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	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Feb. 17, June 28, 2012  March 22-June 04, 2013</b>	Report No <b>RTS-6036-1304-53</b>

## **Annex A: Measurement data and plots**

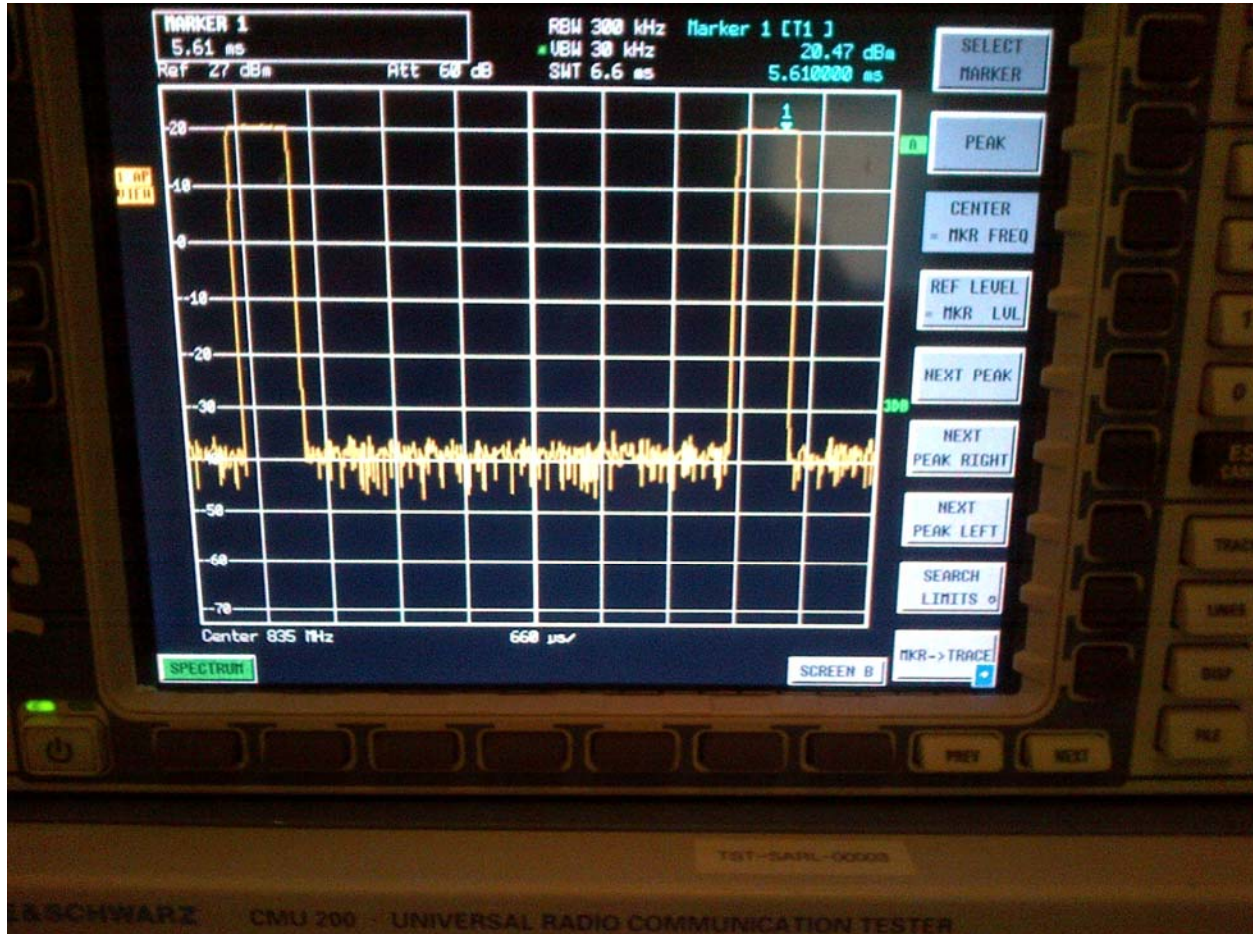
### **A.1 Spectrum analyser plots: GSM/UMTS, CW, 80%AM, signals**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
March 22-June 04, 2013**

Report No  
**RTS-6036-1304-53**

FCC ID  
**L6ARFR100LW**



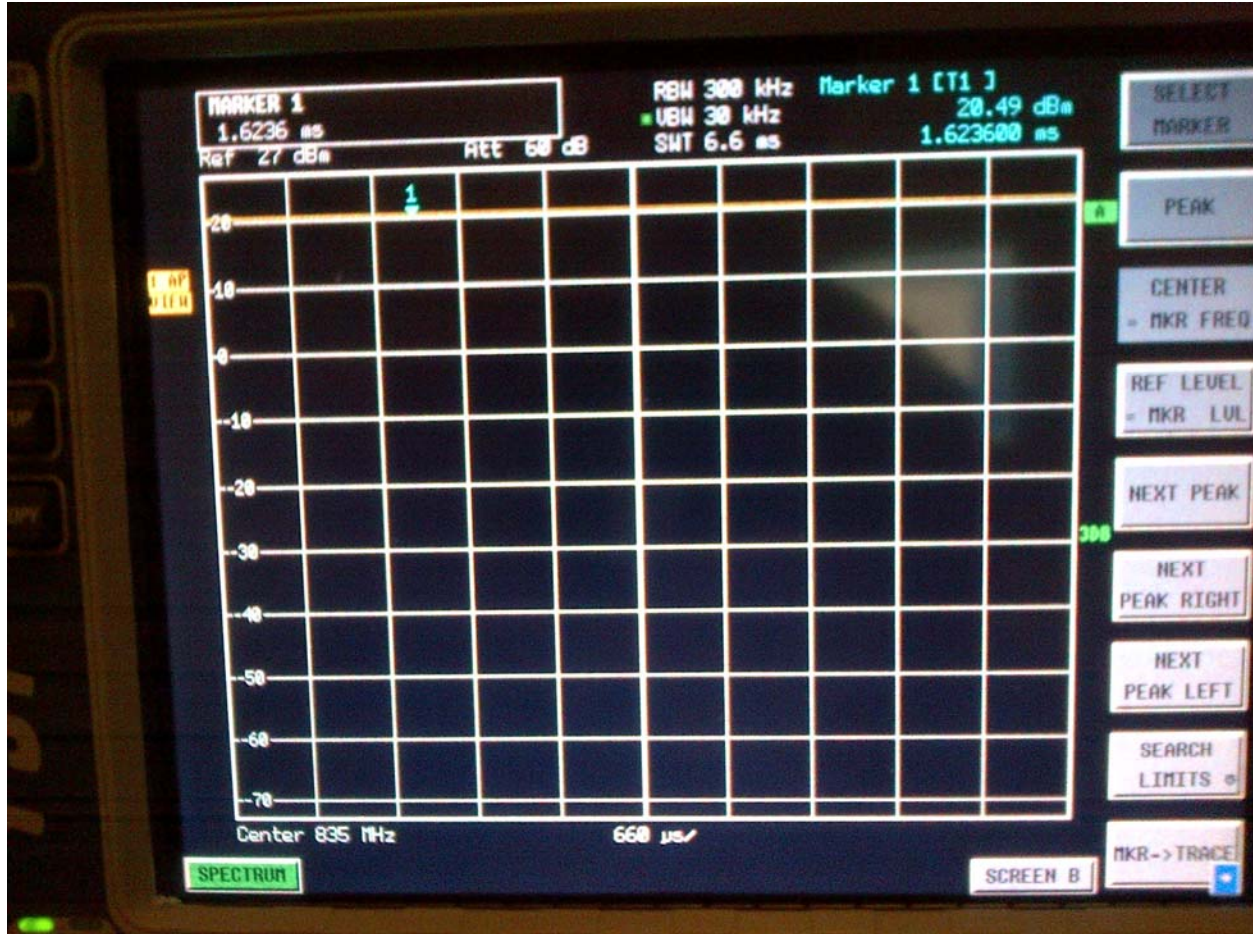
**GSM 835 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
March 22-June 04, 2013**

Report No  
**RTS-6036-1304-53**

FCC ID  
**L6ARFR100LW**



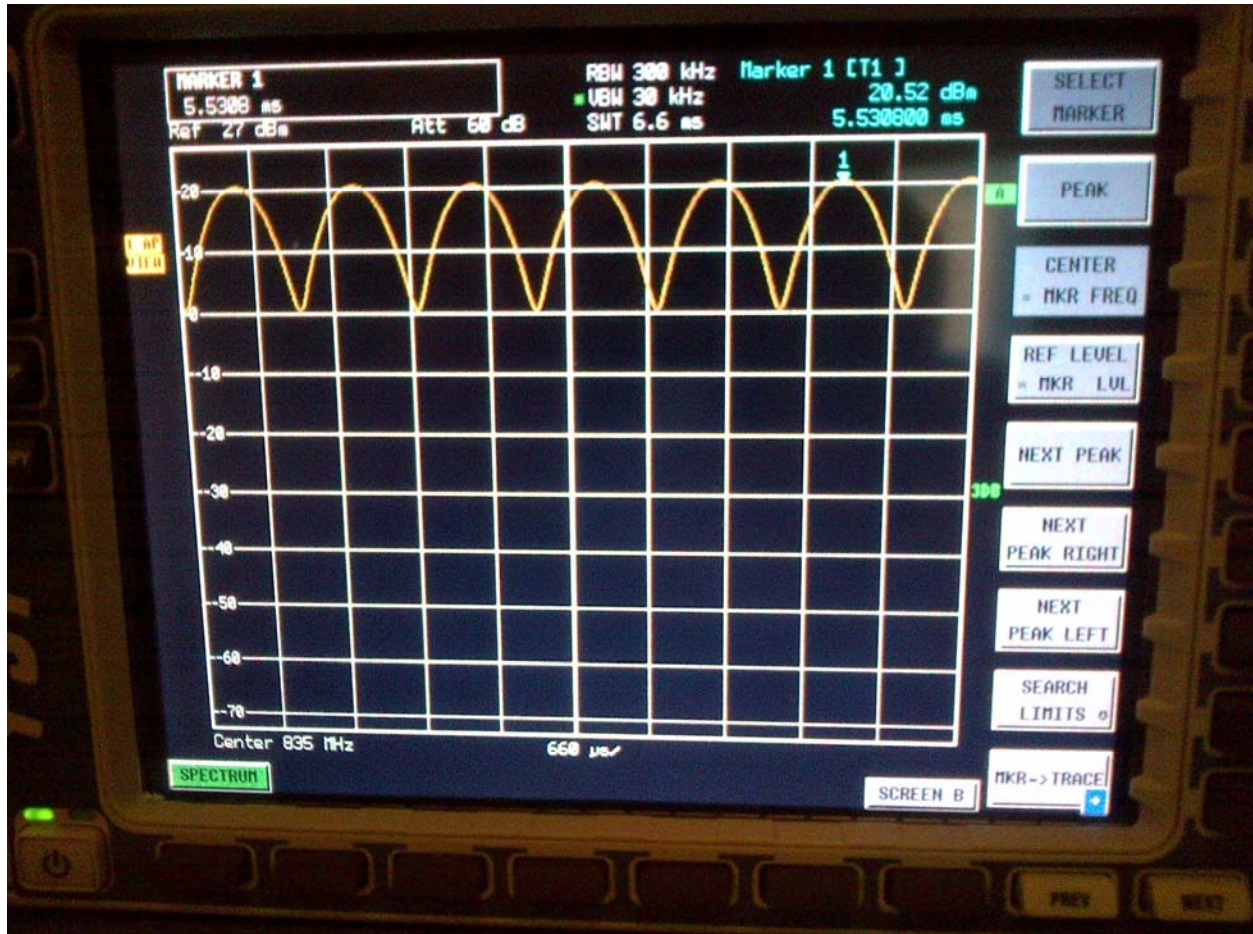
**CW 835 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
March 22-June 04, 2013**

