



Applicant:	Kyocera
FCC ID:	OVF-K5302
IC#:	3572A-S2300
Report #:	CT- K5302-20RFB-0711-R0

**Exhibit 12 Appendix B: HAC RF Validation Plot**

Applicant:	Kyocera
FCC ID:	OVF-K5302
IC#:	3572A-S2300
Report #:	CT- K5302-20RFB-0711-R0

**Validation E Field Probe SN2282, Dipole SN1020, 835MHz**

Date: 07/25/2011

**K5302\_E\_Dipole\_835**

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1  
 Medium: Air, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

**DASY4 Configuration:**

Probe: ER3DV6 - SN2282, ConvF(1, 1, 1), Calibrated: 1/20/2011  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn603, Calibrated: 9/20/2010  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186

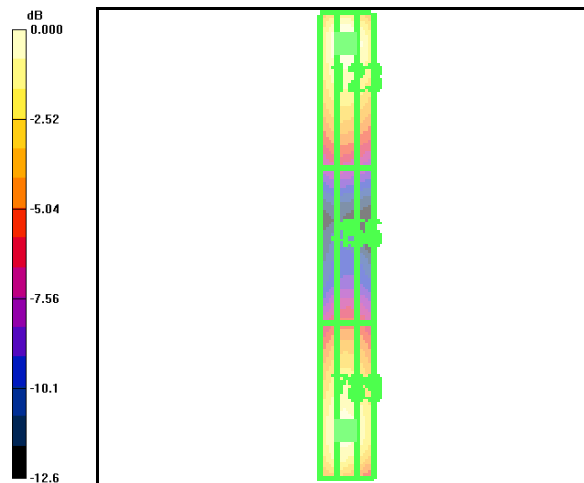
**Temperature:**

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

**E Scan 835 - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 169.2 V/m  
 Probe Modulation Factor = 1.00  
 Device Reference Point: 0.000, 0.000, -6.30 mm  
 Reference Value = 166.6 V/m; Power Drift = -0.008 dB  
**Hearing Aid Near-Field Category: M4 (AWF 0 dB)**

Peak E-field in V/m

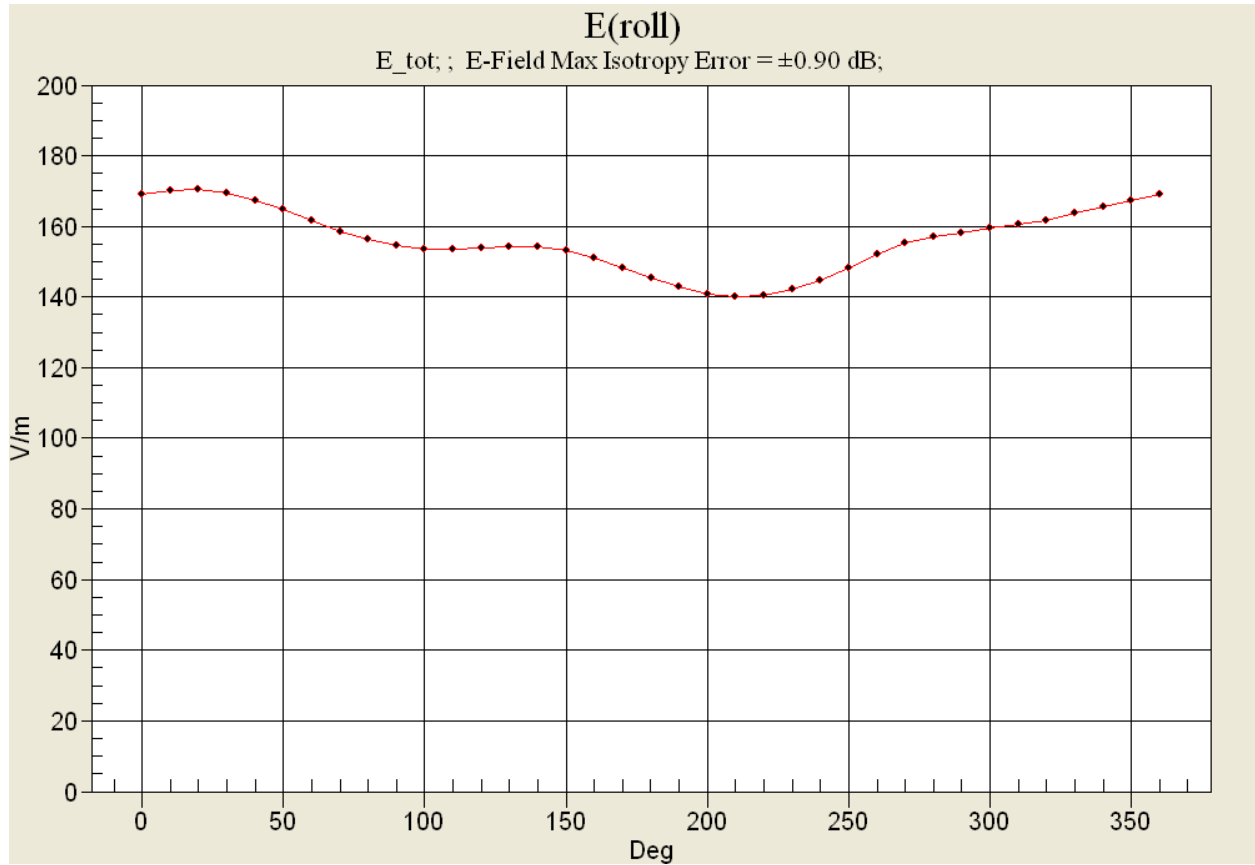
Grid 1 <b>166.1 M4</b>	Grid 2 <b>169.2 M4</b>	Grid 3 <b>161.8 M4</b>
Grid 4 <b>90.3 M4</b>	Grid 5 <b>92.4 M4</b>	Grid 6 <b>89.8 M4</b>
Grid 7 <b>159.1 M4</b>	Grid 8 <b>160.9 M4</b>	Grid 9 <b>152.9 M4</b>



