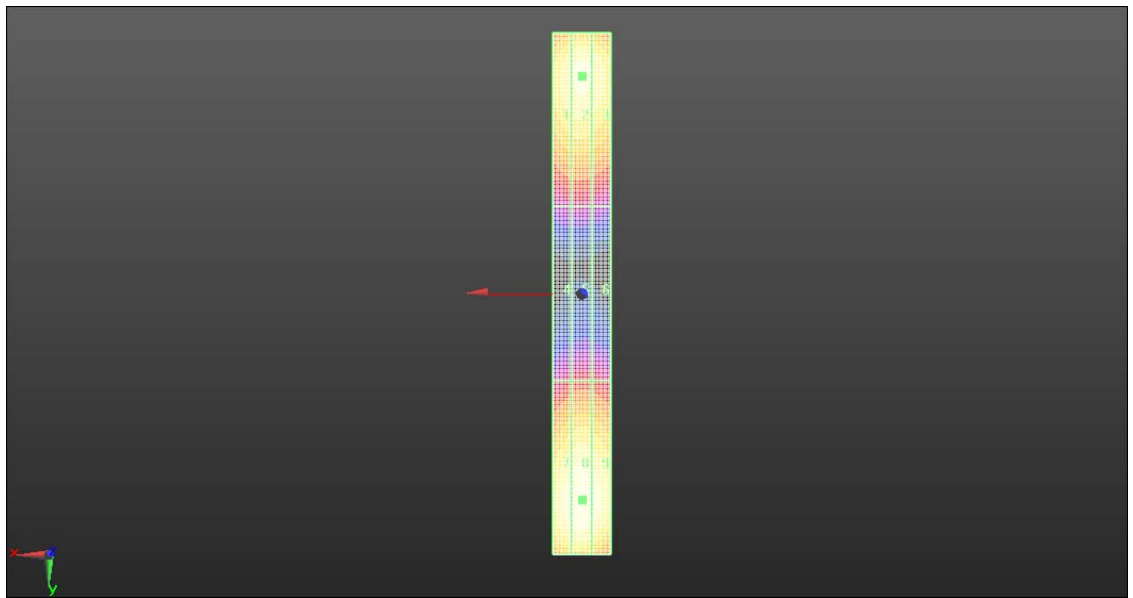
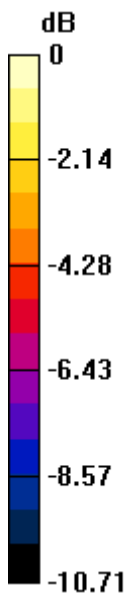
Grid 1 <b>M4</b> <b>111.7 V/m</b>	Grid 2 <b>M4</b> <b>114.6 V/m</b>	Grid 3 <b>M4</b> <b>111.7 V/m</b>
Grid 4 <b>M4</b> <b>67.05 V/m</b>	Grid 5 <b>M4</b> <b>69.40 V/m</b>	Grid 6 <b>M4</b> <b>68.25 V/m</b>
Grid 7 <b>M4</b> <b>118.4 V/m</b>	Grid 8 <b>M4</b> <b>121.2 V/m</b>	Grid 9 <b>M4</b> <b>117.6 V/m</b>

**Cursor:**

Total = 121.2 V/m

E Category: M4

Location: 0, 71, 9.7 mm



0 dB = 121.2 V/m = 41.67 dBV/m

Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-CD1880\_ER3DV6

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1100**

Communication System: UID 0, CW (0); Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY Configuration:

- ε Probe: ER3DV6 - SN2441; ConvF(1, 1, 1); Calibrated: 2017-11-17;
- ε Sensor-Surface: (Fix Surface),  $z = 9.7$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1053
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - measurement distance from the probe sensor center to CD1880 = 10mm & 15mm/Hearing Aid Compatibility Test at 15mm distance (41x361x1):** Interpolated grid:

$dx=0.5000$  mm,  $dy=0.5000$  mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 154.6 V/m; Power Drift = 0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 92.78 V/m

**Near-field category: M3 (AWF 0 dB)**

PMF scaled E-field

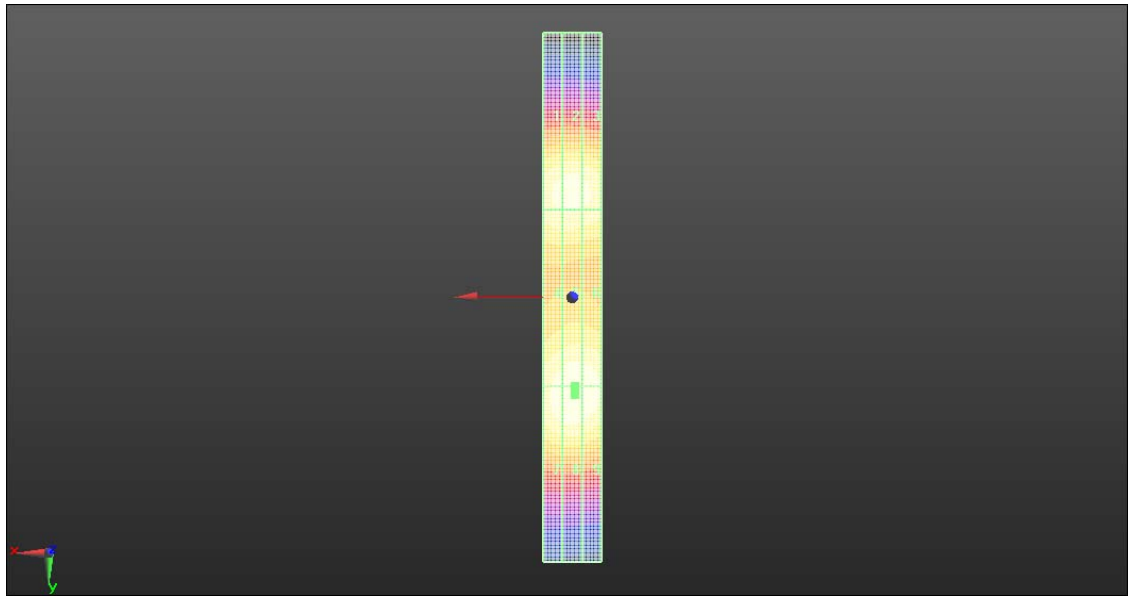
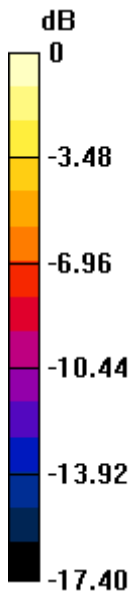
Grid 1 M3 <b>85.98 V/m</b>	Grid 2 M3 <b>87.66 V/m</b>	Grid 3 M3 <b>85.27 V/m</b>
Grid 4 M3 <b>87.86 V/m</b>	Grid 5 M3 <b>91.97 V/m</b>	Grid 6 M3 <b>90.81 V/m</b>
Grid 7 M3 <b>89.09 V/m</b>	Grid 8 M3 <b>92.78 V/m</b>	Grid 9 M3 <b>91.45 V/m</b>

**Cursor:**

Total = 92.78 V/m

E Category: M3

Location: -1, 33, 9.7 mm



0 dB = 92.78 V/m = 39.35 dBV/m