

# Appendix A

## Detailed System Check Results

1. System Check Results
System Performance Check 835 MHz
System Performance Check 1880 MHz
System Performance Check 2600 MHz

Test Laboratory: SGS-SAR Lab

## HAC-E-Dipole CD835V3

**DUT: CD835V3; Type: CD835V3; Serial: 1052**

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

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: ER3DV6 - SN2344; ConvF(1, 1, 1); Calibrated: 2020-06-23
- Sensor-Surface: 0mm (Fix Surface), Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1327; Calibrated: 2020-10-20
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Dipole E-Field measurement/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 = 126.3 V/m; Power Drift = -0.12 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 113.8 V/m

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

PMF scaled E-field

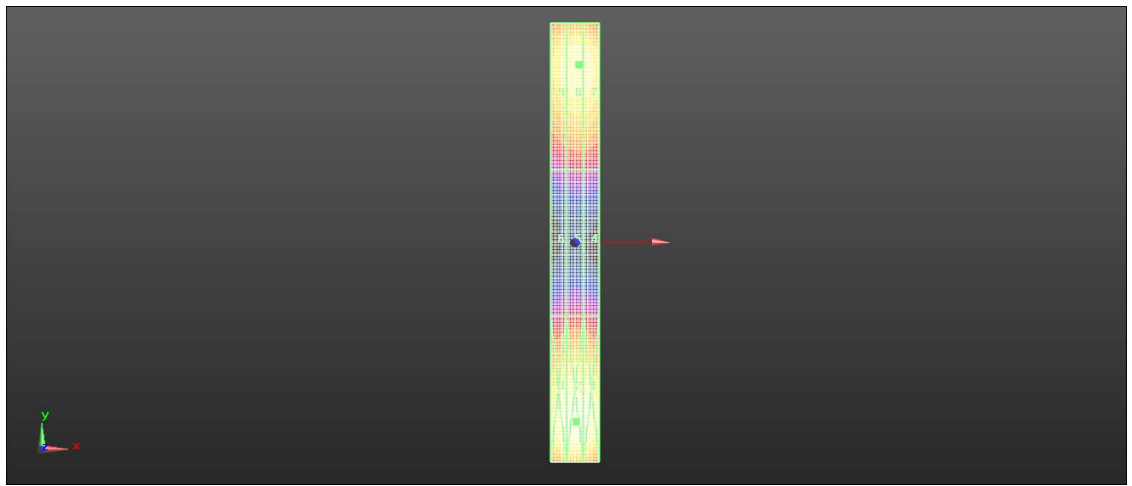
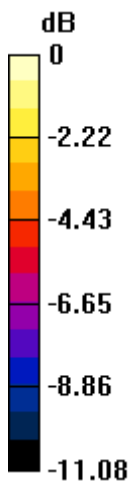
Grid 1 M4 <b>121.6 V/m</b>	Grid 2 M4 <b>123.3 V/m</b>	Grid 3 M4 <b>119.2 V/m</b>
Grid 4 M4 <b>65.14 V/m</b>	Grid 5 M4 <b>65.93 V/m</b>	Grid 6 M4 <b>64.25 V/m</b>
Grid 7 M4 <b>112.9 V/m</b>	Grid 8 M4 <b>113.8 V/m</b>	Grid 9 M4 <b>109.2 V/m</b>

**Cursor:**

Total = 123.3 V/m

E Category: M4

Location: 0.5, -73.5, 8.7 mm



0 dB = 122.8 V/m = 41.78 dBV/m

Test Laboratory: SGS-SAR Lab

## HAC-E-Dipole CD1880V3

**DUT: CD1880V3; Type: CD1880V3; Serial: 1044**

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

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: ER3DV6 - SN2344; ConvF(1, 1, 1); Calibrated: 2020-06-23
- Sensor-Surface: 0mm (Fix Surface), Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1327; Calibrated: 2020-10-20
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 = 10mm & 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 = 171.7 V/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 87.91 V/m