0 dB = 169.2V/m



Applicant:	Kyocera
FCC ID:	OVF-K5302
IC#:	3572A-S2300
Report #:	CT- K5302-20RFB-0711-R0



Applicant:	Kyocera
FCC ID:	OVF-K5302
IC#:	3572A-S2300
Report #:	CT- K5302-20RFB-0711-R0

**Validation H Field Probe SN6123, Dipole SN1020, 835MHz**

Date: 07/25/2011

**K5302\_H\_Dipole\_835**

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1  
 Medium: Air, 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: H3DV6 - SN6123, , Calibrated: 1/25/2011  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn603, Calibrated: 9/20/2010  
 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

**H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing**

**Aid Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.495 A/m

Probe Modulation Factor = 1.00

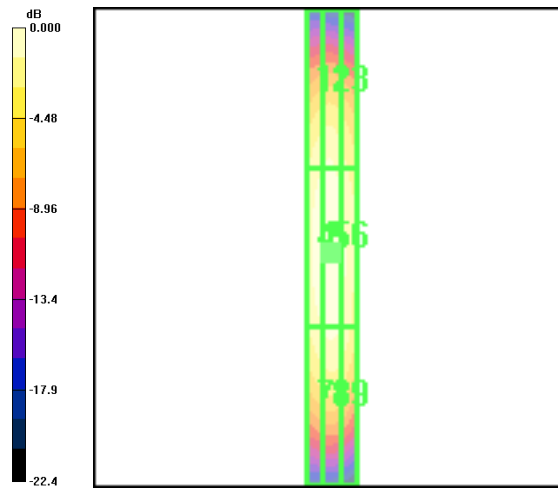
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.531 A/m; Power Drift = -0.258 dB

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

Peak H-field in A/m

Grid 1 <b>0.419 M4</b>	Grid 2 <b>0.432 M4</b>	Grid 3 <b>0.383 M4</b>
Grid 4 <b>0.474 M4</b>	Grid 5 <b>0.495 M4</b>	Grid 6 <b>0.450 M4</b>
Grid 7 <b>0.420 M4</b>	Grid 8 <b>0.437 M4</b>	Grid 9 <b>0.414 M4</b>



