

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

Date: 11/07/2012

**S2150\_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 - SN2282, ConvF(1, 1, 1), 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

**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 = 165.4 V/m

Probe Modulation Factor = 1.00

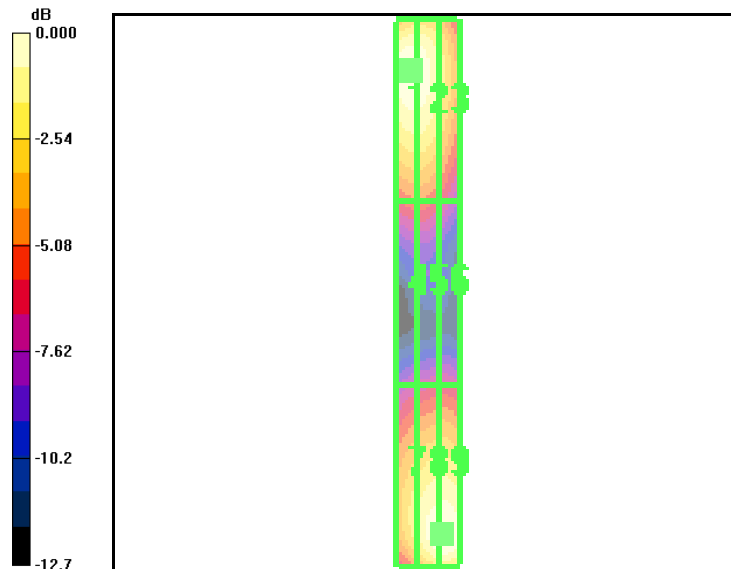
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 169.8 V/m; Power Drift = -0.167 dB

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

Peak E-field in V/m

Grid 1 <b>164.4 M4</b>	Grid 2 <b>163.2 M4</b>	Grid 3 <b>135.5 M4</b>
Grid 4 <b>89.5 M4</b>	Grid 5 <b>89.5 M4</b>	Grid 6 <b>80.2 M4</b>
Grid 7 <b>136.1 M4</b>	Grid 8 <b>164.0 M4</b>	Grid 9 <b>165.4 M4</b>



0 dB = 165.4V/m

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

Date: 11/07/2012

**S2150\_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 - SN2282, ConvF(1, 1, 1), 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 °C ± 1 deg C, Liquid T = 22.0 °C ± 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 = 140.7 V/m

Probe Modulation Factor = 1.00

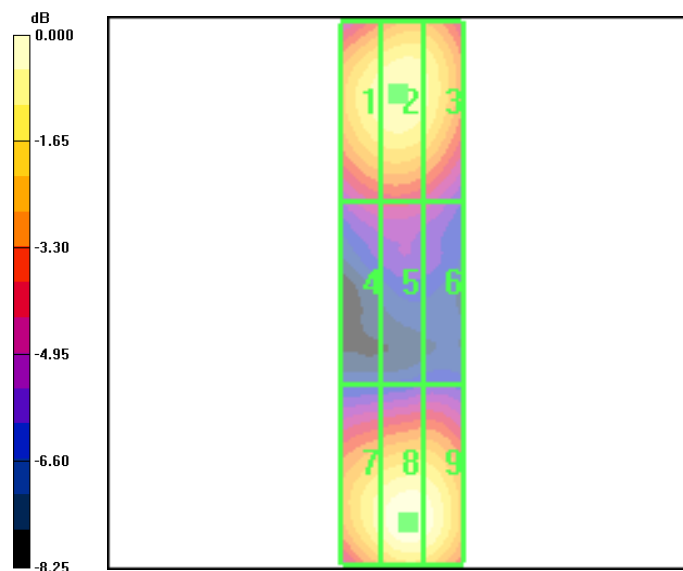
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 156.5 V/m; Power Drift = 0.022 dB

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

Peak E-field in V/m

Grid 1 <b>129.3 M2</b>	Grid 2 <b>132.4 M2</b>	Grid 3 <b>127.6 M2</b>
Grid 4 <b>86.1 M3</b>	Grid 5 <b>87.2 M3</b>	Grid 6 <b>83.0 M3</b>
Grid 7 <b>130.0 M2</b>	Grid 8 <b>140.7 M2</b>	Grid 9 <b>138.2 M2</b>



