

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.

Ambient Temperature 20.6 °C

Test Date Feb. 19, 2014

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Procedure Name: E Scan - measurement distance from the probe sensor center to CD835 = 15mm

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

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4034; ConvF(1, 1, 1); Calibrated: 2014-01-06;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn648; Calibrated: 2013-04-24
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Dipole E-Field measurement (E-field scan for ANSI C63.19-2007 & -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 = 118.4 V/m; Power Drift = 0.07 dB

Applied MIF = 0.00 dB

RF audio interference level = 40.97 dBV/m

Emission category: M3

MIF scaled E - field

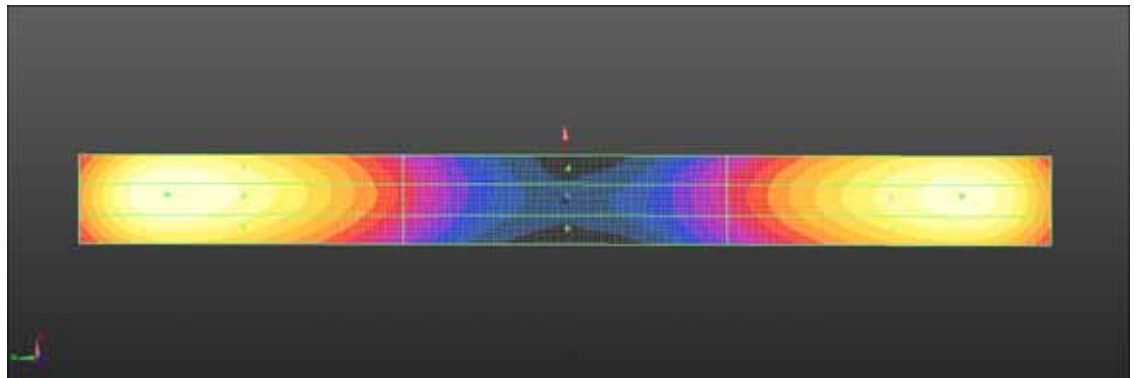
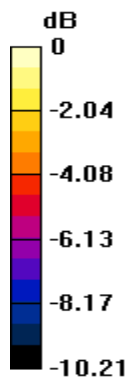
Grid 1 M3 40.56 dBV/m	Grid 2 M3 40.66 dBV/m	Grid 3 M3 40.33 dBV/m
Grid 4 M4 35.97 dBV/m	Grid 5 M4 36.06 dBV/m	Grid 6 M4 35.61 dBV/m
Grid 7 M3 40.89 dBV/m	Grid 8 M3 40.97 dBV/m	Grid 9 M3 40.56 dBV/m

Cursor:

Total = 40.97 dBV/m

E Category: M3

Location: 1, 73.5, 7.7 mm



0 dB = 111.8 V/m = 40.97 dBV/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature 20.6 °C
 Test Date Feb. 19, 2014

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Procedure Name: E Scan - measurement distance from the probe sensor center to CD1880 = 15mm

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

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

- Probe: EF3DV3 - SN4034; ConvF(1, 1, 1); Calibrated: 2014-01-06;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn648; Calibrated: 2013-04-24
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Dipole E-Field measurement (E-field scan for ANSI C63.19-2007 & -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 = 141.0 V/m; Power Drift = 0.04 dB

Applied MIF = 0.00 dB

RF audio interference level = 39.29 dBV/m

Emission category: M2

MIF scaled E-field

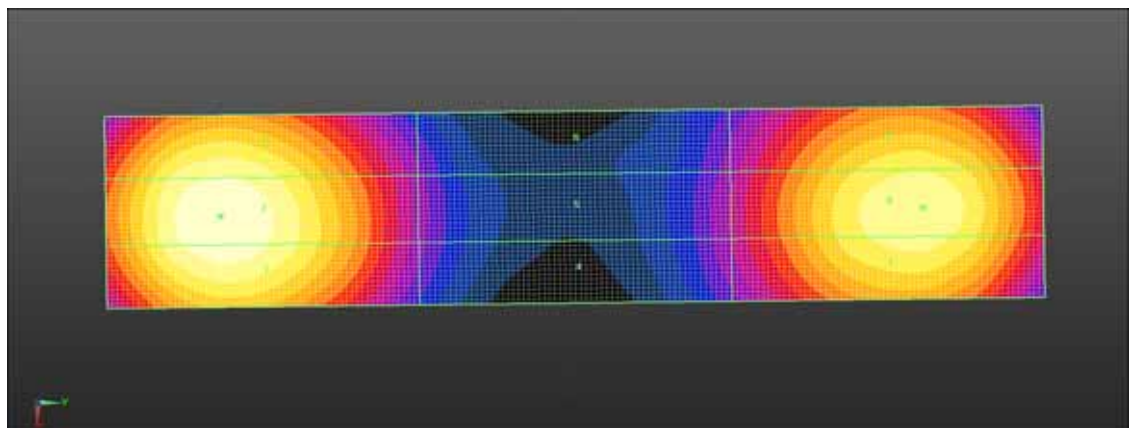
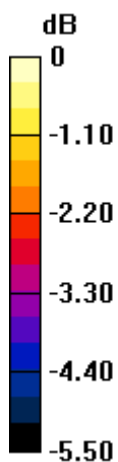
Grid 1 M2 39.17 dBV/m	Grid 2 M2 39.29 dBV/m	Grid 3 M2 38.96 dBV/m
Grid 4 M2 36.04 dBV/m	Grid 5 M2 36.07 dBV/m	Grid 6 M2 35.85 dBV/m
Grid 7 M2 38.76 dBV/m	Grid 8 M2 38.91 dBV/m	Grid 9 M2 38.53 dBV/m

Cursor:

Total = 39.29 dBV/m

E Category: M2

Location: 0.5, -34, 8.7 mm



0 dB = 92.13 V/m = 39.29 dBV/m