

Applicant:	Kyocera
FCC ID:	V65C5155A1
Report #:	CT-C5155A1-20RFC-0412-R0

**Exhibit 12 Appendix C: HAC RF Data Plot**

**PCS**

**CDMA 1900 Channel 25**

Date: 05/14/2012

Communication System: CDMA\_Tri\_BC0&10, Frequency: 1850 MHz, Duty Cycle: 1:1  
 Medium: Air, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup> Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

**DASY4 Configuration:**

Probe: ER3DV6 - SN2341 Probe: H3DV5 - SN6029, ConvF(1, 1, 1), Calibrated: 7/12/2011 Calibrated: 7/20/2011

Sensor-Surface: (Fix Surface),

Electronics: DAE4 Sn527, Calibrated: 7/13/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:** Room T = 21.8 °C ± 1 deg C, Liquid T = 22.0 °C ± 1 deg C

**PCS\_25/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm**

Maximum value of peak Total field = 36.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 40.9 V/m; Power Drift = -0.165 dB

**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 44.3 M4	Grid 2 43.8 M4	Grid 3 33.9 M4
Grid 4 31.8 M4	Grid 5 34.9 M4	Grid 6 34.8 M4
Grid 7 30.6 M4	Grid 8 36.8 M4	Grid 9 36.2 M4

**PCS\_25/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm**

Maximum value of peak Total field = 0.136 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.149 A/m; Power Drift = 0.058 dB

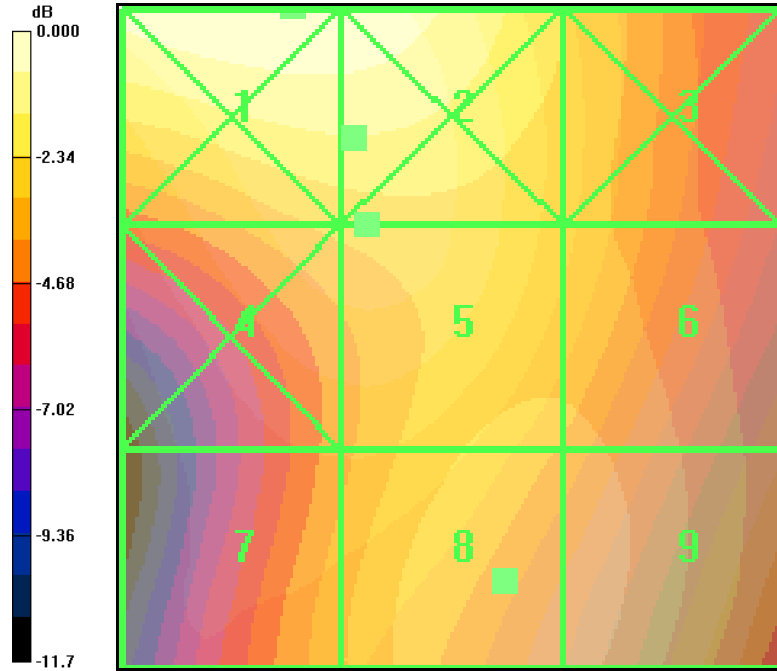
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1 0.137 M4	Grid 2 0.138 M4	Grid 3 0.108 M4
Grid 4 0.135 M4	Grid 5 0.136 M4	Grid 6 0.107 M4
Grid 7 0.112 M4	Grid 8 0.113 M4	Grid 9 0.089 M4



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0 dB = 44.3V/m

**CDMA 1900 Channel 600**

Date: 05/14/2012

Communication System: CDMA\_Tri\_BC0&10, Frequency: 1880 MHz, Duty Cycle: 1:1  
 Medium: Air, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup> Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

**DASY4 Configuration:**

Probe: ER3DV6 - SN2341 Probe: H3DV5 - SN6029, ConvF(1, 1, 1), Calibrated: 7/12/2011 Calibrated: 7/20/2011

Sensor-Surface: (Fix Surface),

Electronics: DAE4 Sn527, Calibrated: 7/13/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:** Room T = 21.8 °C ± 1 deg C, Liquid T = 22.0 °C ± 1 deg C

**PCS\_600/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm**

Maximum value of peak Total field = 41.7 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 46.2 V/m; Power Drift = -0.065 dB

**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 52.1 M4	Grid 2 51.9 M4	Grid 3 40.7 M4
Grid 4 38.8 M4	Grid 5 39.4 M4	Grid 6 38.7 M4
Grid 7 36.4 M4	Grid 8 41.7 M4	Grid 9 40.5 M4

**PCS\_600/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm**

Maximum value of peak Total field = 0.165 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.182 A/m; Power Drift = 0.029 dB

