



# **Appendix A**

## **Detailed System Check Results**

|                                   |
|-----------------------------------|
| 1. System Check Results           |
| System Performance Check 835 MHz  |
| System Performance Check 1880 MHz |
| System Performance Check 2450 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: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

### **Dipole E-Field measurement/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 = 125.4 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 114.3 V/m

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

PMF scaled E-field

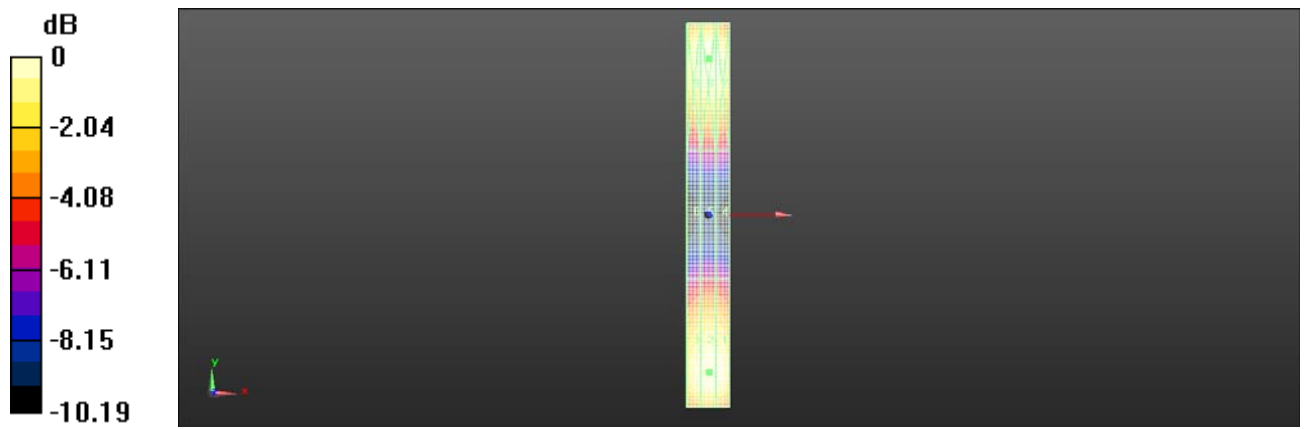
|                                      |                                      |                                      |
|--------------------------------------|--------------------------------------|--------------------------------------|
| Grid 1 <b>M4</b><br><b>112.8 V/m</b> | Grid 2 <b>M4</b><br><b>114.3 V/m</b> | Grid 3 <b>M4</b><br><b>110.7 V/m</b> |
| Grid 4 <b>M4</b><br><b>62.06 V/m</b> | Grid 5 <b>M4</b><br><b>62.38 V/m</b> | Grid 6 <b>M4</b><br><b>60.81 V/m</b> |
| Grid 7 <b>M4</b><br><b>112.9 V/m</b> | Grid 8 <b>M4</b><br><b>114.8 V/m</b> | Grid 9 <b>M4</b><br><b>111.6 V/m</b> |

#### **Cursor:**

Total = 114.8 V/m

E Category: M4

Location: 0.5, 73.5, 8.7 mm



0 dB = 114.8 V/m = 41.20 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: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

### Dipole E-Field measurement/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 = 153.8 V/m; Power Drift = 0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 94.88 V/m