0 dB = 140.7V/m

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

Date: 11/07/2012

**S2150\_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 +/- 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 = 0.465 A/m

Probe Modulation Factor = 1.00

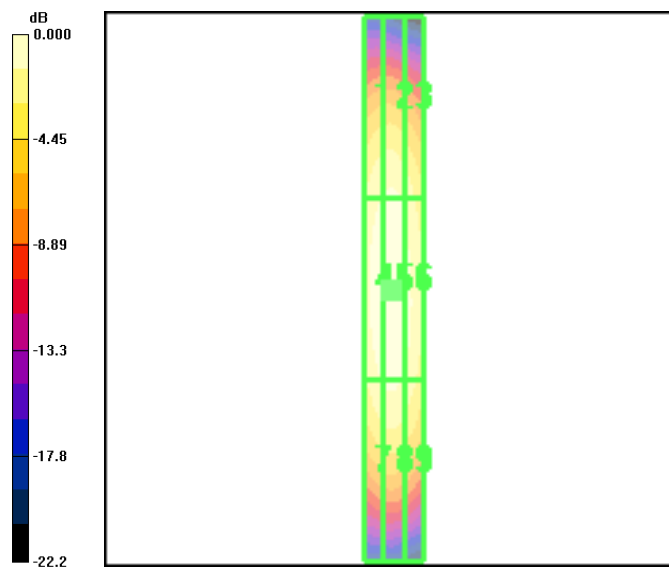
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.517 A/m; Power Drift = -0.061 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
<b>0.398 M4</b>	<b>0.406 M4</b>	<b>0.377 M4</b>
Grid 4	Grid 5	Grid 6
<b>0.451 M4</b>	<b>0.465 M4</b>	<b>0.425 M4</b>
Grid 7	Grid 8	Grid 9
<b>0.398 M4</b>	<b>0.409 M4</b>	<b>0.381 M4</b>



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

Date: 11/07/2012

**S2150\_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 +/- 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 = 0.478 A/m

Probe Modulation Factor = 1.00

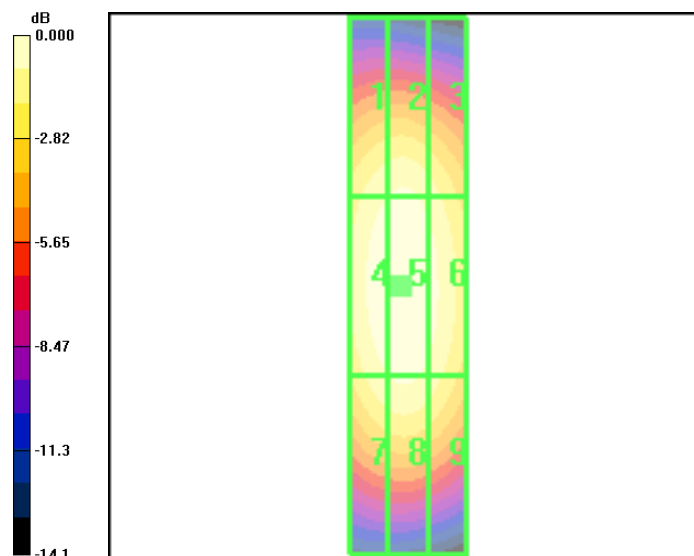
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.526 A/m; Power Drift = -0.033 dB

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

Peak H-field in A/m

Grid 1 <b>0.429 M2</b>	Grid 2 <b>0.440 M2</b>	Grid 3 <b>0.409 M2</b>
Grid 4 <b>0.466 M2</b>	Grid 5 <b>0.478 M2</b>	Grid 6 <b>0.448 M2</b>
Grid 7 <b>0.428 M2</b>	Grid 8 <b>0.440 M2</b>	Grid 9 <b>0.412 M2</b>



0 dB = 0.478A/m