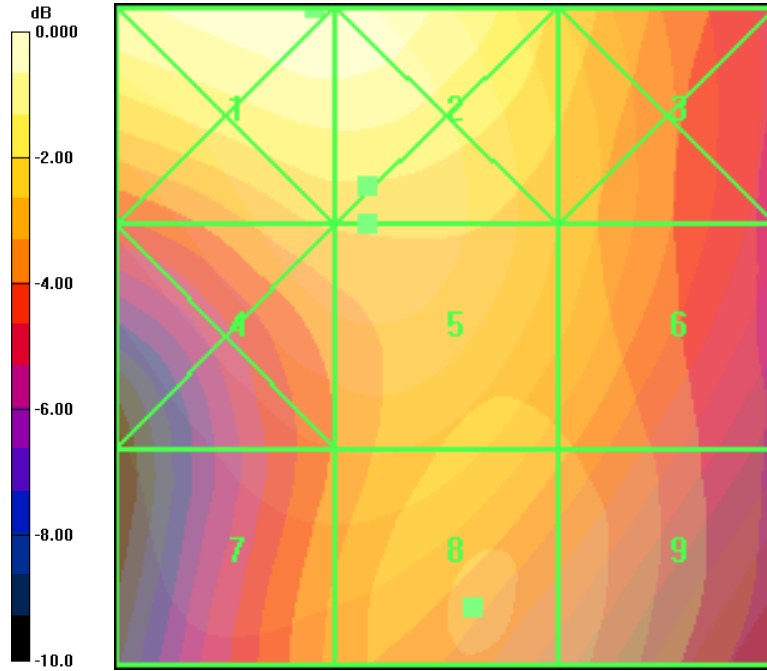
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1 0.165 M4	Grid 2 0.166 M4	Grid 3 0.135 M4
Grid 4 0.163 M4	Grid 5 0.165 M4	Grid 6 0.134 M4
Grid 7 0.134 M4	Grid 8 0.136 M4	Grid 9 0.111 M4



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0 dB = 52.1V/m

**CDMA 1900 Channel 1175**

Date: 05/14/2012

Communication System: CDMA\_Tri\_BC0&10, Frequency: 1910 MHz, Duty Cycle: 1:1  
 Medium: Air, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup> Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

**DASY4 Configuration:**

Probe: ER3DV6 - SN2341 Probe: H3DV5 - SN6029, ConvF(1, 1, 1), Calibrated: 7/12/2011 Calibrated: 7/20/2011

Sensor-Surface: (Fix Surface),

Electronics: DAE4 Sn527, Calibrated: 7/13/2011

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:** Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

**PCS\_1175/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm**

Maximum value of peak Total field = 43.4 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 49.9 V/m; Power Drift = -0.059 dB

**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 49.6 M4	Grid 2 49.6 M4	Grid 3 40.2 M4
Grid 4 39.0 M4	Grid 5 42.5 M4	Grid 6 42.4 M4
Grid 7 34.4 M4	Grid 8 43.4 M4	Grid 9 43.1 M4

**PCS\_1175/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm**

Maximum value of peak Total field = 0.155 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.168 A/m; Power Drift = 0.362 dB

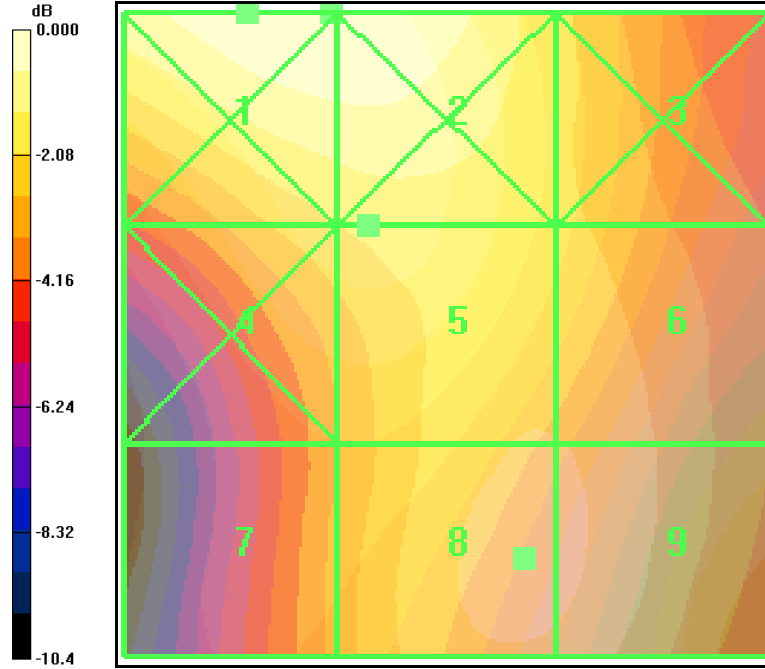
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1 0.159 M4	Grid 2 0.158 M4	Grid 3 0.128 M4
Grid 4 0.154 M4	Grid 5 0.155 M4	Grid 6 0.126 M4
Grid 7 0.130 M4	Grid 8 0.130 M4	Grid 9 0.103 M4



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0 dB = 49.6V/m

**CDMA 1900 Channel 1175 (360) E roll**

