

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
Ambient Temperature 21.4 °C
Test Date Mar. 05, 2014

DUT: HAC-Dipole 835 MHz; Type: D835V3;
Procedure Name: E Scan - measurement distance from the probe sensor center to CD835 = 10mm

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: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2013-03-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2013-09-30
- 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 = 10mm/Hearing Aid Compatibility Test at 10mm distance (41x361x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 68.71 V/m; Power Drift = 0.01 dB

Applied MIF = 0.00 dB

RF audio interference level = 41.70 dBV/m

Emission category: M3

MIF scaled E-field

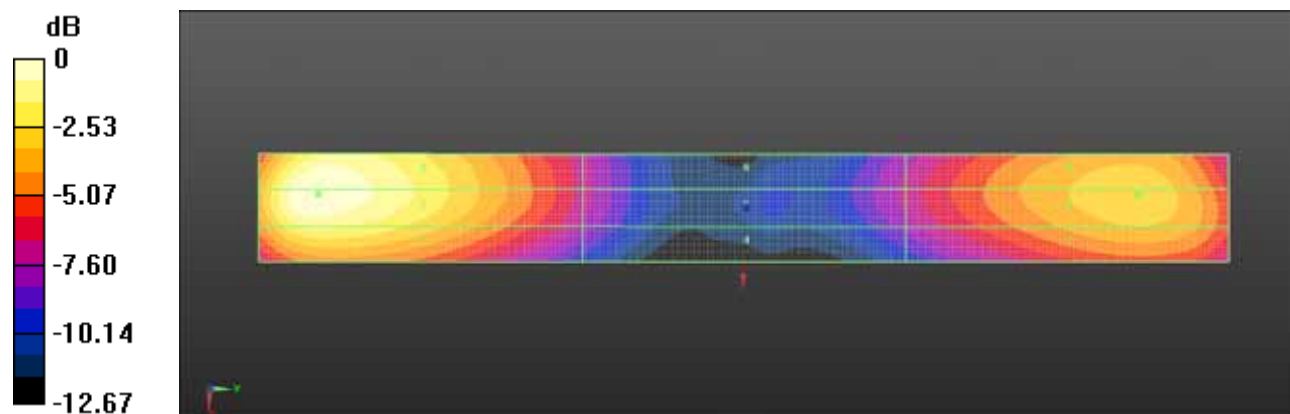
Grid 1 M3 40.24 dBV/m	Grid 2 M3 41.7 dBV/m	Grid 3 M3 41.67 dBV/m
Grid 4 M4 33.91 dBV/m	Grid 5 M4 34.65 dBV/m	Grid 6 M4 34.65 dBV/m
Grid 7 M4 38.31 dBV/m	Grid 8 M4 38.89 dBV/m	Grid 9 M4 38.87 dBV/m

Cursor:

Total = 41.70 dBV/m

E Category: M3

Location: -2.5, -79, 4.7 mm



0 dB = 121.6 V/m = 41.70 dBV/m

Test Laboratory: HCT CO., LTD.
Ambient Temperature: 21.4 °C
Test Date: Mar. 05, 2014

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Procedure Name: E Scan - measurement distance from the probe sensor center to CD1880 = 10mm

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: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2013-03-15;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 2013-09-30
- 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 = 10mm/Hearing Aid Compatibility Test at 10mm distance (41x181x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 91.77 V/m; Power Drift = 0.03 dB

Applied MIF = 0.00 dB

RF audio interference level = 39.41 dBV/m

Emission category: M2

MIF scaled E-field

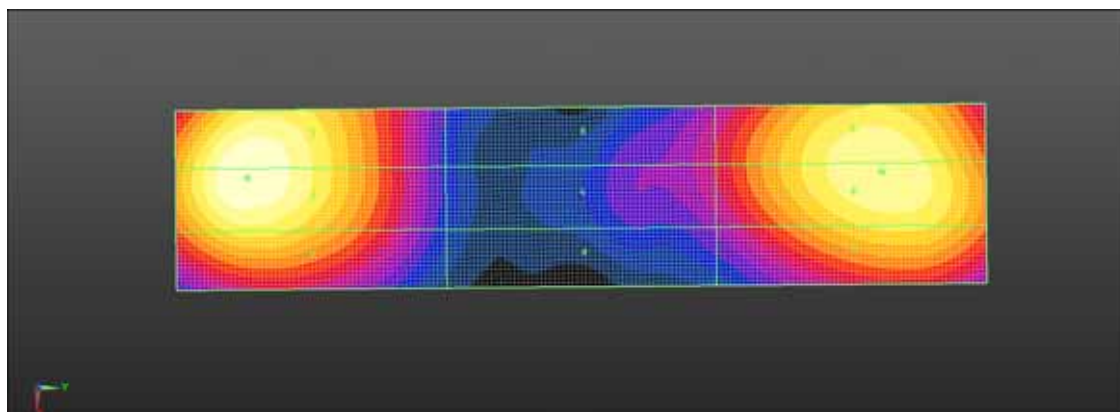
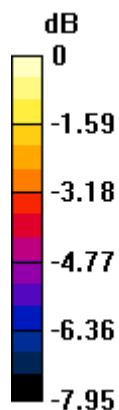
Grid 1 M2 38.11 dBV/m	Grid 2 M2 39.41 dBV/m	Grid 3 M2 39.39 dBV/m
Grid 4 M3 34.33 dBV/m	Grid 5 M2 35.26 dBV/m	Grid 6 M2 35.27 dBV/m
Grid 7 M2 38.03 dBV/m	Grid 8 M2 38.86 dBV/m	Grid 9 M2 38.85 dBV/m

Cursor:

Total = 39.41 dBV/m

E Category: M2

Location: -2.5, -37, 4.7 mm



0 dB = 93.43 V/m = 39.41 dBV/m