

# Appendix A

## Detailed System Check Results

1. SystemCheckResults
System Performance Check 835 MHz
System Performance Check 1880 MHz
System Performance Check 2450MHz
System Performance Check 2600 MHz

Test Laboratory: SGS-SAR Lab

**HAC-E-Dipole CD835V3****DUT: CD835V3; Type: CD835V3; Serial: 1030**

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: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2021-05-28
- Sensor-Surface: 0mm (Fix Surface), Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1428; Calibrated: 2021-04-09
- 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 = 137.4 V/m; Power Drift = -0.06 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 107.9 V/m

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

PMF scaled E-field

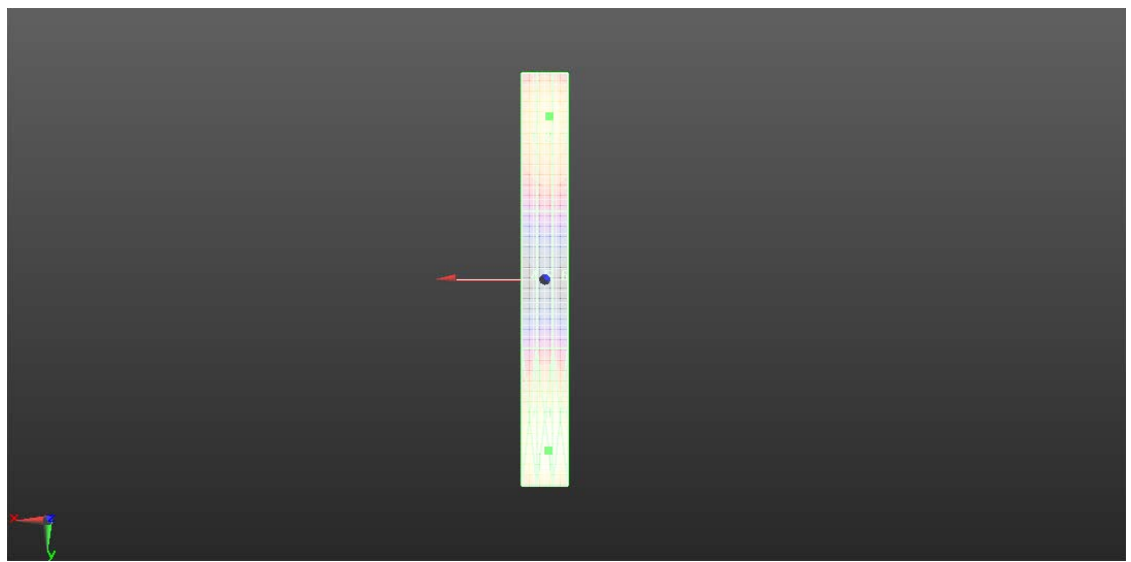
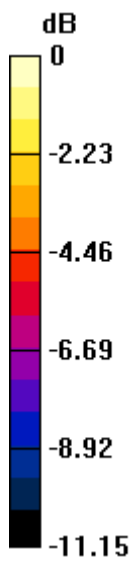
<b>Grid 1 M4</b> <b>103.3 V/m</b>	<b>Grid 2 M4</b> <b>107.9 V/m</b>	<b>Grid 3 M4</b> <b>107.5 V/m</b>
<b>Grid 4 M4</b> <b>64.79 V/m</b>	<b>Grid 5 M4</b> <b>66.75 V/m</b>	<b>Grid 6 M4</b> <b>66.23 V/m</b>
<b>Grid 7 M4</b> <b>124.9 V/m</b>	<b>Grid 8 M4</b> <b>131.3 V/m</b>	<b>Grid 9 M4</b> <b>130.3 V/m</b>

**Cursor:**

Total = 131.3 V/m

E Category: M4

Location: -1.5, 74.5, 8.7 mm



0 dB = 130.7 V/m = 42.33 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: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2021-05-28
- Sensor-Surface: 0mm (Fix Surface), Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1428; Calibrated: 2021-04-09
- 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 = 171.9 V/m; Power Drift = -0.12 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 87.53 V/m

