



## Appendix A. System Check Plots

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Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-CD835\_ER3DV6

**DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: SN:1114**

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

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

Phantom section: RF Section

DASY Configuration:

- Probe: ER3DV6 - SN2441; ConvF(1, 1, 1); Calibrated: 2013-11-29;
- Sensor-Surface: (Fix Surface), z = 9.7
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1053
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - measurement distance from the probe sensor center to CD835 = 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 = 129.8 V/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 112.6 V/m

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

PMF scaled E-field

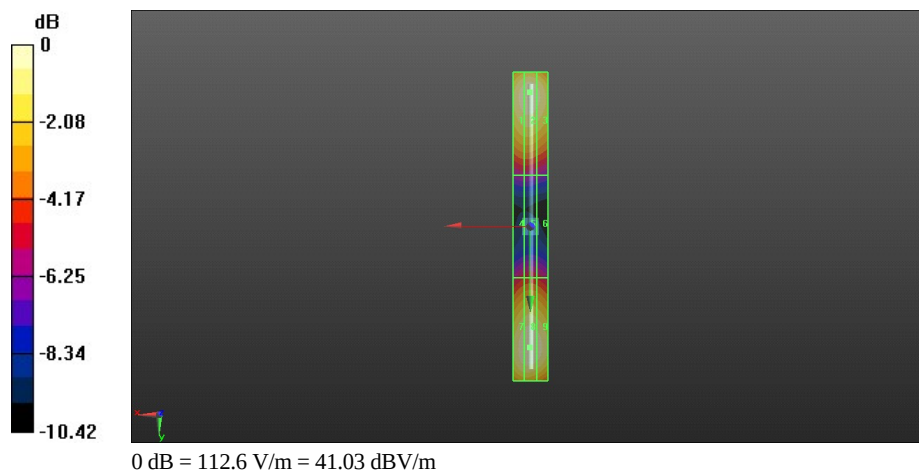
|                                      |                                      |                                      |
|--------------------------------------|--------------------------------------|--------------------------------------|
| Grid 1 <b>M4</b><br><b>109.5 V/m</b> | Grid 2 <b>M4</b><br><b>110.9 V/m</b> | Grid 3 <b>M4</b><br><b>107.5 V/m</b> |
| Grid 4 <b>M4</b><br><b>63.97 V/m</b> | Grid 5 <b>M4</b><br><b>65.12 V/m</b> | Grid 6 <b>M4</b><br><b>63.80 V/m</b> |
| Grid 7 <b>M4</b><br><b>110.8 V/m</b> | Grid 8 <b>M4</b><br><b>112.6 V/m</b> | Grid 9 <b>M4</b><br><b>109.8 V/m</b> |

### Cursor:

Total = 112.6 V/m

E Category: M4

Location: 0.5, 70.5, 9.7 mm



Test Laboratory: HUAWEI SAR/HAC Lab

## SystemPerformanceCheck-CD1880\_ER3DV6

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

Communication System: UID 0, CW; 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:

- Probe: ER3DV6 - SN2441; ConvF(1, 1, 1); Calibrated: 2013-11-29;
- Sensor-Surface: (Fix Surface), z = 9.7
- Electronics: DAE4 Sn1236; Calibrated: 2013-11-25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1053
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - measurement distance from the probe sensor center to CD1880 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1):** Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 140.6 V/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 90.81 V/m

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

PMF scaled E-field

|                                      |                                      |                                      |
|--------------------------------------|--------------------------------------|--------------------------------------|
| Grid 1 <b>M3</b><br><b>89.72 V/m</b> | Grid 2 <b>M3</b><br><b>90.67 V/m</b> | Grid 3 <b>M3</b><br><b>87.91 V/m</b> |
| Grid 4 <b>M3</b><br><b>69.28 V/m</b> | Grid 5 <b>M3</b><br><b>70.49 V/m</b> | Grid 6 <b>M3</b><br><b>69.55 V/m</b> |
| Grid 7 <b>M3</b><br><b>89.94 V/m</b> | Grid 8 <b>M3</b><br><b>90.81 V/m</b> | Grid 9 <b>M3</b><br><b>87.92 V/m</b> |

### Cursor:

Total = 90.81 V/m

E Category: M3

Location: 1, 32, 9.7 mm

