

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

Date: 6/15/2010

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: 8/14/2009  
Sensor-Surface: (Fix Surface),  
Electronics: DAE4 Sn527, Calibrated: 7/9/2009  
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 = 165.3 V/m

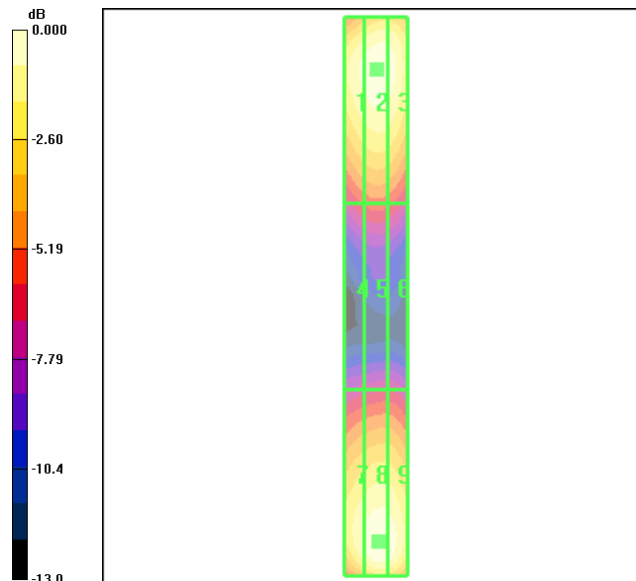
Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 186.9 V/m; Power Drift = -0.044 dB

Peak E-field in V/m

Grid 1 <b>156.4 M4</b>	Grid 2 <b>161.9 M4</b>	Grid 3 <b>159.7 M4</b>
Grid 4 <b>84.7 M4</b>	Grid 5 <b>87.9 M4</b>	Grid 6 <b>86.1 M4</b>
Grid 7 <b>153.6 M4</b>	Grid 8 <b>165.3 M4</b>	Grid 9 <b>162.9 M4</b>



0 dB = 165.3V/m

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

Date: 6/13/2010

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: 7/16/2009  
Sensor-Surface: (Fix Surface),  
Electronics: DAE4 Sn527, Calibrated: 7/9/2009  
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 = 0.480 A/m

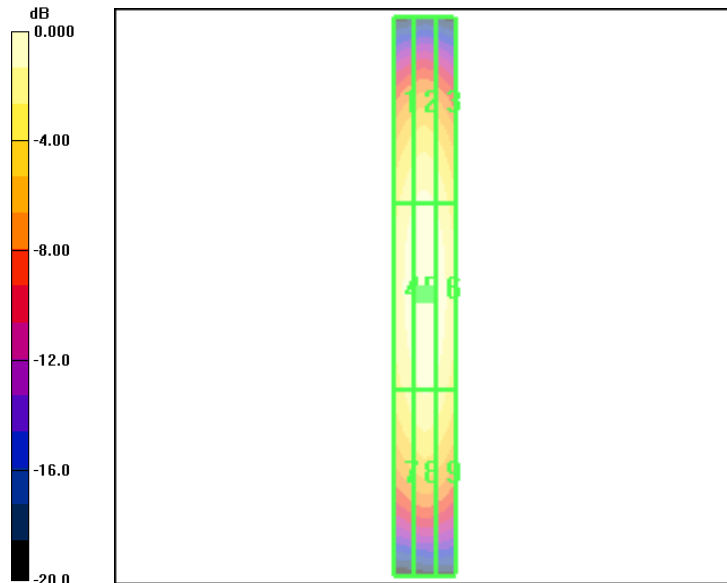
Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.510 A/m; Power Drift = -0.002 dB

Peak H-field in A/m

Grid 1 <b>0.410 M4</b>	Grid 2 <b>0.429 M4</b>	Grid 3 <b>0.410 M4</b>
Grid 4 <b>0.453 M4</b>	Grid 5 <b>0.480 M4</b>	Grid 6 <b>0.461 M4</b>
Grid 7 <b>0.392 M4</b>	Grid 8 <b>0.419 M4</b>	Grid 9 <b>0.400 M4</b>



0 dB = 0.480A/m

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

Date: 6/15/2010

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: 8/14/2009  
Sensor-Surface: (Fix Surface),  
Electronics: DAE4 Sn527, Calibrated: 7/9/2009  
Measurement SW: DASY4, V4.7 Build 80  
Postprocessing SW: SEMCAD, V1.8 Build 186

