

**Validation E Field Probe SN2341, Dipole SN1015, 835MHz**

Date: 12/03/2012

**S2151\_Dual\_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 - SN2341, ConvF(1, 1, 1), Calibrated: 9/14/2012  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/30/2012  
 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 = 166.1 V/m

Probe Modulation Factor = 1.00

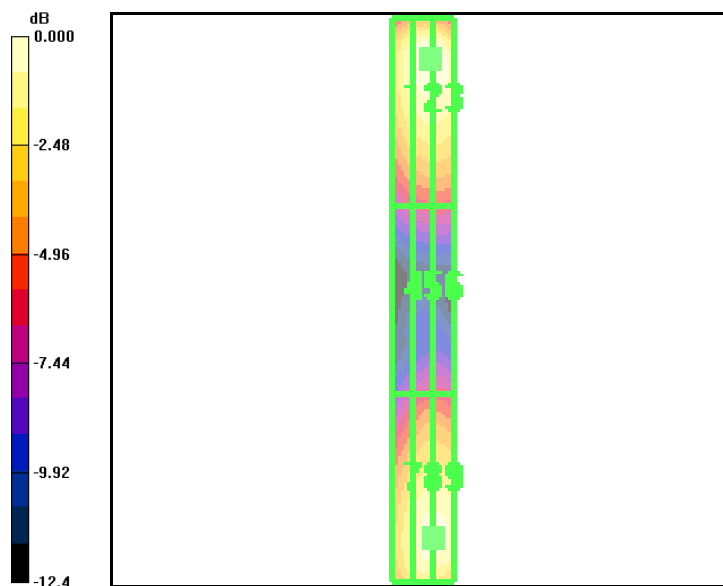
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 176.0 V/m; Power Drift = -0.141 dB

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

Peak E-field in V/m

Grid 1 <b>151.8 M4</b>	Grid 2 <b>166.1 M4</b>	Grid 3 <b>165.7 M4</b>
Grid 4 <b>79.0 M4</b>	Grid 5 <b>83.6 M4</b>	Grid 6 <b>83.7 M4</b>
Grid 7 <b>141.0 M4</b>	Grid 8 <b>158.0 M4</b>	Grid 9 <b>157.9 M4</b>



0 dB = 166.1V/m

**Validation E Field Probe SN2341, Dipole SN1015, 1900MHz**

Date: 12/03/2012

**S2151\_Dual\_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 - SN2341, ConvF(1, 1, 1), Calibrated: 9/14/2012  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/30/2012  
 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 = 131.4 V/m

Probe Modulation Factor = 1.00

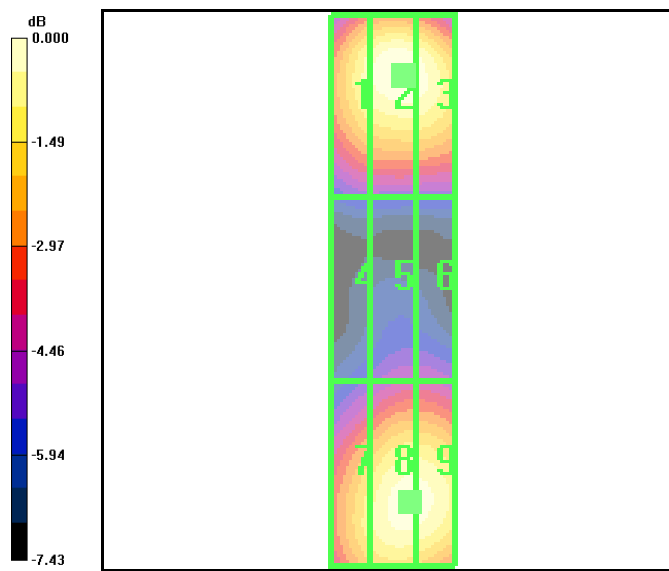
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 138.7 V/m; Power Drift = -0.106 dB

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

Peak E-field in V/m

Grid 1 <b>123.5 M2</b>	Grid 2 <b>131.4 M2</b>	Grid 3 <b>129.9 M2</b>
Grid 4 <b>73.0 M3</b>	Grid 5 <b>80.5 M3</b>	Grid 6 <b>80.5 M3</b>
Grid 7 <b>116.2 M2</b>	Grid 8 <b>128.3 M2</b>	Grid 9 <b>128.1 M2</b>



