

Report No.: HCT-A-1403-F006 FCC ID: V65C6530 Date of Issue: Mar. 14, 2014

APPENDIX A. HAC TEST PLOTS



Report No.: HCT-A-1403-F006 FCC ID: V65C6530 Date of Issue: Mar. 14, 2014

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /128

Test Date Mar. 05, 2014

DUT: C6530N; Type: Bar; Serial: #1

Procedure Name: E Scan - ER3D: 15 mm from Probe Center to the Device

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle:

1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ 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_2014_02_21; Type: SD HAC P01 BA;

Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 58.10 V/m; Power Drift = -0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 37.97 dBV/m

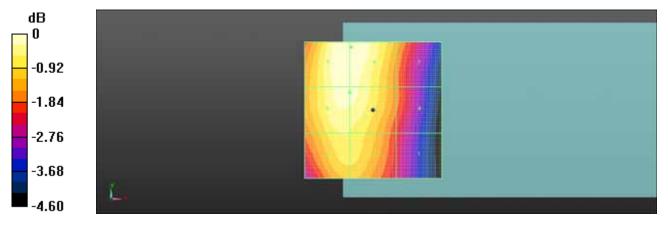
Emission category: M4

MIF scaled E-field

Grid 1 M4 35.86 dBV/m	
Grid 4 M4 36.31 dBV/m	
Grid 7 M4 36.64 dBV/m	

Cursor:

Total = 37.97 dBV/m E Category: M4 Location: -8, 23, 8.7 mm



0 dB = 79.19 V/m = 37.97 dBV/m



Test Laboratory: HCT CO., LTD. Ambient Temperature / Channel 21.4 °C /190 Test Date Mar. 05, 2014

DUT: C6530N; Type: Bar; Serial: #1

Procedure Name: E Scan - ER3D: 15 mm from Probe Center to the Device

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz; Duty Cycle:

1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ 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_2014_02_21; Type: SD HAC P01 BA; Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 52.62 V/m; Power Drift = -0.05 dB

Applied MIF = 3.63 dB

RF audio interference level = 36.85 dBV/m

Emission category: M4

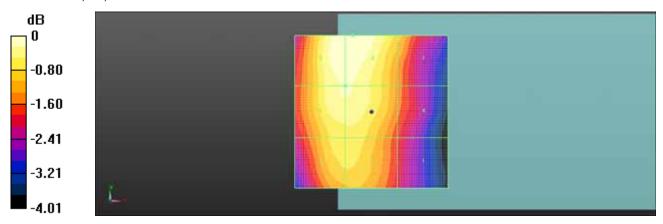
MIF scaled E-field

Grid 1 M4 35.04 dBV/m	Grid 2 M4 36.24 dBV/m	
Grid 4 M4 35.45 dBV/m		
Grid 7 M4 35.94 dBV/m		

Cursor:

Total = 36.85 dBV/m E Category: M4

Location: -6, 25, 8.7 mm



0 dB = 69.61 V/m = 36.85 dBV/m



HCT-A-1403-F006 FCC ID: V65C6530 Date of Issue: Mar. 14, 2014 Report No.:

Test Laboratory: HCT CO., LTD. Ambient Temperature / Channel 21.4 °C /251 Test Date Mar. 05, 2014

DUT: C6530N; Type: Bar; Serial: #1

Procedure Name: E Scan - ER3D: 15 mm from Probe Center to the Device

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle:

1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ 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_2014_02_21; Type: SD HAC P01 BA; Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 57.38 V/m; Power Drift = 0.07 dB

Applied MIF = 3.63 dB

RF audio interference level = 37.51 dBV/m

Emission category: M4

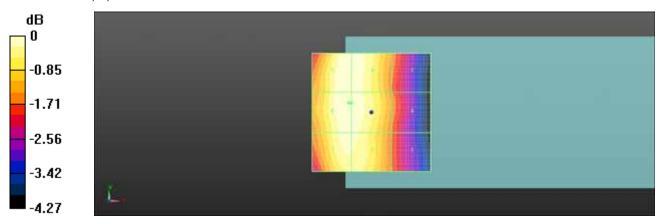
MIF scaled E-field

Grid 1 M4 35.86 dBV/m	Grid 3 M4 37.33 dBV/m
Grid 4 M4 36.08 dBV/m	Grid 6 M4 37.51 dBV/m
Grid 7 M4 36.1 dBV/m	 Grid 9 M4 37.47 dBV/m

Cursor:

