

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.6 °C
 Test Date: Jun. 26, 2013

DUT: HAC–Dipole 835 MHz; Type: CD835V3
 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: ER3DV6 – SN2343; ConvF(1, 1, 1); Calibrated: 15/03/2013;
- Sensor–Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 18/09/2012
- 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 10mm distance (41x361x1):
 Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
 Device Reference Point: 0, 0, –6.3 mm
 Reference Value = 70.45 V/m; Power Drift = –0.02 dB
 Applied MIF = 0.00 dB
 RF audio interference level = 41.89 dBV/m
Emission category: M3

MIF scaled E–field

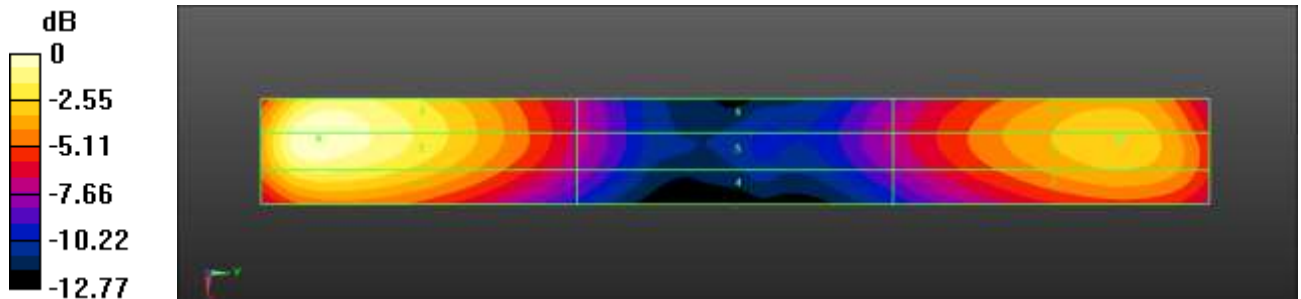
Grid 1 M3 40.43 dBV/m	Grid 2 M3 41.89 dBV/m	Grid 3 M3 41.86 dBV/m
Grid 4 M4 34.09 dBV/m	Grid 5 M4 34.82 dBV/m	Grid 6 M4 34.82 dBV/m
Grid 7 M4 38.5 dBV/m	Grid 8 M4 39.1 dBV/m	Grid 9 M4 39.08 dBV/m

Cursor:

Total = 41.89 dBV/m

E Category: M3

Location: –2.5, –79, 4.7 mm



0 dB = 124.4 V/m = 41.90 dBV/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.6 °C
 Test Date: Jun. 26, 2013

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: ER3DV6 – SN2343; ConvF(1, 1, 1); Calibrated: 15/03/2013;
- Sensor–Surface: (Fix Surface)
- Electronics: DAE4 Sn869; Calibrated: 18/09/2012
- 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)

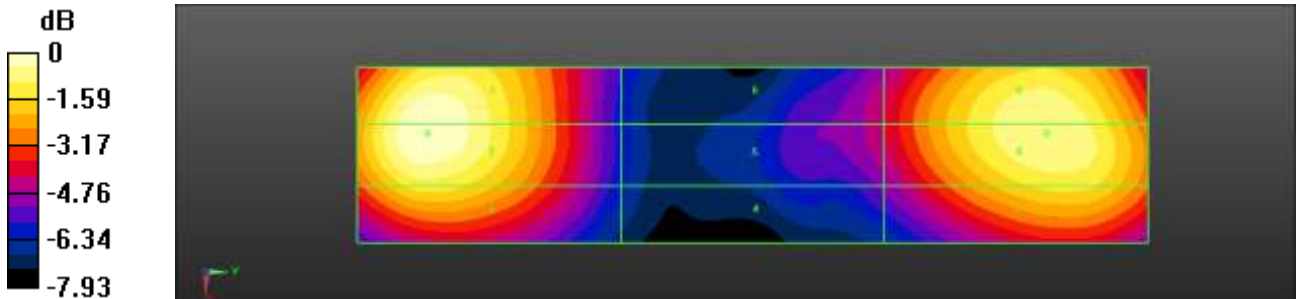
Dipole E–Field measurement (E–field scan for ANSI C63.19–2007 & –2011 compliance)/E Scan – measurement distance from the probe sensor center to CD1880 = 15mm/Hearing Aid Compatibility Test at 10mm distance (41x181x1):
 Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
 Device Reference Point: 0, 0, –6.3 mm
 Reference Value = 92.65 V/m; Power Drift = 0.03 dB
 Applied MIF = 0.00 dB
 RF audio interference level = 39.49 dBV/m
Emission category: M2

MIF scaled E–field

Grid 1 M2 38.18 dBV/m	Grid 2 M2 39.49 dBV/m	Grid 3 M2 39.47 dBV/m
Grid 4 M3 34.43 dBV/m	Grid 5 M2 35.34 dBV/m	Grid 6 M2 35.35 dBV/m
Grid 7 M2 38.12 dBV/m	Grid 8 M2 38.95 dBV/m	Grid 9 M2 38.94 dBV/m

Cursor:

Total = 39.49 dBV/m
 E Category: M2
 Location: –2.5, –37, 4.7 mm



0 dB = 94.32 V/m = 39.49 dBV/m