Report No  
**RTS-6036-1304-53**

FCC ID  
**L6ARFR100LW**



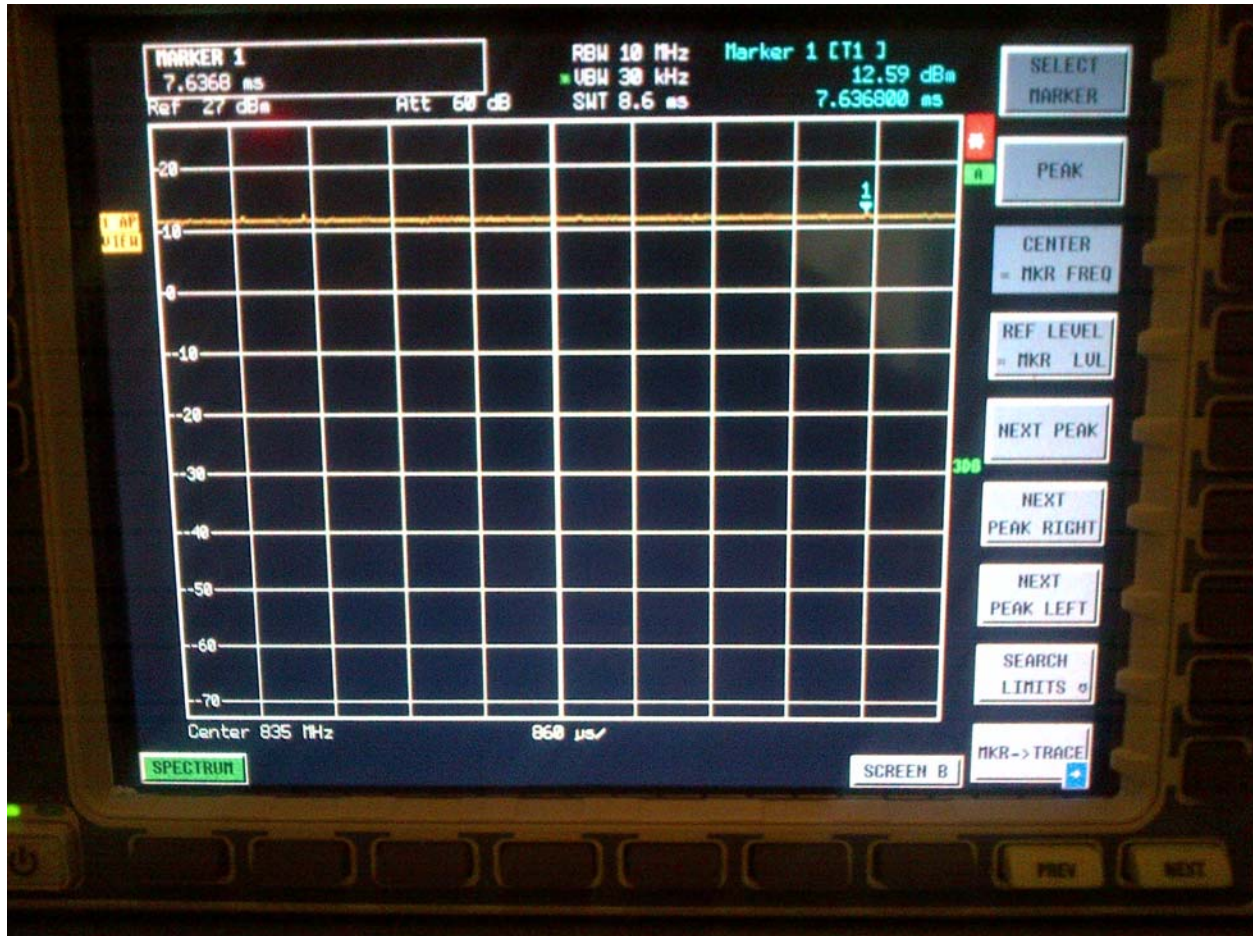
**AM 80% 835 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
 March 22-June 04, 2013**

Report No  
**RTS-6036-1304-53**

FCC ID  
**L6ARFR100LW**



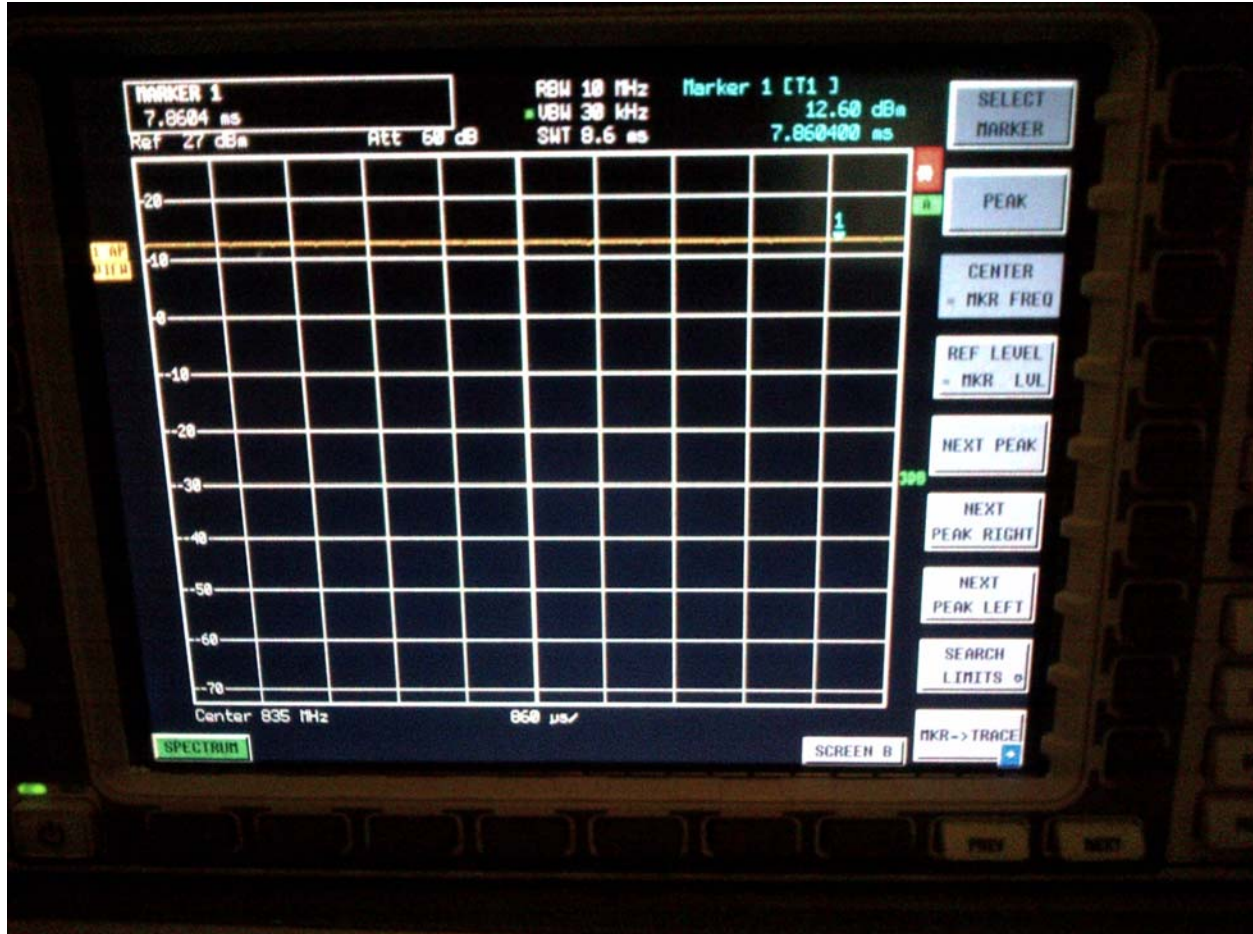
**UMTS 835 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
 March 22-June 04, 2013**

Report No  
**RTS-6036-1304-53**

FCC ID  
**L6ARFR100LW**



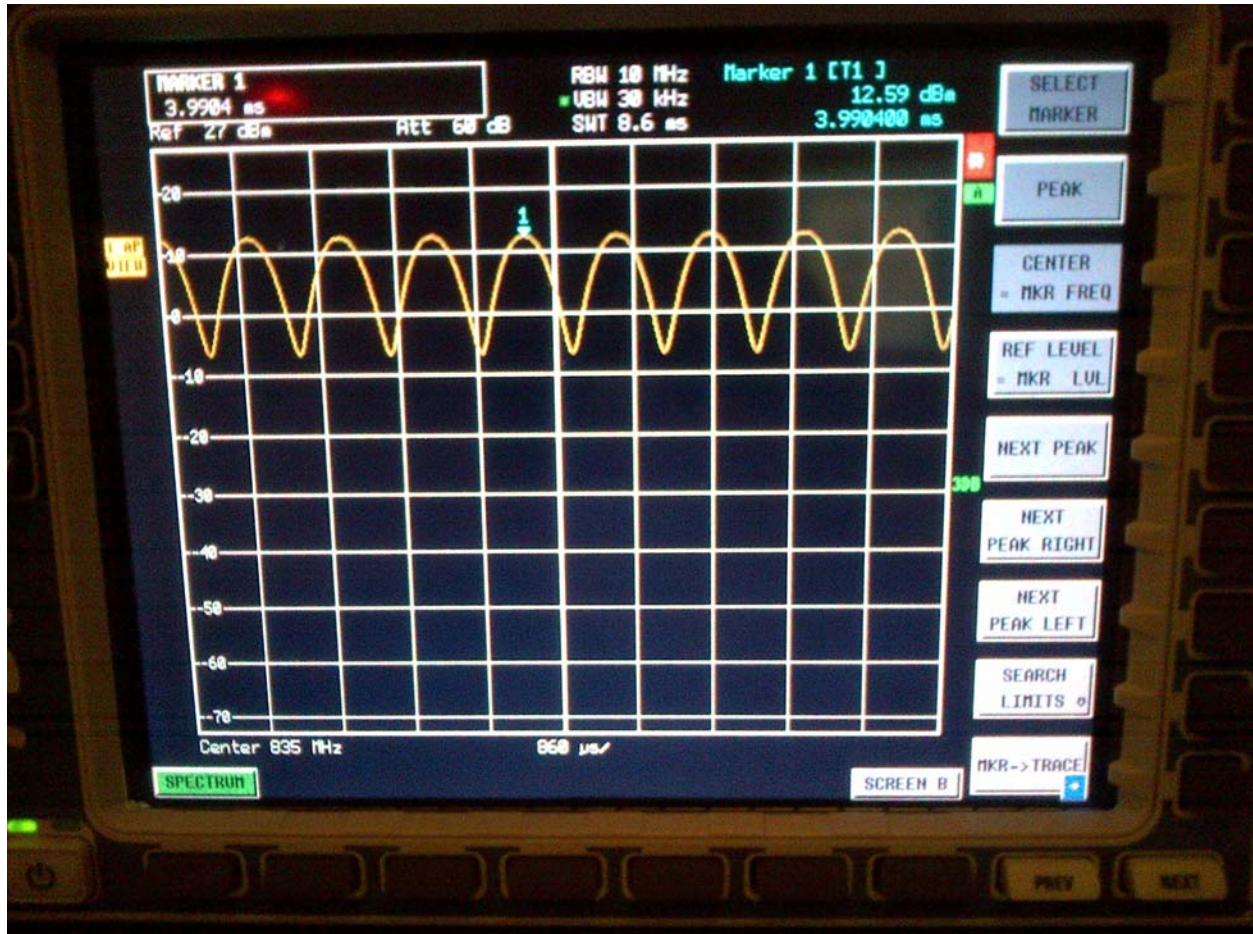
**CW 835 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
 March 22-June 04, 2013**