0 dB = 131.4V/m

**Validation H Field Probe SN6029, Dipole SN1015, 835MHz**

Date: 11/27/2012

**S2151\_Dual\_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: 2/17/2012  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/30/2012  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8  $\pm$  1 deg C, Liquid T = 22.0  $\pm$  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 = 0.457 A/m

Probe Modulation Factor = 1.00

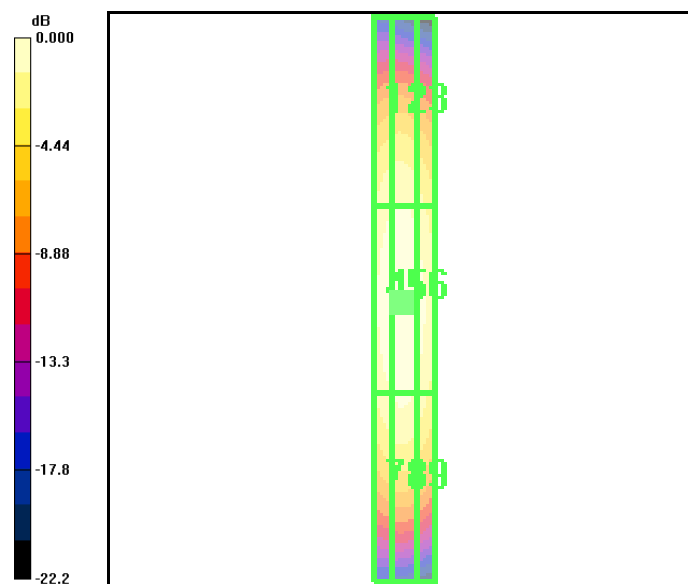
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.512 A/m; Power Drift = -0.087 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
<b>0.383 M4</b>	<b>0.390 M4</b>	<b>0.360 M4</b>
Grid 4	Grid 5	Grid 6
<b>0.442 M4</b>	<b>0.457 M4</b>	<b>0.426 M4</b>
Grid 7	Grid 8	Grid 9
<b>0.390 M4</b>	<b>0.403 M4</b>	<b>0.375 M4</b>



0 dB = 0.457A/m

**Validation H Field Probe SN6029, Dipole SN1015, 1900MHz**

Date: 11/27/2012

**S2151\_Dual\_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: 2/17/2012  
 Sensor-Surface: (Fix Surface),  
 Electronics: DAE4 Sn527, Calibrated: 7/30/2012  
 Measurement SW: DASY4, V4.7 Build 80  
 Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8  $\pm$  1 deg C, Liquid T = 22.0  $\pm$  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 = 0.499 A/m

Probe Modulation Factor = 1.00

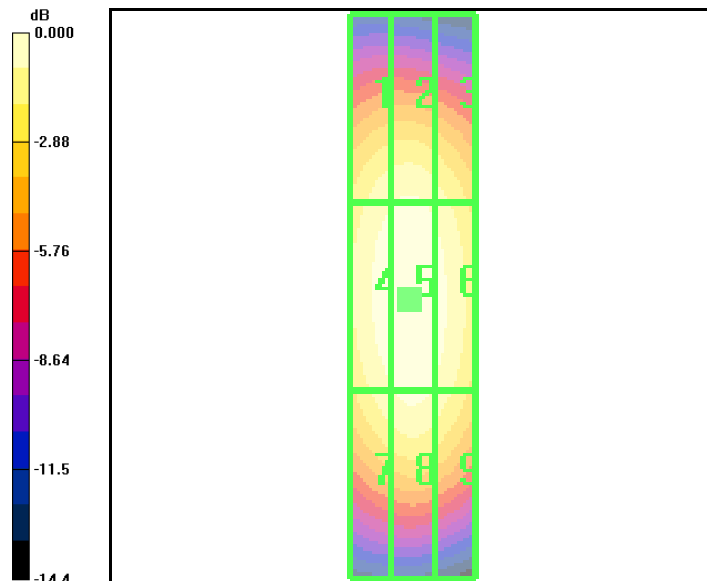
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.530 A/m; Power Drift = 0.031 dB

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

Peak H-field in A/m

Grid 1 <b>0.444 M2</b>	Grid 2 <b>0.456 M2</b>	Grid 3 <b>0.426 M2</b>
Grid 4 <b>0.483 M2</b>	Grid 5 <b>0.499 M2</b>	Grid 6 <b>0.470 M2</b>
Grid 7 <b>0.445 M2</b>	Grid 8 <b>0.464 M2</b>	Grid 9 <b>0.435 M2</b>



0 dB = 0.499A/m