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

PMF scaled E-field

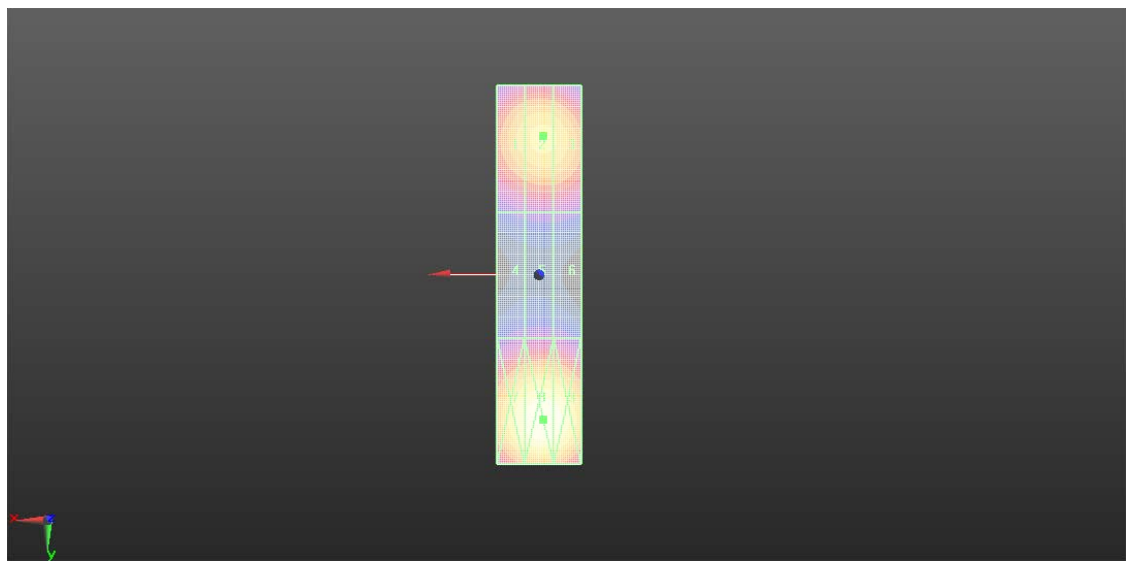
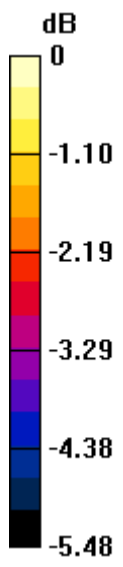
Grid 1 <b>M3</b> <b>84.89 V/m</b>	Grid 2 <b>M3</b> <b>87.53 V/m</b>	Grid 3 <b>M3</b> <b>86.73 V/m</b>
Grid 4 <b>M3</b> <b>64.66 V/m</b>	Grid 5 <b>M3</b> <b>65.50 V/m</b>	Grid 6 <b>M3</b> <b>65.09 V/m</b>
Grid 7 <b>M3</b> <b>94.11 V/m</b>	Grid 8 <b>M3</b> <b>97.65 V/m</b>	Grid 9 <b>M3</b> <b>96.53 V/m</b>

**Cursor:**

Total = 97.65 V/m

E Category: M3

Location: -1, 34.5, 8.7 mm



0 dB = 97.42 V/m = 39.77 dBV/m

Test Laboratory: SGS-SAR Lab

**HAC-E-Dipole CD2450V3****DUT: CD2450V3; Type: CD2450V3; Serial: 1044**

Communication System: UID 0, CW; Frequency: 2450 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: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2021-05-28
- Sensor-Surface: 0mm (Fix Surface), Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1428; Calibrated: 2021-04-09
- 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 CD2450 = 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 = 85.94 V/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 90.87 V/m

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

PMF scaled E-field

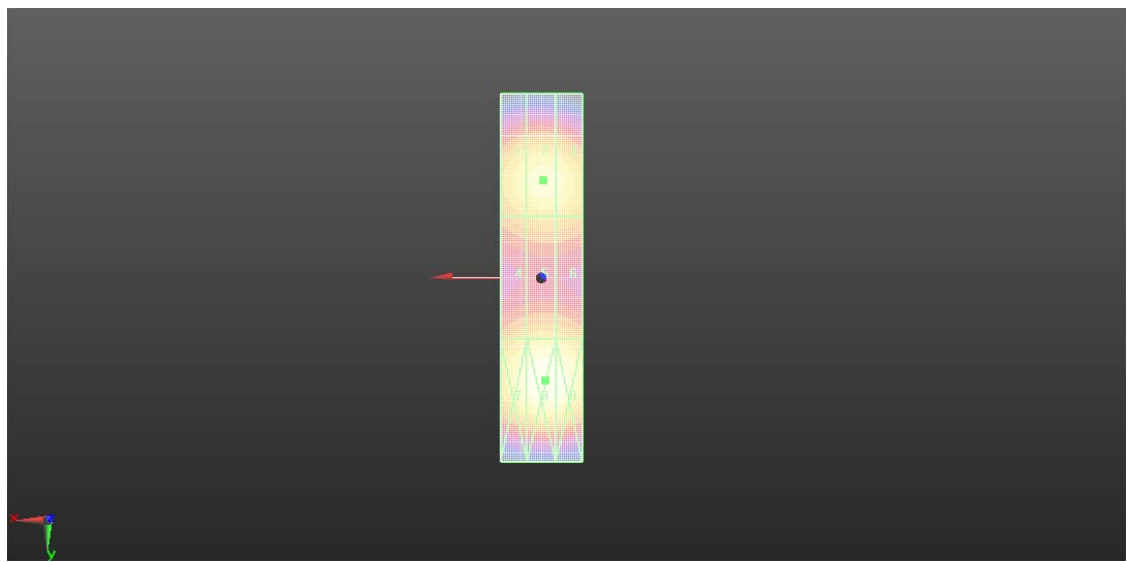
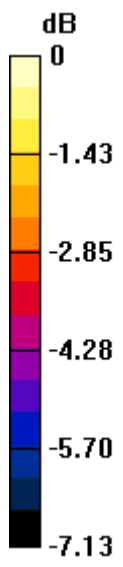
Grid 1 <b>M3</b> <b>88.39 V/m</b>	Grid 2 <b>M3</b> <b>90.87 V/m</b>	Grid 3 <b>M3</b> <b>89.92 V/m</b>
Grid 4 <b>M3</b> <b>81.48 V/m</b>	Grid 5 <b>M3</b> <b>83.79 V/m</b>	Grid 6 <b>M3</b> <b>83.20 V/m</b>
Grid 7 <b>M3</b> <b>94.36 V/m</b>	Grid 8 <b>M3</b> <b>98.52 V/m</b>	Grid 9 <b>M3</b> <b>97.42 V/m</b>