Report No  
**RTS-6036-1304-53**

FCC ID  
**L6ARFR100LW**



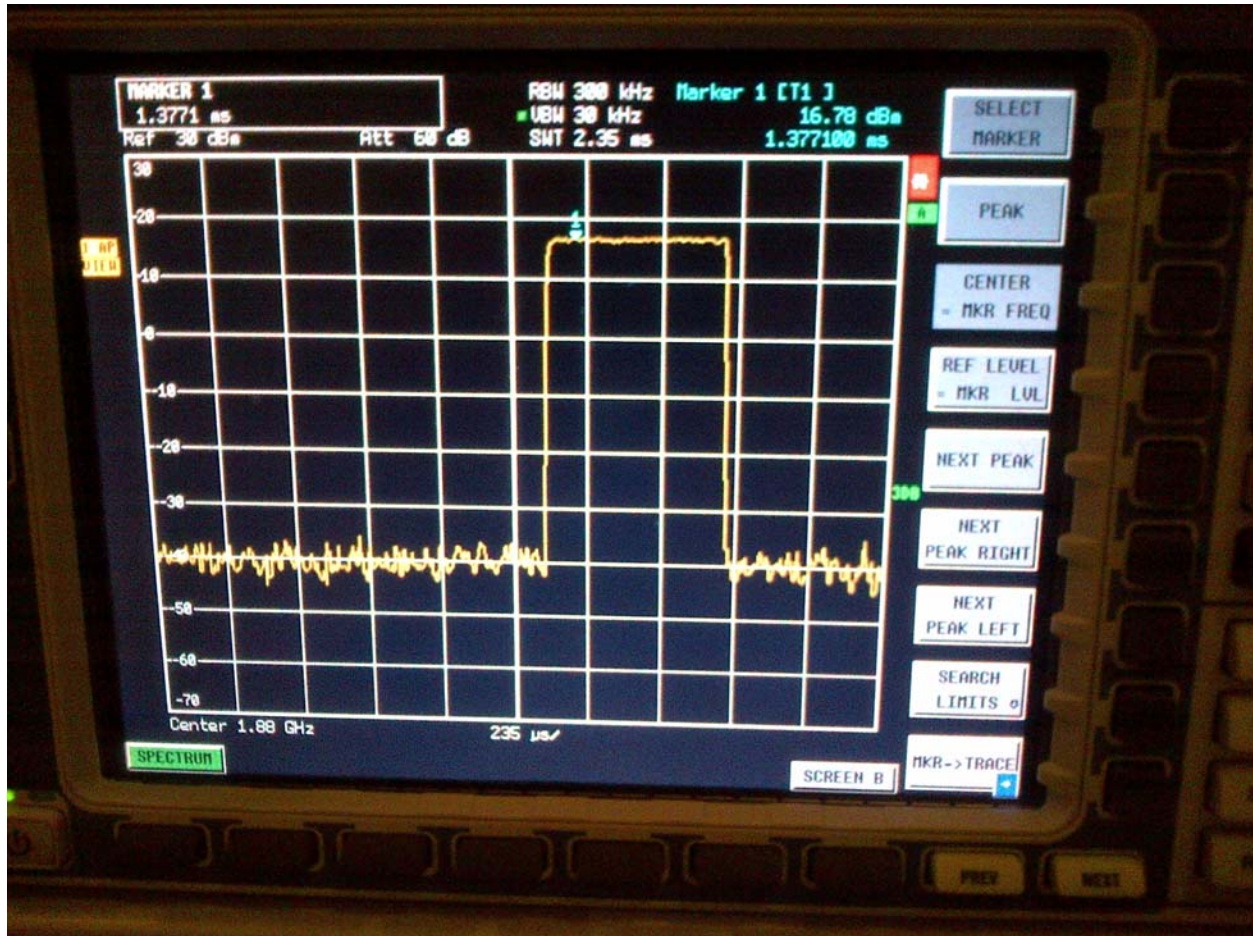
**AM 80% 835 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
March 22-June 04, 2013**

Report No  
**RTS-6036-1304-53**

FCC ID  
**L6ARFR100LW**



**GSM 1880 MHz**

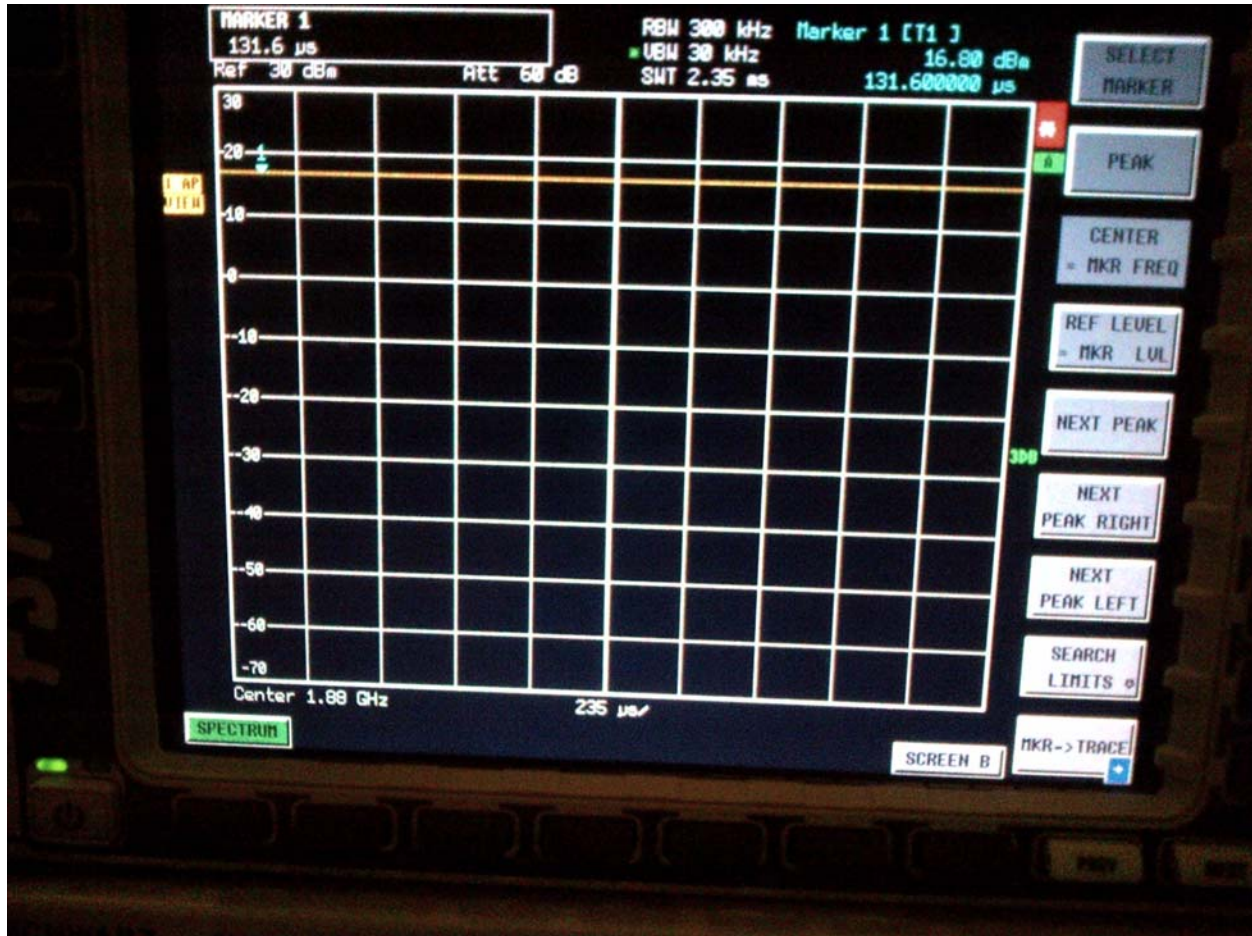


Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
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**CW 1880 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
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Report No  
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FCC ID  
**L6ARFR100LW**