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

PMF scaled E-field

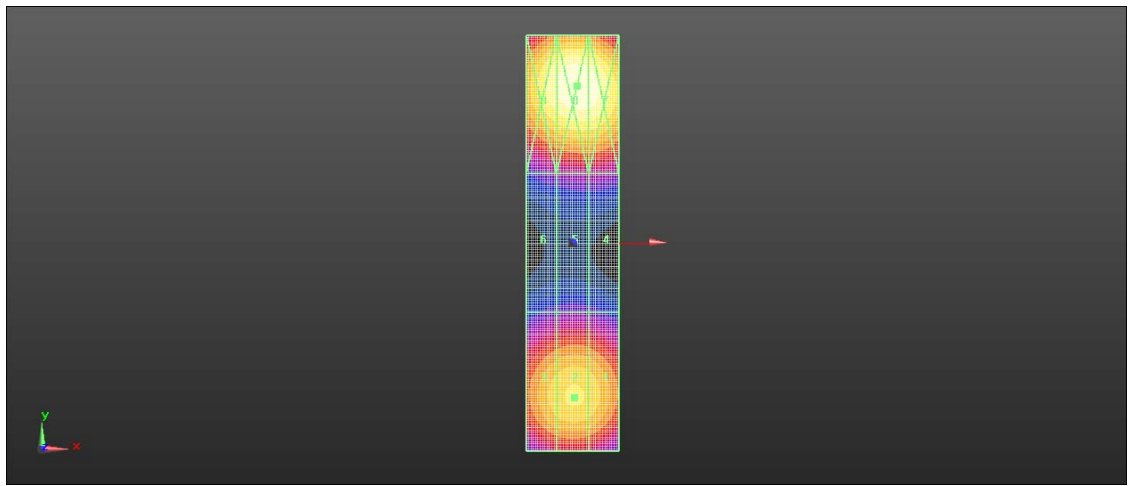
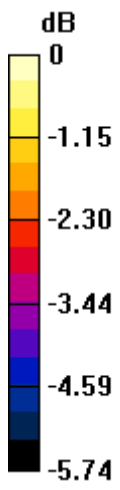
Grid 1 <b>M3</b> <b>86.52 V/m</b>	Grid 2 <b>M3</b> <b>87.91 V/m</b>	Grid 3 <b>M3</b> <b>85.72 V/m</b>
Grid 4 <b>M3</b> <b>67.28 V/m</b>	Grid 5 <b>M3</b> <b>67.28 V/m</b>	Grid 6 <b>M3</b> <b>65.27 V/m</b>
Grid 7 <b>M3</b> <b>98.64 V/m</b>	Grid 8 <b>M3</b> <b>99.58 V/m</b>	Grid 9 <b>M3</b> <b>95.63 V/m</b>

**Cursor:**

Total = 99.58 V/m

E Category: M3

Location: 1, 34, 8.7 mm



0 dB = 99.06 V/m = 39.92 dBV/m

Test Laboratory: SGS-SAR Lab

## HAC-E-Dipole CD2600V3

**DUT: CD2600V3; Type: CD2600V3; Serial: 1021**

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: ER3DV6 - SN2344; ConvF(1, 1, 1); Calibrated: 2020-06-23
- Sensor-Surface: 0mm (Fix Surface), Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1327; Calibrated: 2020-10-20
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD2600 = 10mm & 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 = 69.84 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 84.04 V/m

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

PMF scaled E-field

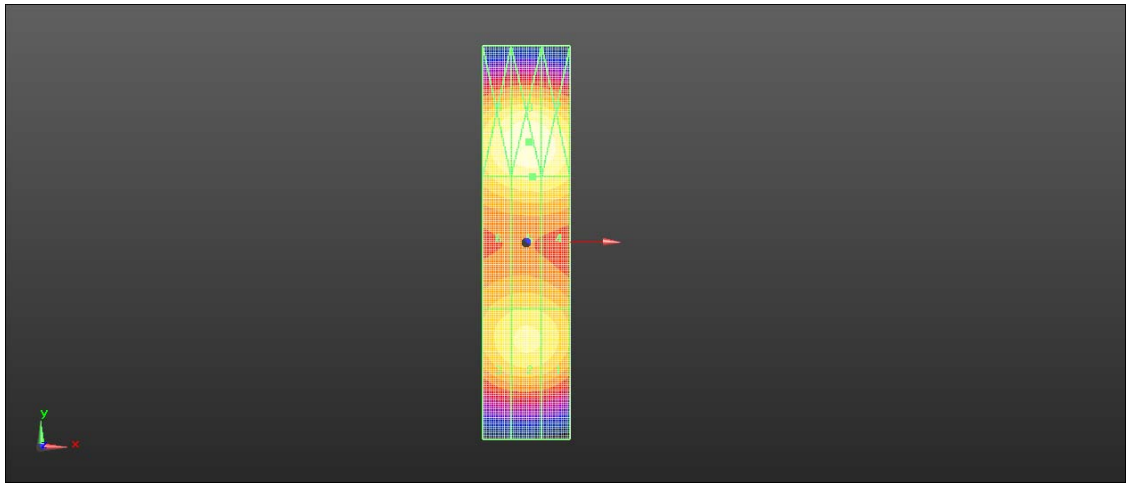
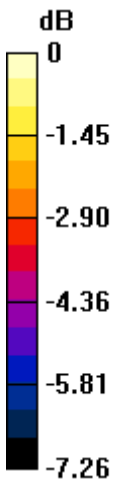
Grid 1 <b>M3</b> <b>82.54 V/m</b>	Grid 2 <b>M3</b> <b>83.82 V/m</b>	Grid 3 <b>M3</b> <b>82.16 V/m</b>
Grid 4 <b>M3</b> <b>83.77 V/m</b>	Grid 5 <b>M3</b> <b>84.04 V/m</b>	Grid 6 <b>M3</b> <b>82.13 V/m</b>
Grid 7 <b>M3</b> <b>91.25 V/m</b>	Grid 8 <b>M3</b> <b>92.41 V/m</b>	Grid 9 <b>M3</b> <b>89.80 V/m</b>

**Cursor:**

Total = 92.41 V/m

E Category: M3

Location: 0.5, 23, 8.7 mm



0 dB = 91.43 V/m = 39.22 dBV/m