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

PMF scaled E-field

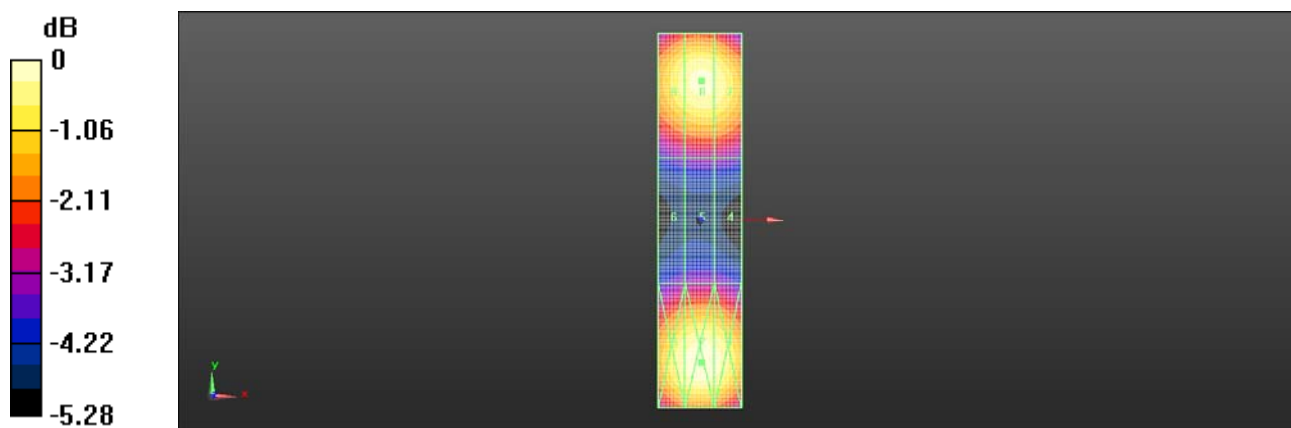
|                                      |                                      |                                      |
|--------------------------------------|--------------------------------------|--------------------------------------|
| Grid 1 <b>M3</b><br><b>95.48 V/m</b> | Grid 2 <b>M3</b><br><b>96.93 V/m</b> | Grid 3 <b>M3</b><br><b>94.11 V/m</b> |
| Grid 4 <b>M3</b><br><b>66.54 V/m</b> | Grid 5 <b>M3</b><br><b>66.85 V/m</b> | Grid 6 <b>M3</b><br><b>65.73 V/m</b> |
| Grid 7 <b>M3</b><br><b>93.38 V/m</b> | Grid 8 <b>M3</b><br><b>94.88 V/m</b> | Grid 9 <b>M3</b><br><b>92.05 V/m</b> |

#### Cursor:

Total = 96.93 V/m

E Category: M3

Location: 0.5, -34, 8.7 mm



0 dB = 96.93 V/m = 39.73 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: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1428; Calibrated: 2020-03-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

### Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD2450 =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 = 80.89 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 92.22 V/m

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

PMF scaled E-field

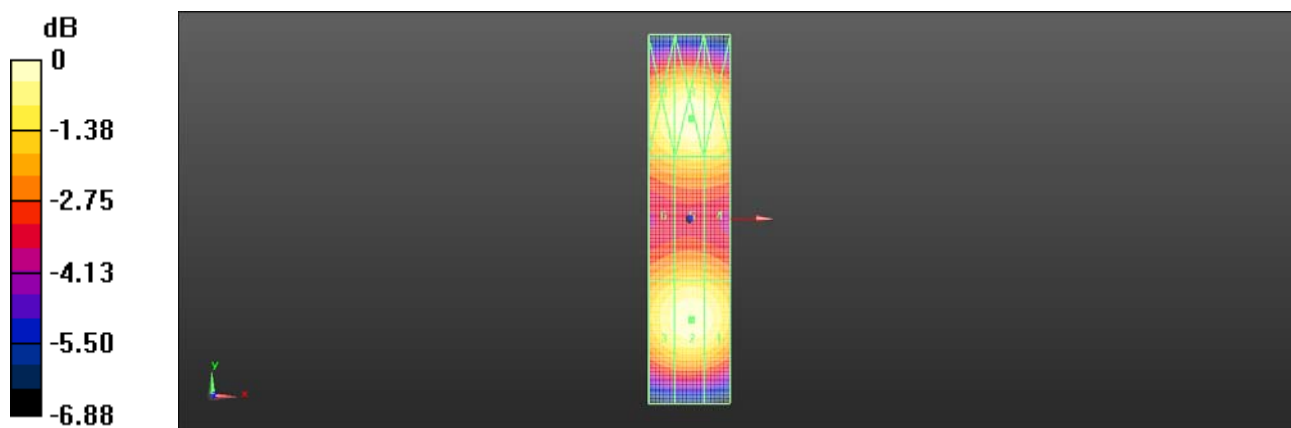
|                                      |                                      |                                      |
|--------------------------------------|--------------------------------------|--------------------------------------|
| Grid 1 <b>M3</b><br><b>90.68 V/m</b> | Grid 2 <b>M3</b><br><b>92.22 V/m</b> | Grid 3 <b>M3</b><br><b>89.56 V/m</b> |
| Grid 4 <b>M3</b><br><b>80.19 V/m</b> | Grid 5 <b>M3</b><br><b>80.35 V/m</b> | Grid 6 <b>M3</b><br><b>78.55 V/m</b> |
| Grid 7 <b>M3</b><br><b>91.18 V/m</b> | Grid 8 <b>M3</b><br><b>92.43 V/m</b> | Grid 9 <b>M3</b><br><b>89.55 V/m</b> |

#### Cursor:

Total = 92.43 V/m

E Category: M3

Location: 0.5, 24.5, 8.7 mm



0 dB = 92.43 V/m = 39.32 dBV/m