**AM 80 % 1880 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
 March 22-June 04, 2013**

Report No  
**RTS-6036-1304-53**

FCC ID  
**L6ARFR100LW**



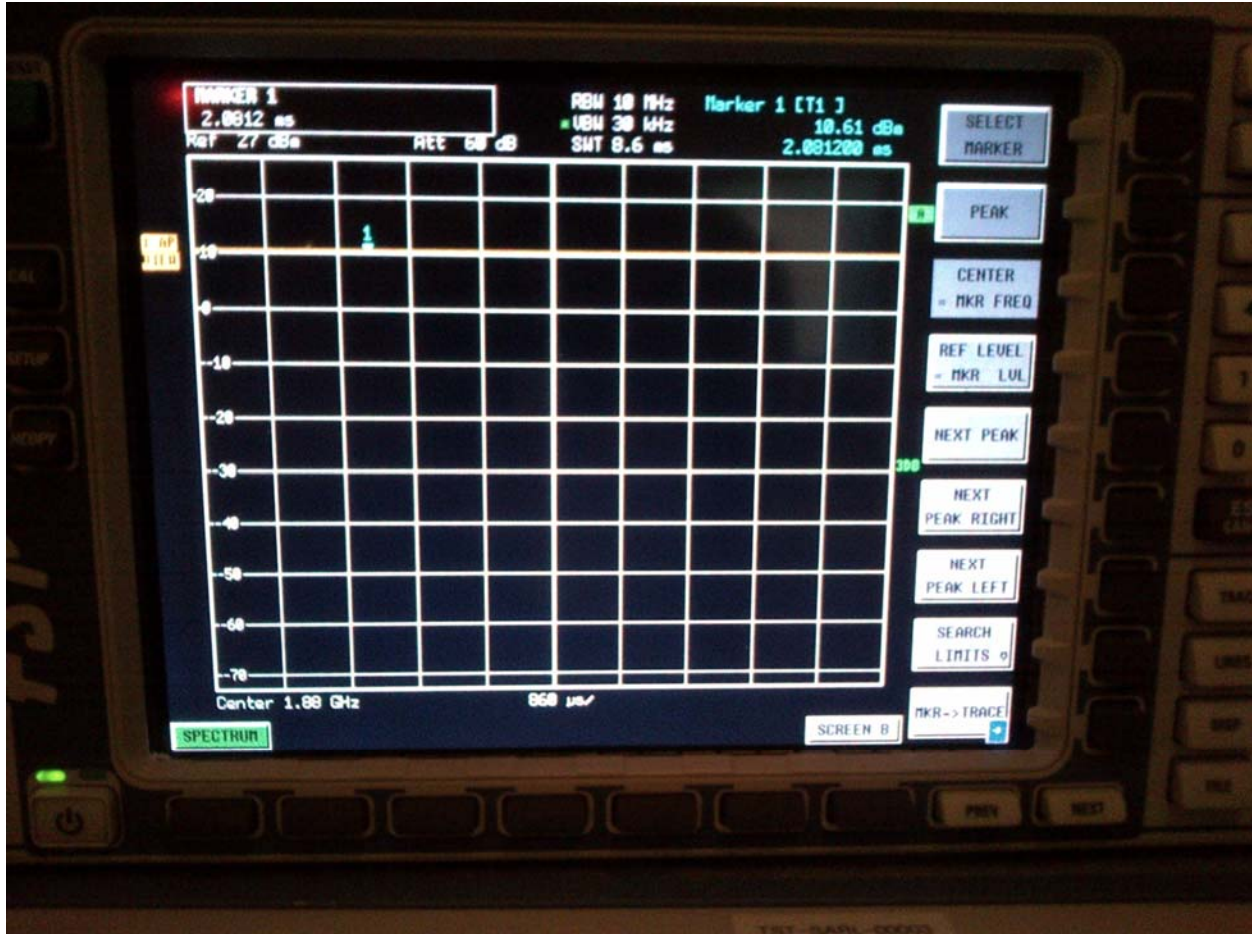
UMTS 1880 MHz

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
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Report No  
**RTS-6036-1304-53**

FCC ID  
**L6ARFR100LW**



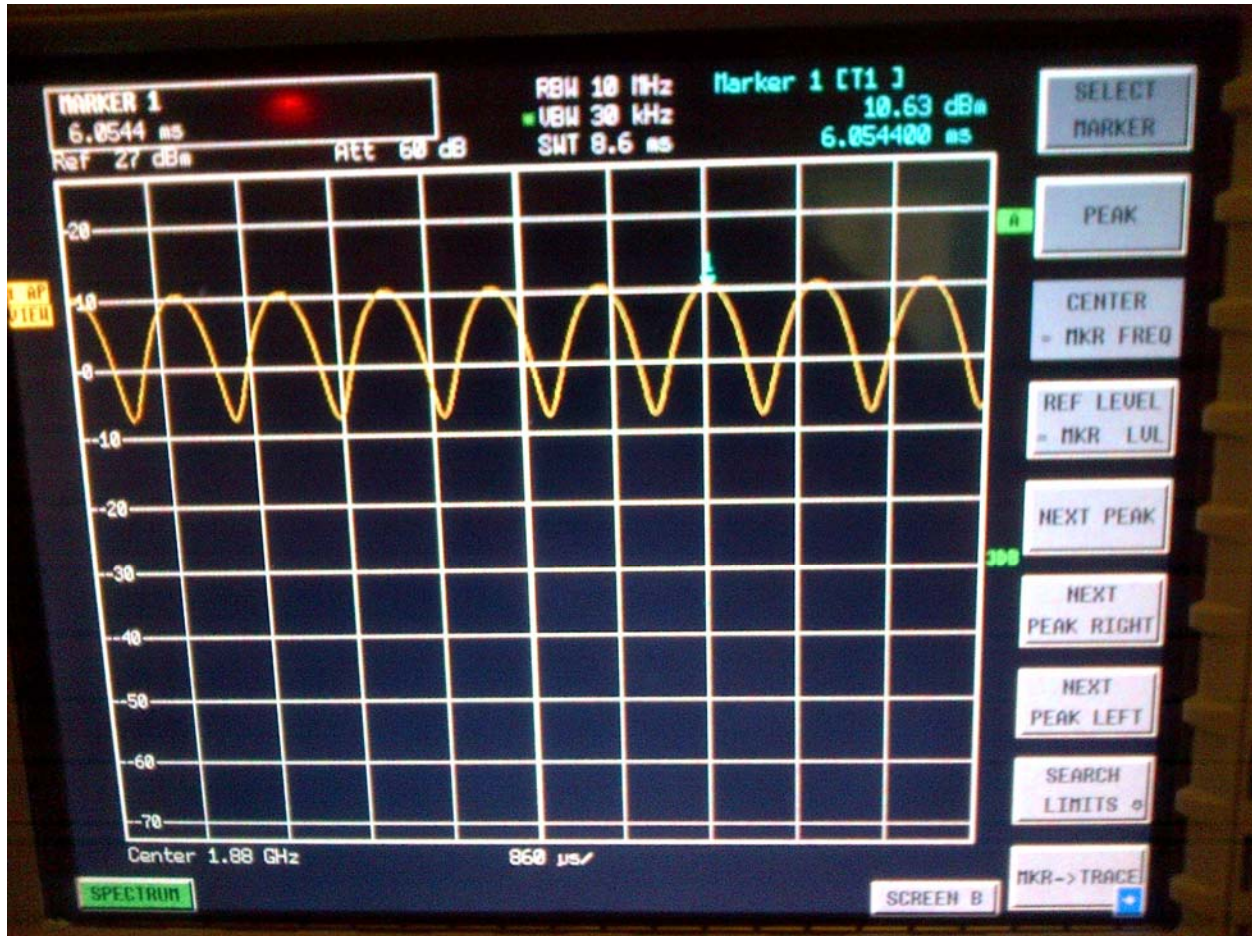
**CW 1880 MHz**

Author Data  
**Daoud Attayi**


Dates of Test  
**Feb. 17, June 28, 2012  
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**AM 80 % 1880 MHz**

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## A.2 Dipole validation and probe modulation factor plots

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Date/Time: 4/24/2013 3:48:05 PM

Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_validation\_835 MHz\_04\_24\_13**

**DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1011**

Communication System: CW; Frequency: 835 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

### **Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test**

**(41x361x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 106.1 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 168.2 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>153.8 V/m</b>	Grid 2 <b>M4</b> <b>164.4 V/m</b>	Grid 3 <b>M4</b> <b>164.1 V/m</b>
Grid 4 <b>M4</b> <b>81.96 V/m</b>	Grid 5 <b>M4</b> <b>85.57 V/m</b>	Grid 6 <b>M4</b> <b>84.27 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
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Report No  
**RTS-6036-1304-53**

FCC ID  
**L6ARFR100LW**

**154.3 V/m**

**168.2 V/m**

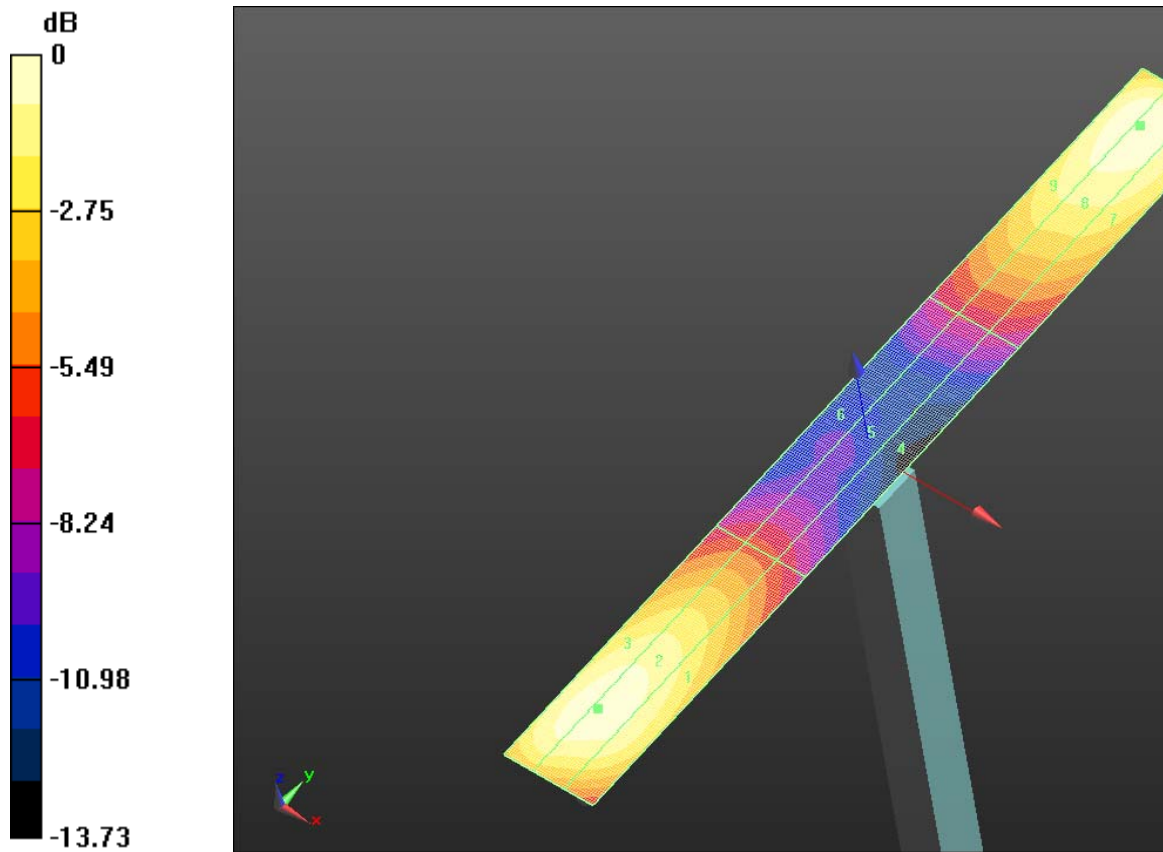
**167.7 V/m**

**Cursor:**

Total = 168.2 V/m


E Category: M4

Location: -2.5, 80, 4.7 mm



0 dB = 168.2 V/m = 44.52 dBV/m



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Date/Time: 6/28/2012 1:13:34 PM

Test Laboratory: RIM Testing Services

### HAC RF\_E-Field\_PMF\_GSM835 MHz\_06\_28\_12

**DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011**

Communication System: GSM 835\_PMF, Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

### Dipole E-Field measurement/E Scan - GSM 835\_PMF/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 34.76 V/m; Power Drift = -0.00 dB

PMR not calibrated. PMF = 1.000 is applied.