0 dB = 0.495A/m

Applicant:	Kyocera
FCC ID:	OVF-K5302
IC#:	3572A-S2300
Report #:	CT- K5302-20RFB-0711-R0

**Validation E Field Probe SN2282, Dipole SN1015, 1900MHz**

Date: 07/25/2011

**K5302\_E\_Dipole\_1880**

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1  
 Medium: Air, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

**DASY4 Configuration:**

Probe: ER3DV6 - SN2282, ConvF(1, 1, 1), Calibrated: 1/20/2011  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn603, Calibrated: 9/20/2010  
 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

**E Scan 1880 - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 139.2 V/m

Probe Modulation Factor = 1.00

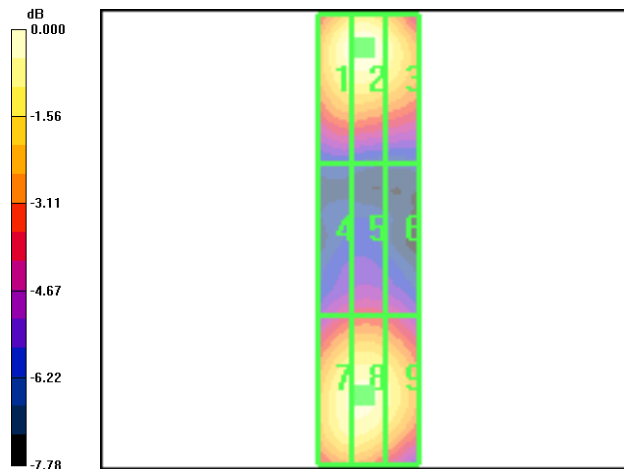
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 134.6 V/m; Power Drift = -0.038 dB