**Temperature:**

Room T = 21.8 °C, Liquid T = 22.0 °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 = 147.7 V/m

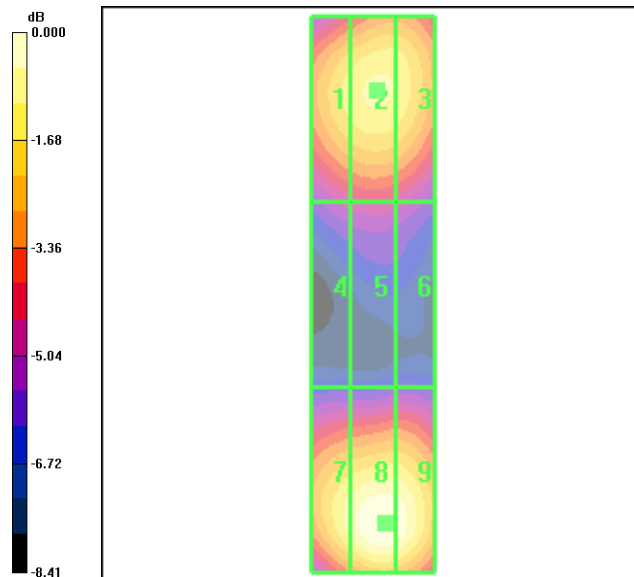
Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 164.0 V/m; Power Drift = -0.045 dB

Peak E-field in V/m

Grid 1 <b>126.3 M2</b>	Grid 2 <b>131.6 M2</b>	Grid 3 <b>129.4 M2</b>
Grid 4 <b>86.3 M3</b>	Grid 5 <b>88.7 M3</b>	Grid 6 <b>86.4 M3</b>
Grid 7 <b>135.5 M2</b>	Grid 8 <b>147.7 M2</b>	Grid 9 <b>145.8 M2</b>



0 dB = 147.7V/m

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

Date: 6/13/2010

Communication System: CW, Frequency: 1900 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: 7/16/2009  
Sensor-Surface: (Fix Surface),  
Electronics: DAE4 Sn527, Calibrated: 7/9/2009  
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 = 0.453 A/m

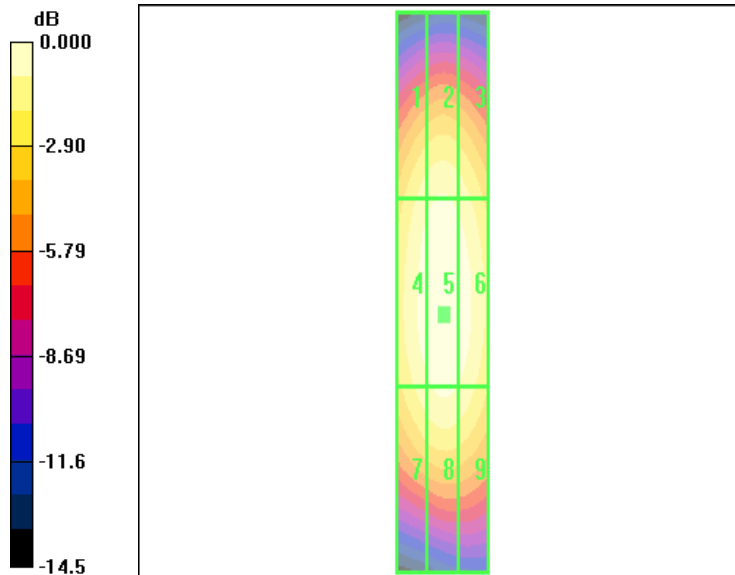
Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.487 A/m; Power Drift = -0.073 dB

Peak H-field in A/m

Grid 1 <b>0.390 M2</b>	Grid 2 <b>0.412 M2</b>	Grid 3 <b>0.392 M2</b>
Grid 4 <b>0.430 M2</b>	Grid 5 <b>0.453 M2</b>	Grid 6 <b>0.437 M2</b>
Grid 7 <b>0.394 M2</b>	Grid 8 <b>0.418 M2</b>	Grid 9 <b>0.403 M2</b>



0 dB = 0.453A/m