E-field emissions = 54.25 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>49.26 V/m</b>	Grid 2 <b>M4</b> <b>51.48 V/m</b>	Grid 3 <b>M4</b> <b>51.48 V/m</b>
Grid 4 <b>M4</b> <b>27.95 V/m</b>	Grid 5 <b>M4</b> <b>28.56 V/m</b>	Grid 6 <b>M4</b> <b>28.13 V/m</b>
Grid 7 <b>M4</b> <b>51.48 V/m</b>	Grid 8 <b>M4</b> <b>54.25 V/m</b>	Grid 9 <b>M4</b> <b>53.95 V/m</b>

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**Cursor:**

Total = 54.247 V/m  
E Category: M4  
Location: -2.5, 80.5, 4.7 mm

**Dipole E-Field measurement/E Scan - CW 835\_PMF/Hearing Aid Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 103.0 V/m; Power Drift = -0.02 dB  
PMR not calibrated. PMF = 1.000 is applied.  
E-field emissions = 162.8 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>148.5 V/m</b>	Grid 2 <b>M4</b> <b>160.5 V/m</b>	Grid 3 <b>M4</b> <b>160.4 V/m</b>
Grid 4 <b>M4</b> <b>82.74 V/m</b>	Grid 5 <b>M4</b> <b>86.24 V/m</b>	Grid 6 <b>M4</b> <b>84.62 V/m</b>
Grid 7 <b>M4</b> <b>158.1 V/m</b>	Grid 8 <b>M4</b> <b>162.8 V/m</b>	Grid 9 <b>M4</b> <b>155.2 V/m</b>

**Cursor:**

Total = 162.8 V/m  
E Category: M4  
Location: 0.5, 79.5, 4.7 mm

**Dipole E-Field measurement/E Scan - AM80%\_ 835\_PMF/Hearing Aid Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 64.73 V/m; Power Drift = 0.02 dB  
PMR not calibrated. PMF = 1.000 is applied.  
E-field emissions = 102.0 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>93.30 V/m</b>	Grid 2 <b>M4</b> <b>100.3 V/m</b>	Grid 3 <b>M4</b> <b>100.3 V/m</b>
Grid 4 <b>M4</b>	Grid 5 <b>M4</b>	Grid 6 <b>M4</b>

Author Data  
**Daoud Attayi**

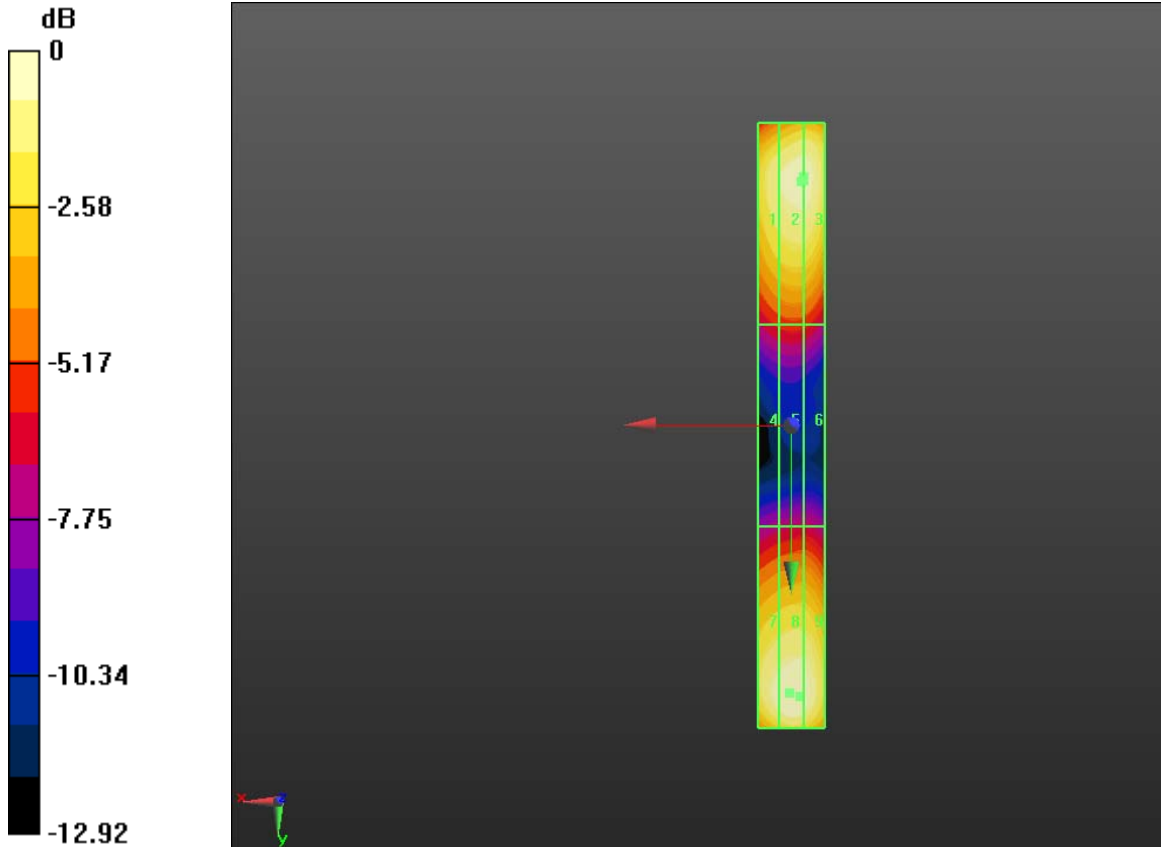
Dates of Test  
**Feb. 17, June 28, 2012  
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**L6ARFR100LW**

<b>52.75 V/m</b>	<b>54.62 V/m</b>	<b>53.83 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>
<b>99.38 V/m</b>	<b>102.0 V/m</b>	<b>97.92 V/m</b>

**Cursor:**  
 Total = 102.0 V/m  
 E Category: M4  
 Location: 0.5, 79.5, 4.7 mm



0 dB = 54.250V/m = 34.69 dB V/m

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Date/Time: 2/17/2012 12:24:15 PM

Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_PMF\_UMTS835 MHz\_02\_17\_12**

**DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011**

Communication System: WCDMA FDD V, Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface),  $z = 4.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

### **Dipole E-Field measurement/E Scan - UMTS 835\_PMF/Hearing Aid Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 41.08 V/m; Power Drift = 0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 64.41 V/m

**Near-field category: M4 (AWF 0 dB)**



Author Data  
**Daoud Attayi**

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PMF scaled E-field

Grid 1 <b>M4</b> <b>53.11 V/m</b>	Grid 2 <b>M4</b> <b>55.59 V/m</b>	Grid 3 <b>M4</b> <b>55.40 V/m</b>
Grid 4 <b>M4</b> <b>29.72 V/m</b>	Grid 5 <b>M4</b> <b>30.66 V/m</b>	Grid 6 <b>M4</b> <b>29.79 V/m</b>
Grid 7 <b>M4</b> <b>61.55 V/m</b>	Grid 8 <b>M4</b> <b>64.41 V/m</b>	Grid 9 <b>M4</b> <b>63.22 V/m</b>

**Cursor:**

Total = 64.412 V/m  
 E Category: M4  
 Location: -0.5, 79, 4.7 mm

**Dipole E-Field measurement/E Scan - CW 835\_PMF/Hearing Aid  
 Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 43.11 V/m; Power Drift = -0.14 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 E-field emissions = 68.64 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>58.55 V/m</b>	Grid 2 <b>M4</b> <b>59.20 V/m</b>	Grid 3 <b>M4</b> <b>57.13 V/m</b>
Grid 4 <b>M4</b> <b>32.35 V/m</b>	Grid 5 <b>M4</b> <b>32.63 V/m</b>	Grid 6 <b>M4</b> <b>31.24 V/m</b>
Grid 7 <b>M4</b> <b>61.85 V/m</b>	Grid 8 <b>M4</b> <b>68.64 V/m</b>	Grid 9 <b>M4</b> <b>68.56 V/m</b>



Author Data  
**Daoud Attayi**

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**Cursor:**

Total = 68.635 V/m  
 E Category: M4  
 Location: -3, 79.5, 4.7 mm

**Dipole E-Field measurement/E Scan - AM80%\_ 835\_PMF/Hearing  
 Aid Compatibility Test (41x361x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 28.41 V/m; Power Drift = 0.09 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 E-field emissions = 45.21 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>38.28 V/m</b>	Grid 2 <b>M4</b> <b>38.73 V/m</b>	Grid 3 <b>M4</b> <b>37.25 V/m</b>
Grid 4 <b>M4</b> <b>21.72 V/m</b>	Grid 5 <b>M4</b> <b>21.89 V/m</b>	Grid 6 <b>M4</b> <b>20.80 V/m</b>
Grid 7 <b>M4</b> <b>40.90 V/m</b>	Grid 8 <b>M4</b> <b>45.21 V/m</b>	Grid 9 <b>M4</b> <b>45.16 V/m</b>

**Cursor:**

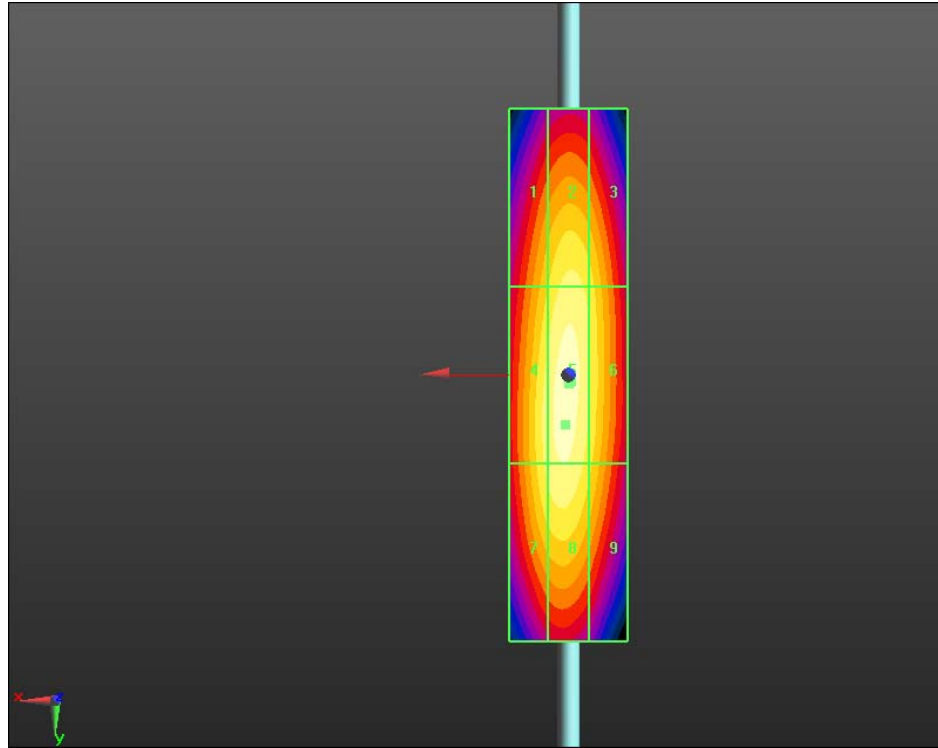
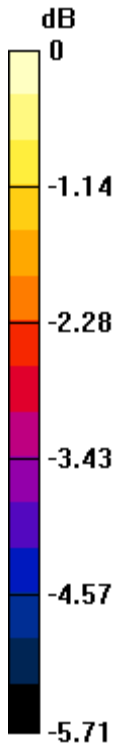
Total = 45.209 V/m  
 E Category: M4  
 Location: -3, 79.5, 4.7 mm

