# SGS-CSTC Standards Technical Services Co., Ltd. Xi'An Branch

Report No.: ZR/2019/B001306

# **Appendix A**

## **Detailed System Check Results**

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

Date: 2019-11-24

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,  $\varepsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

## DASY 5 Configuration:

• Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2019-06-18;

• Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn896; Calibrated: 2019-09-18

• 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 = 130.8 V/m; Power Drift = -0.08 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 110.5 V/m

Near-field category: M4 (AWF 0 dB)

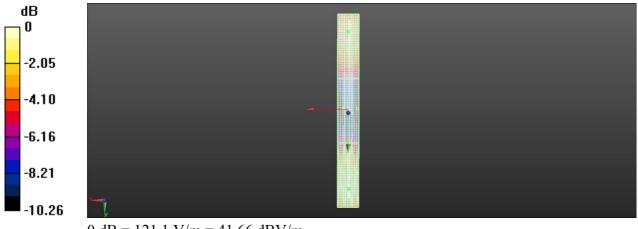
#### PMF scaled E-field

Grid 1 <b>M4</b>	Grid 2 <b>M4</b>	Grid 3 M4
109.1 V/m	110.5 V/m	107.7 V/m
Grid 4 <b>M4</b>	Grid 5 M4	Grid 6 <b>M4</b>
65.10 V/m	65.36 V/m	63.72 V/m
Grid 7 <b>M4</b>	Grid 8 M4	Grid 9 <b>M4</b>
118.6 V/m	121.1 V/m	118.3 V/m

#### **Cursor:**

Total = 121.1 V/m E Category: M4

Location: 0, 73, 8.7 mm



0 dB = 121.1 V/m = 41.66 dBV/m

Date: 2019-11-24

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,  $\varepsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

## DASY 5 Configuration:

• Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2019-06-18;

• Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn896; Calibrated: 2019-09-18

• 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 = 158.4 V/m; Power Drift = 0.00 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 91.77 V/m

Near-field category: M3 (AWF 0 dB)

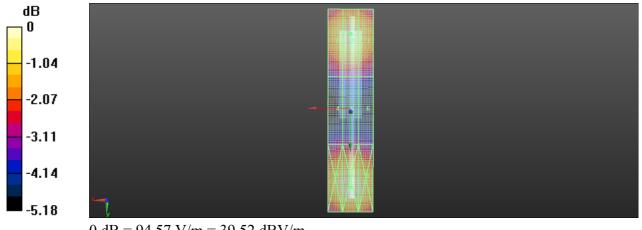
#### PMF scaled E-field

Grid 1 <b>M3</b>	Grid 2 <b>M3</b>	Grid 3 M3
90.15 V/m	91.77 V/m	89.72 V/m
Grid 4 <b>M3</b>	Grid 5 M3	Grid 6 M3
65.96 V/m	66.01 V/m	65.24 V/m
Grid 7 <b>M3</b>	Grid 8 M3	Grid 9 M3
92.49 V/m	94.57 V/m	92.53 V/m

#### **Cursor:**

Total = 94.57 V/m E Category: M3

Location: 0, 34, 8.7 mm



0 dB = 94.57 V/m = 39.52 dBV/m