**Cursor:**

Total = 98.52 V/m

E Category: M3

Location: -1, 25, 8.7 mm



0 dB = 98.32 V/m = 39.85 dBV/m

Test Laboratory: SGS-SAR Lab

**HAC-E-Dipole CD2600V3 01****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: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2021-05-28
- Sensor-Surface: 0mm (Fix Surface), Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1428; Calibrated: 2021-04-09
- 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 = 71.91 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 86.13 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>83.29 V/m</b>	Grid 2 <b>M3</b> <b>86.13 V/m</b>	Grid 3 <b>M3</b> <b>85.80 V/m</b>
Grid 4 <b>M3</b> <b>81.68 V/m</b>	Grid 5 <b>M3</b> <b>83.21 V/m</b>	Grid 6 <b>M3</b> <b>82.36 V/m</b>
Grid 7 <b>M3</b> <b>89.59 V/m</b>	Grid 8 <b>M3</b> <b>92.39 V/m</b>	Grid 9 <b>M3</b> <b>90.92 V/m</b>

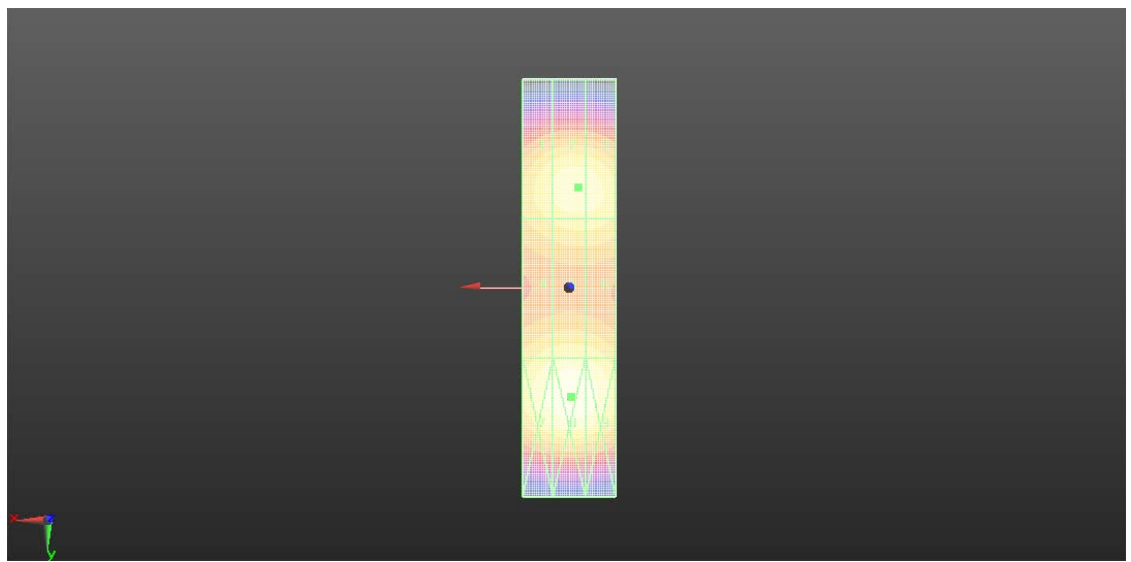
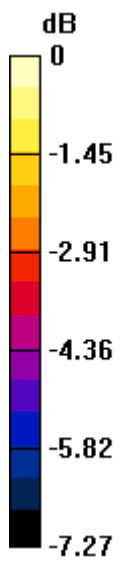
**Cursor:**

Total = 92.39 V/m

E Category: M3

Location: -0.5, 23.5, 8.7 mm





0 dB = 91.78 V/m = 39.25 dBV/m