Author Data  
**Daoud Attayi**


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0 dB = 0.180A/m = -14.89 dB A/m

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Date/Time: 4/24/2013 3:08:00 PM

Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_validation\_1880 MHz\_04\_24\_13**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008**

Communication System: CW; Frequency: 1880 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

### **Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test**

**(41x181x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 142.0 V/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 131.0 V/m

**Near-field category: M2 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M2</b> <b>121.1 V/m</b>	Grid 2 <b>M2</b> <b>130.6 V/m</b>	Grid 3 <b>M2</b> <b>130.4 V/m</b>
Grid 4 <b>M3</b> <b>82.22 V/m</b>	Grid 5 <b>M3</b> <b>87.04 V/m</b>	Grid 6 <b>M3</b> <b>85.72 V/m</b>
Grid 7 <b>M2</b>	Grid 8 <b>M2</b>	Grid 9 <b>M2</b>

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Author Data  
**Daoud Attayi**

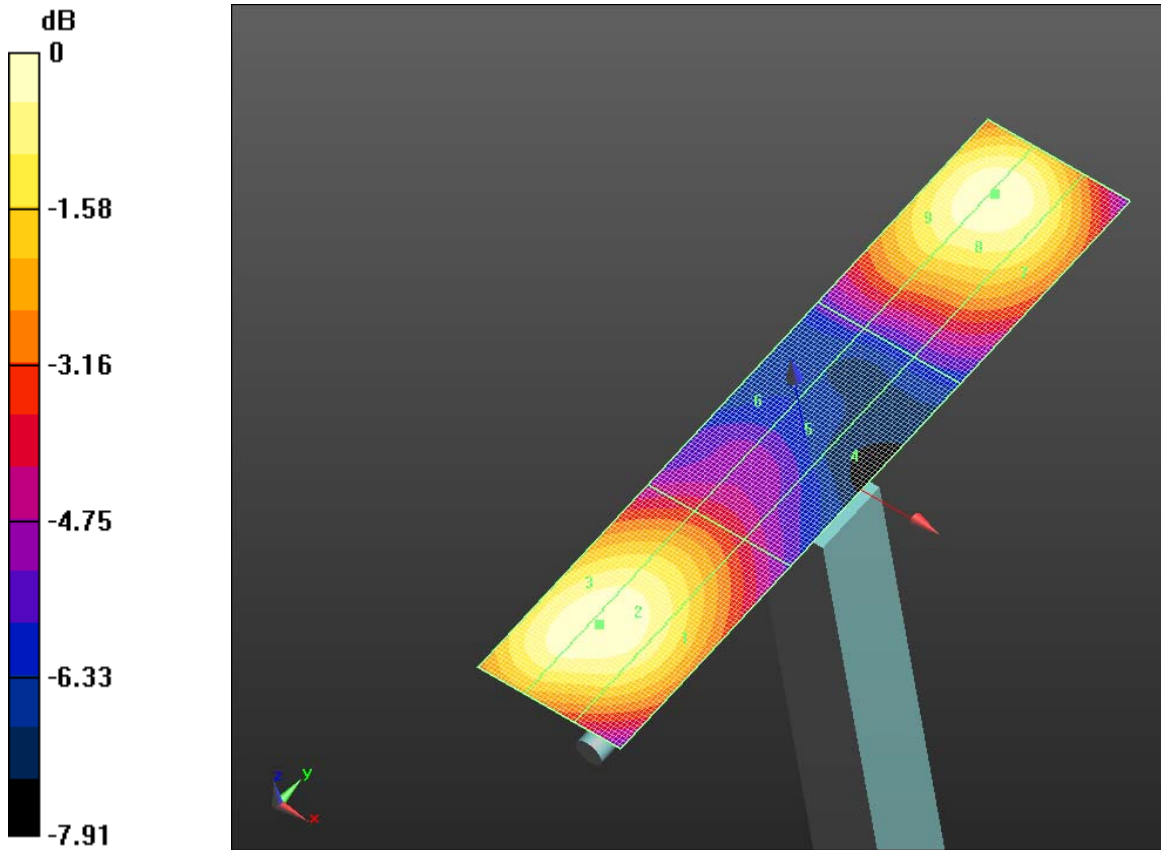
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<b>118.4 V/m</b>	<b>131.0 V/m</b>	<b>130.8 V/m</b>
------------------	------------------	------------------

**Cursor:**  
Total = 131.0 V/m  
E Category: M2  
Location: -3, 37.5, 4.7 mm



0 dB = 131.0 V/m = 42.35 dBV/m

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Date/Time: 6/3/2013 4:32:36 PM

Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_validation\_1880 MHz\_06\_03\_13**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008**

Communication System: UID 0 - n/a, CW; Frequency: 1880 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS 52.8.6(1115); SEMCAD X 14.6.9(7117)

### **Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test**

**(41x181x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 139.6 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 128.7 V/m

**Near-field category: M2 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M2</b> <b>118.5 V/m</b>	Grid 2 <b>M2</b> <b>127.4 V/m</b>	Grid 3 <b>M2</b> <b>127.3 V/m</b>
Grid 4 <b>M3</b> <b>81.74 V/m</b>	Grid 5 <b>M3</b> <b>86.52 V/m</b>	Grid 6 <b>M3</b> <b>85.43 V/m</b>
Grid 7 <b>M2</b>	Grid 8 <b>M2</b>	Grid 9 <b>M2</b>

Author Data  
**Daoud Attayi**

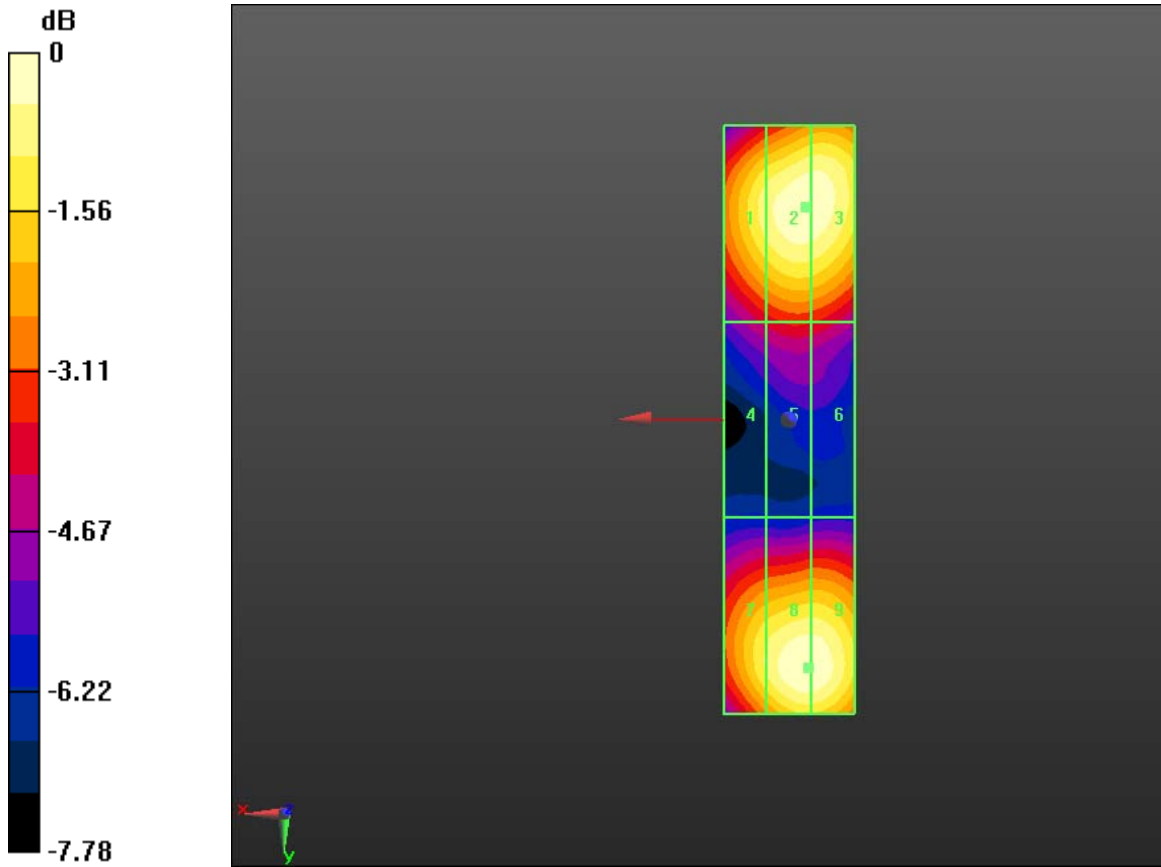
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<b>115.5 V/m</b>	<b>128.7 V/m</b>	<b>128.6 V/m</b>
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**Cursor:**  
 Total = 128.7 V/m  
 E Category: M2  
 Location: -3, 38, 4.7 mm



0 dB = 128.7 V/m = 42.19 dBV/m

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Date/Time: 2/17/2012 3:04:25 PM

Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_PMF\_UMTS1733 MHz\_02\_17\_12**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008**

Communication System: WCDMA FDD IV, Communication System: CW, Communication System: AM 80%; Frequency: 1732.6 MHz, Frequency: 1733 MHz  
Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

### **Dipole E-Field measurement/E Scan - UMTS 1733\_PMF/Hearing Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 50.62 V/m; Power Drift = -0.07 dB  
PMR not calibrated. PMF = 1.000 is applied.  
E-field emissions = 45.31 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>38.99 V/m</b>	Grid 2 <b>M4</b> <b>40.35 V/m</b>	Grid 3 <b>M4</b> <b>39.86 V/m</b>
Grid 4 <b>M4</b> <b>28.58 V/m</b>	Grid 5 <b>M4</b> <b>29.21 V/m</b>	Grid 6 <b>M4</b> <b>28.30 V/m</b>
Grid 7 <b>M4</b> <b>42.57 V/m</b>	Grid 8 <b>M4</b> <b>45.31 V/m</b>	Grid 9 <b>M4</b> <b>44.53 V/m</b>

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**Daoud Attayi**

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**Cursor:**

Total = 45.306 V/m

E Category: M4

Location: -1, 38, 4.7 mm

**Dipole E-Field measurement/E Scan- CW 1733\_PMF/Hearing Aid  
 Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 50.63 V/m; Power Drift = 0.07 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 46.45 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>40.60 V/m</b>	Grid 2 <b>M4</b> <b>41.81 V/m</b>	Grid 3 <b>M4</b> <b>41.04 V/m</b>
Grid 4 <b>M4</b> <b>29.57 V/m</b>	Grid 5 <b>M4</b> <b>30.18 V/m</b>	Grid 6 <b>M4</b> <b>29.29 V/m</b>
Grid 7 <b>M4</b> <b>44.02 V/m</b>	Grid 8 <b>M4</b> <b>46.45 V/m</b>	Grid 9 <b>M4</b> <b>45.54 V/m</b>