Total = 37.51 dBV/m E Category: M4

Location: -9.5, 4, 8.7 mm



0 dB = 75.11 V/m = 37.51 dBV/m



Test Laboratory: HCT CO., LTD. Ambient Temperature / Channel 21.4 °C /512 Test Date Mar. 05, 2014

DUT: C6530N; Type: Bar; Serial: #1

Procedure Name: E Scan - ER3D: 15 mm from Probe Center to the Device

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle:

1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ 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_2014_02_21; Type: SD HAC P01 BA; Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 11.20 V/m; Power Drift = 0.10 dB

Applied MIF = 3.63 dB

RF audio interference level = 32.92 dBV/m

Emission category: M3

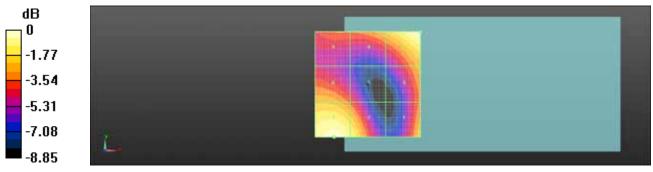
MIF scaled E-field

Grid 1 M3	Grid 2 M3	Grid 3 M3
30.95 dBV/m	31.88 dBV/m	32.63 dBV/m
Grid 4 M3	Grid 5 M4	Grid 6 M3
30.38 dBV/m	29.24 dBV/m	30.54 dBV/m
Grid 7 M3	Grid 8 M3	Grid 9 M4
32.92 dBV/m	30.74 dBV/m	29.52 dBV/m

Cursor:

Total = 32.92 dBV/m E Category: M3

Location: 25, 25, 8.7 mm



0 dB = 44.28 V/m = 32.92 dBV/m



Test Laboratory: HCT CO., LTD. Ambient Temperature / Channel 21.4 °C /661 Test Date Mar. 05, 2014

DUT: C6530N; Type: Bar; Serial: #1

Procedure Name: E Scan - ER3D: 15 mm from Probe Center to the Device

Communication System: UID 10021-CAA, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle:

1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ 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_2014_02_21; Type: SD HAC P01 BA; Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 11.30 V/m; Power Drift = -0.12 dB

Applied MIF = 3.63 dB

RF audio interference level = 32.49 dBV/m

Emission category: M3

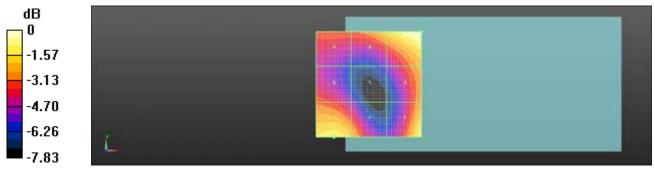
MIF scaled E-field

Grid 1 M3	Grid 2 M3	Grid 3 M3
31.66 dBV/m	30.44 dBV/m	31.29 dBV/m
Grid 4 M3	Grid 5 M4	Grid 6 M4
30.18 dBV/m	27.49 dBV/m	29.27 dBV/m
Grid 7 M3	Grid 8 M3	Grid 9 M4
32.49 dBV/m	30.78 dBV/m	29.28 dBV/m

Cursor:

Total = 32.49 dBV/m E Category: M3

Location: 25, 25, 8.7 mm



0 dB = 42.13 V/m = 32.49 dBV/m



Test Laboratory: HCT CO., LTD. Ambient Temperature / Channel 21.4 °C /810 Test Date Mar. 05, 2014

DUT: C6530N; Type: Bar; Serial: #1

Procedure Name: E Scan - ER3D: 15 mm from Probe Center to the Device

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle:

1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ 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_2014_02_21; Type: SD HAC P01 BA; Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Device E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 15.86 V/m; Power Drift = -0.18 dB

Applied MIF = 3.63 dB

RF audio interference level = 32.09 dBV/m

Emission category: M3

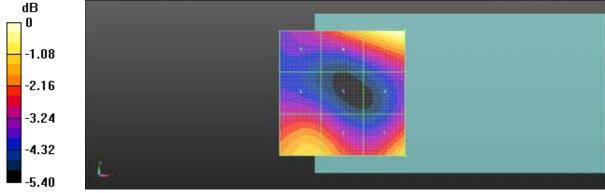
MIF scaled E-field

Grid 1 M3 31.14 dBV/m	
Grid 4 M4 28.9 dBV/m	
Grid 7 M3 32.09 dBV/m	

Cursor:

Total = 32.09 dBV/m E Category: M3

Location: 25, 25, 8.7 mm



0 dB = 40.20 V/m = 32.08 dBV/m