**Hearing Aid Near-Field Category: M2 (AWF 0 dB)**

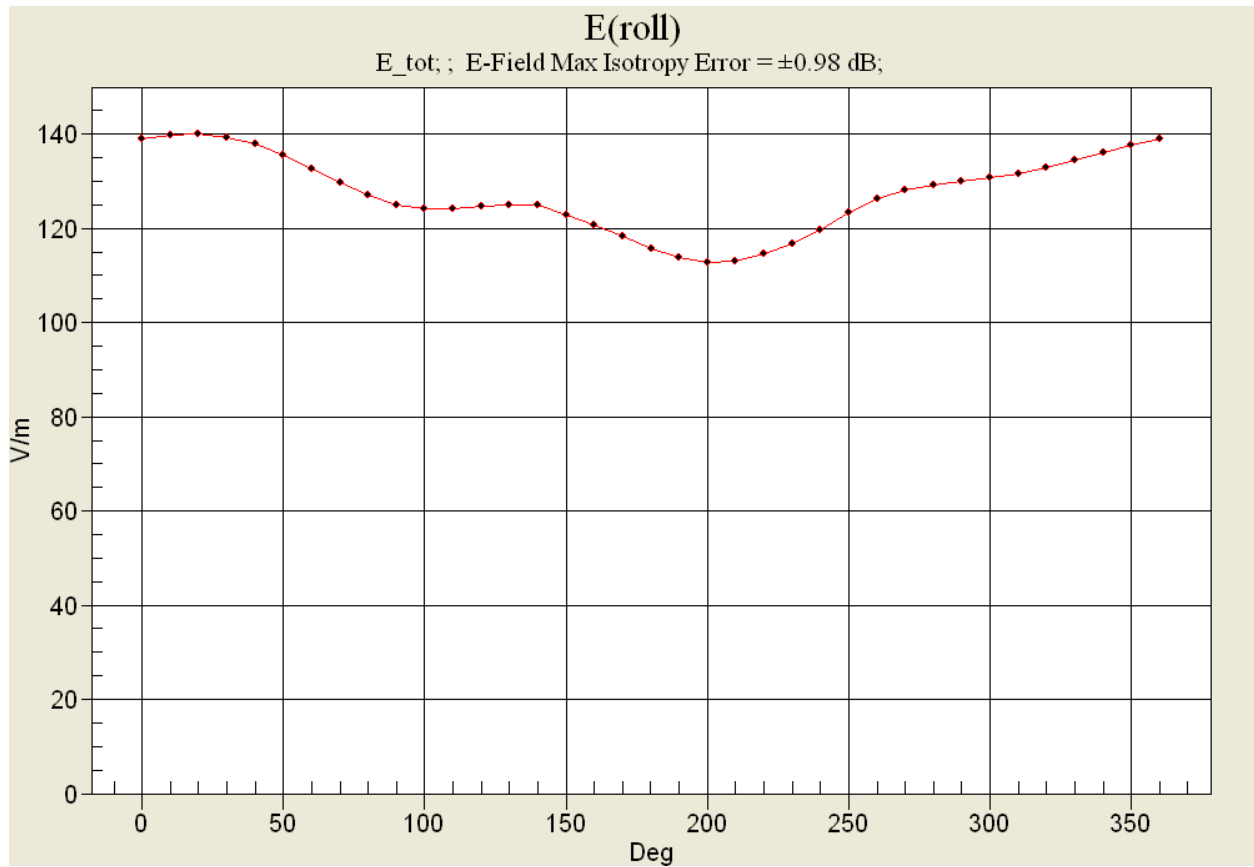
Peak E-field in V/m

Grid 1 <b>136.5 M2</b>	Grid 2 <b>139.2 M2</b>	Grid 3 <b>129.7 M2</b>
Grid 4 <b>88.5 M3</b>	Grid 5 <b>90.9 M3</b>	Grid 6 <b>87.8 M3</b>
Grid 7 <b>132.9 M2</b>	Grid 8 <b>134.3 M2</b>	Grid 9 <b>126.8 M2</b>



0 dB = 139.2V/m

Applicant:	Kyocera
FCC ID:	OVF-K5302
IC#:	3572A-S2300
Report #:	CT- K5302-20RFB-0711-R0



Applicant:	Kyocera
FCC ID:	OVF-K5302
IC#:	3572A-S2300
Report #:	CT- K5302-20RFB-0711-R0

**Validation H Field Probe SN6123, Dipole SN1015, 1900MHz**

Date: 07/25/2011

**K5302\_H\_Dipole\_1880**

Communication System: CW, Frequency: 1800 MHz, Duty Cycle: 1:1  
 Medium: Air, 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: H3DV6 - SN6123, , Calibrated: 1/25/2011  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn603, Calibrated: 9/20/2010  
 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

**H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing**

**Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.493 A/m

Probe Modulation Factor = 1.00

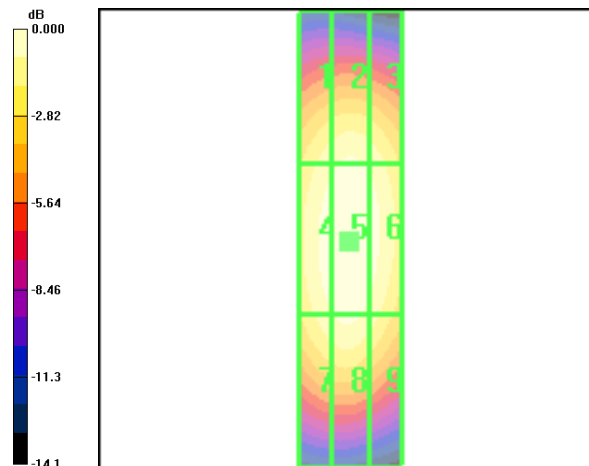
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.546 A/m; Power Drift = -0.042 dB

**Hearing Aid Near-Field Category: M2 (AWF 0 dB)**

Peak H-field in A/m

Grid 1 <b>0.432 M2</b>	Grid 2 <b>0.451 M2</b>	Grid 3 <b>0.435 M2</b>
Grid 4 <b>0.474 M2</b>	Grid 5 <b>0.493 M2</b>	Grid 6 <b>0.470 M2</b>
Grid 7 <b>0.439 M2</b>	Grid 8 <b>0.456 M2</b>	Grid 9 <b>0.425 M2</b>



0 dB = 0.493A/m