**Cursor:**

Total = 46.446 V/m

E Category: M4

Location: -1, 38, 4.7 mm

**Dipole E-Field measurement/E Scan - AM80%\_ 1733\_PMF/Hearing  
 Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 32.26 V/m; Power Drift = 0.12 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 29.45 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>25.68 V/m</b>	Grid 2 <b>M4</b> <b>26.42 V/m</b>	Grid 3 <b>M4</b> <b>25.96 V/m</b>
Grid 4 <b>M4</b>	Grid 5 <b>M4</b>	Grid 6 <b>M4</b>

Author Data  
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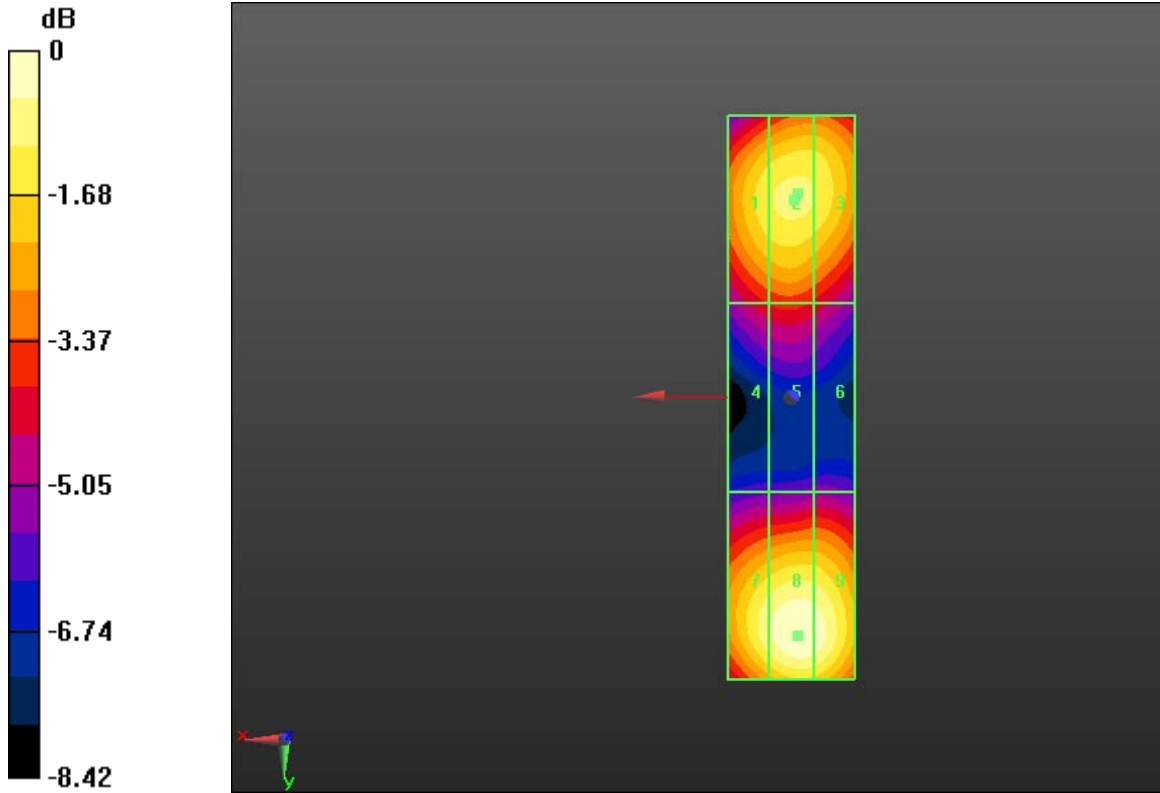
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<b>18.91 V/m</b>	<b>19.39 V/m</b>	<b>18.52 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>
<b>27.45 V/m</b>	<b>29.45 V/m</b>	<b>28.94 V/m</b>

**Cursor:**  
 Total = 29.451 V/m  
 E Category: M4  
 Location: -1, 38, 4.7 mm



0 dB = 45.310V/m = 33.12 dB V/m

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Date/Time: 6/28/2012 12:54:33 PM

Test Laboratory: RIM Testing Services

### HAC RF\_E-Field\_PMF\_GSM1880 MHz\_06\_28\_12

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008**

Communication System: GSM 1880, Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

### Dipole E-Field measurement/E Scan - GSM 1880\_PMF/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 33.26 V/m; Power Drift = 0.00 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 29.81 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>27.34 V/m</b>	Grid 2 <b>M4</b> <b>28.65 V/m</b>	Grid 3 <b>M4</b> <b>28.59 V/m</b>
Grid 4 <b>M4</b> <b>19.83 V/m</b>	Grid 5 <b>M4</b> <b>20.51 V/m</b>	Grid 6 <b>M4</b> <b>20.10 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>



Author Data  
**Daoud Attayi**

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<b>28.20 V/m</b>	<b>29.81 V/m</b>	<b>29.37 V/m</b>
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**Cursor:**  
 Total = 29.810 V/m  
 E Category: M4  
 Location: -1, 38.5, 4.7 mm

**Dipole E-Field measurement/E Scan- CW 1800\_PMF/Hearing Aid  
 Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 95.34 V/m; Power Drift = 0.01 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 E-field emissions = 84.88 V/m

**Near-field category: M3 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M3</b> <b>78.80 V/m</b>	Grid 2 <b>M3</b> <b>82.95 V/m</b>	Grid 3 <b>M3</b> <b>82.43 V/m</b>
Grid 4 <b>M4</b> <b>56.84 V/m</b>	Grid 5 <b>M4</b> <b>58.53 V/m</b>	Grid 6 <b>M4</b> <b>56.53 V/m</b>
Grid 7 <b>M3</b> <b>80.11 V/m</b>	Grid 8 <b>M3</b> <b>84.88 V/m</b>	Grid 9 <b>M3</b> <b>83.31 V/m</b>

**Cursor:**  
 Total = 84.885 V/m  
 E Category: M3  
 Location: -0.5, 38.5, 4.7 mm

**Dipole E-Field measurement/E Scan - AM80%\_ 1880\_PMF/Hearing  
 Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 60.62 V/m; Power Drift = -0.03 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 E-field emissions = 53.60 V/m

**Near-field category: M4 (AWF 0 dB)**



Author Data  
**Daoud Attayi**

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PMF scaled E-field

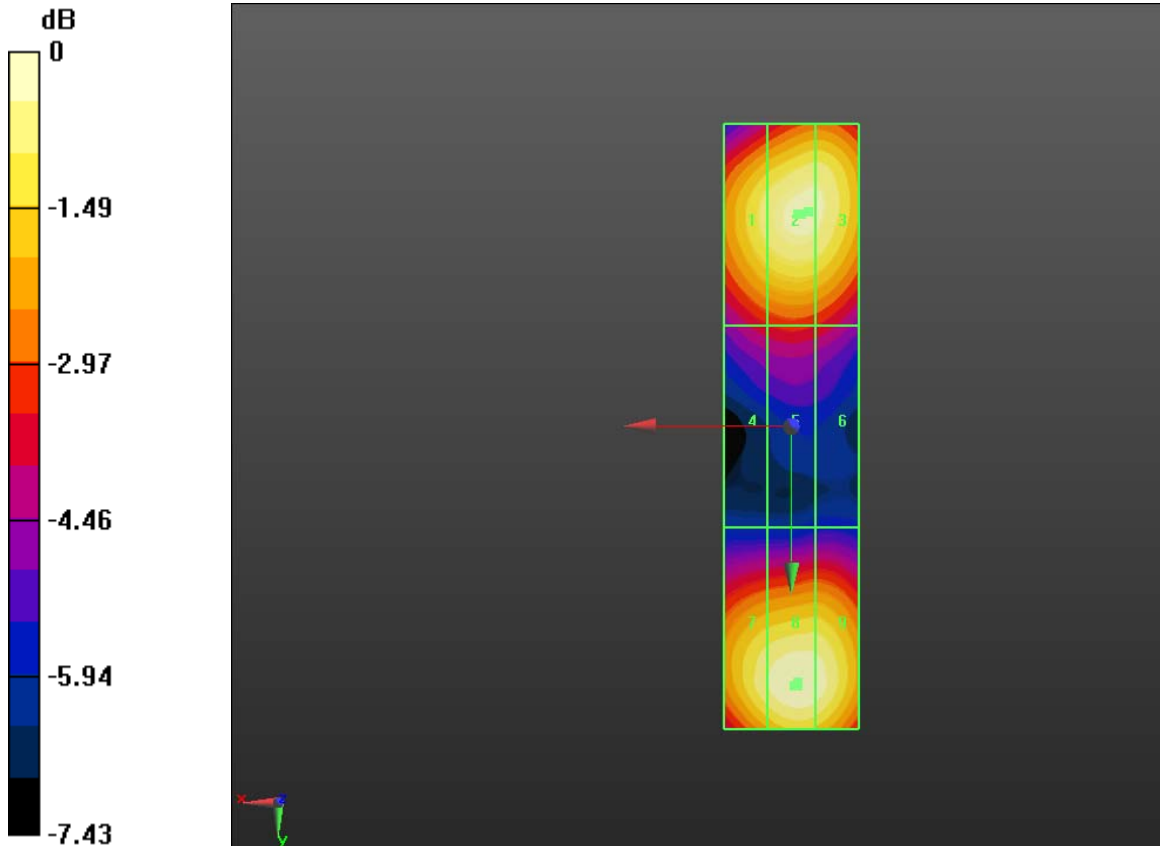
Grid 1 <b>M4</b> <b>49.75 V/m</b>	Grid 2 <b>M4</b> <b>52.55 V/m</b>	Grid 3 <b>M4</b> <b>52.06 V/m</b>
Grid 4 <b>M4</b> <b>35.78 V/m</b>	Grid 5 <b>M4</b> <b>36.92 V/m</b>	Grid 6 <b>M4</b> <b>36.02 V/m</b>
Grid 7 <b>M4</b> <b>50.66 V/m</b>	Grid 8 <b>M4</b> <b>53.60 V/m</b>	Grid 9 <b>M4</b> <b>52.63 V/m</b>

**Cursor:**


Total = 53.599 V/m

E Category: M4

Location: -1, 38, 4.7 mm



0 dB = 29.810V/m = 29.49 dB V/m

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Date/Time: 2/17/2012 2:20:23 PM

Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_PMF\_UMTS1880 MHz\_02\_17\_12**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008**

Communication System: WCDMA FDD II, Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

### **Dipole E-Field measurement/E Scan - UMTS 1880\_PMF/Hearing Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 47.02 V/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 42.43 V/m

**Near-field category: M4 (AWF 0 dB)**



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PMF scaled E-field

Grid 1 <b>M4</b> <b>37.98 V/m</b>	Grid 2 <b>M4</b> <b>39.42 V/m</b>	Grid 3 <b>M4</b> <b>39.04 V/m</b>
Grid 4 <b>M4</b> <b>26.86 V/m</b>	Grid 5 <b>M4</b> <b>27.50 V/m</b>	Grid 6 <b>M4</b> <b>26.70 V/m</b>
Grid 7 <b>M4</b> <b>39.63 V/m</b>	Grid 8 <b>M4</b> <b>42.43 V/m</b>	Grid 9 <b>M4</b> <b>41.87 V/m</b>

**Cursor:**

Total = 42.427 V/m

E Category: M4

Location: -1, 38, 4.7 mm

**Dipole E-Field measurement/E Scan- CW 1800\_PMF/Hearing Aid  
 Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 47.33 V/m; Power Drift = -0.05 dB


PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 42.41 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>38.23 V/m</b>	Grid 2 <b>M4</b> <b>39.51 V/m</b>	Grid 3 <b>M4</b> <b>39.41 V/m</b>
Grid 4 <b>M4</b> <b>26.94 V/m</b>	Grid 5 <b>M4</b> <b>27.41 V/m</b>	Grid 6 <b>M4</b> <b>26.77 V/m</b>
Grid 7 <b>M4</b> <b>40.02 V/m</b>	Grid 8 <b>M4</b> <b>42.41 V/m</b>	Grid 9 <b>M4</b> <b>41.99 V/m</b>

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**Cursor:**

Total = 42.409 V/m  
E Category: M4  
Location: -1.5, 38, 4.7 mm

**Dipole E-Field measurement/E Scan - AM80%\_ 1880\_PMF/Hearing Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 30.18 V/m; Power Drift = 0.06 dB  
PMR not calibrated. PMF = 1.000 is applied.  
E-field emissions = 27.40 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>24.40 V/m</b>	Grid 2 <b>M4</b> <b>25.26 V/m</b>	Grid 3 <b>M4</b> <b>24.95 V/m</b>
Grid 4 <b>M4</b> <b>17.20 V/m</b>	Grid 5 <b>M4</b> <b>17.65 V/m</b>	Grid 6 <b>M4</b> <b>17.12 V/m</b>
Grid 7 <b>M4</b> <b>25.54 V/m</b>	Grid 8 <b>M4</b> <b>27.40 V/m</b>	Grid 9 <b>M4</b> <b>27.02 V/m</b>

**Cursor:**

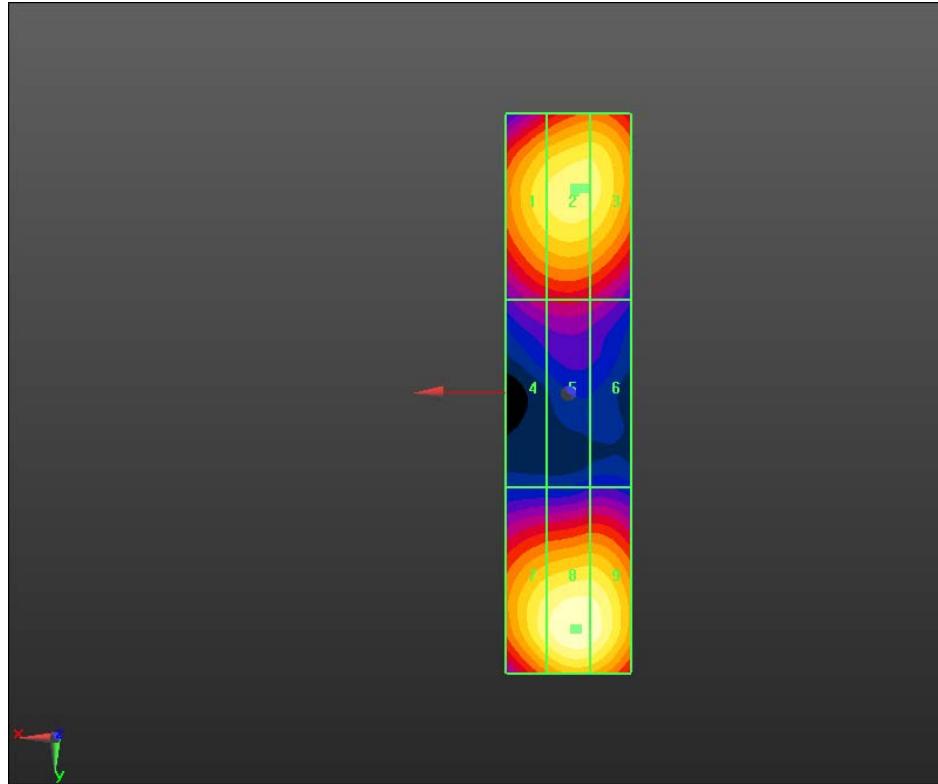
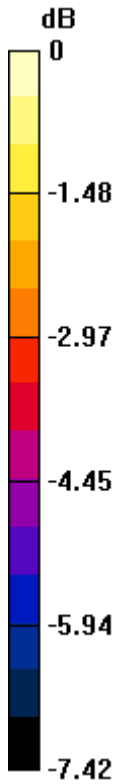
Total = 27.402 V/m  
E Category: M4  
Location: -1, 38, 4.7 mm

Author Data  
**Daoud Attayi**


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0 dB = 42.430V/m = 32.55 dB V/m

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Date/Time: 4/24/2013 4:14:18 PM

Test Laboratory: RIM Testing Services

**HAC RF\_H-Field\_validation\_835 MHz\_04\_24\_13**

**DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1011**

Communication System: CW; Frequency: 835 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

**Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid**

**Compatibility Test (41x181x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.5000 A/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.4745 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.416 A/m</b>	Grid 2 <b>M4</b> <b>0.459 A/m</b>	Grid 3 <b>M4</b> <b>0.452 A/m</b>
Grid 4 <b>M4</b> <b>0.431 A/m</b>	Grid 5 <b>M4</b> <b>0.474 A/m</b>	Grid 6 <b>M4</b> <b>0.465 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

Author Data  
**Daoud Attayi**

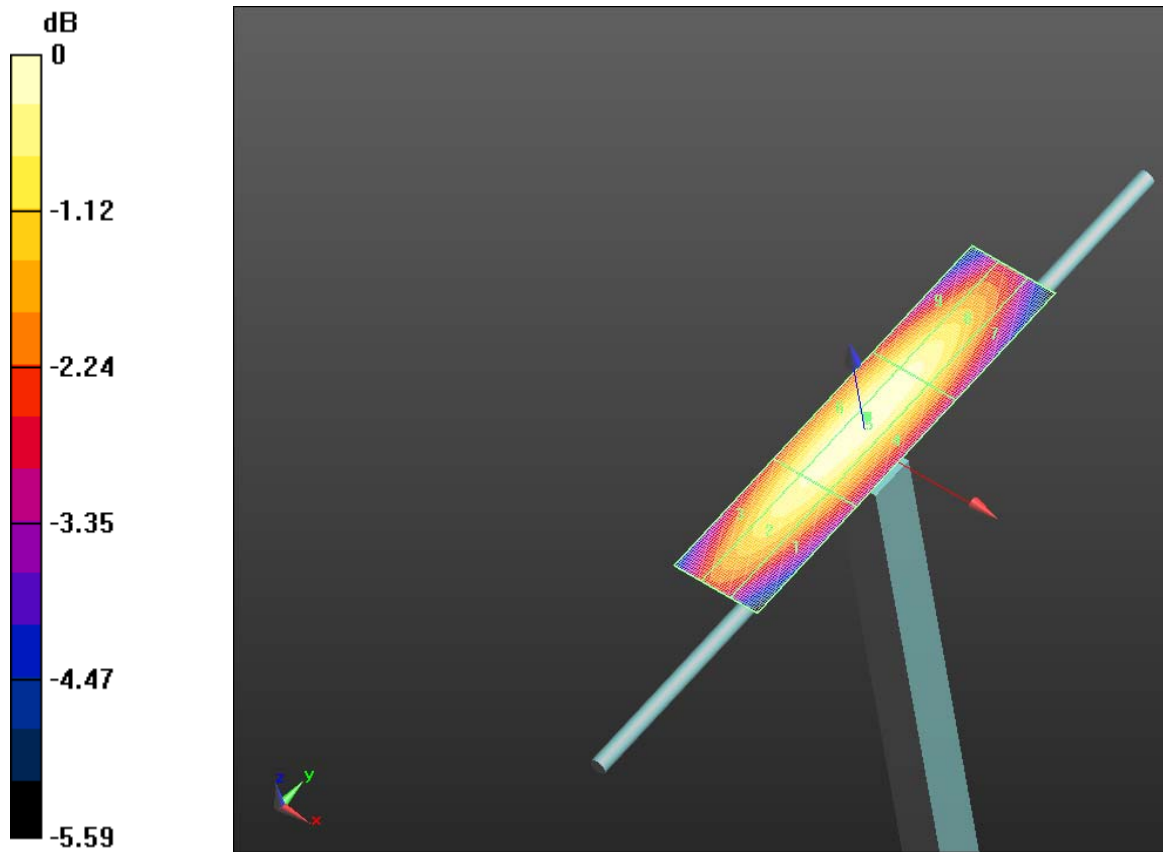
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<b>0.425 A/m</b>	<b>0.462 A/m</b>	<b>0.449 A/m</b>
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**Cursor:**  
 Total = 0.4744 A/m  
 H Category: M4  
 Location: -1.5, 2.5, 4.7 mm



0 dB = 0.4744 A/m = -6.48 dBA/m

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Date/Time: 6/28/2012 11:48:13 AM

Test Laboratory: RIM Testing Services

**HAC RF\_H-Field\_PMF\_GSM835 MHz\_06\_28\_12**

**DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011**

Communication System: GSM 835\_PMF, Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz  
Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

**Dipole H-Field measurement with H3DV6 probe/H Scan - GSM 835\_PMF/Hearing Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.17 V/m; Power Drift = -0.01 dB  
PMR not calibrated. PMF = 1.000 is applied.  
H-field emissions = 0.16 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.15 A/m</b>	Grid 2 <b>M4</b> <b>0.16 A/m</b>	Grid 3 <b>M4</b> <b>0.15 A/m</b>
Grid 4 <b>M4</b>	Grid 5 <b>M4</b>	Grid 6 <b>M4</b>





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<b>0.16 A/m</b>	<b>0.16 A/m</b>	<b>0.16 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>
<b>0.15 A/m</b>	<b>0.16 A/m</b>	<b>0.15 A/m</b>

**Cursor:**

Total = 0.163 A/m  
 H Category: M4  
 Location: 0, 8.5, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan - CW  
 835\_PMF/Hearing Aid Compatibility Test (41x181x1):** Measurement grid:

dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.28 V/m; Power Drift = 0.08 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 H-field emissions = 0.47 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.44 A/m</b>	Grid 2 <b>M4</b> <b>0.46 A/m</b>	Grid 3 <b>M4</b> <b>0.44 A/m</b>
Grid 4 <b>M4</b> <b>0.45 A/m</b>	Grid 5 <b>M4</b> <b>0.47 A/m</b>	Grid 6 <b>M4</b> <b>0.45 A/m</b>
Grid 7 <b>M4</b> <b>0.45 A/m</b>	Grid 8 <b>M4</b> <b>0.47 A/m</b>	Grid 9 <b>M4</b> <b>0.44 A/m</b>

**Cursor:**

Total = 0.471 A/m  
 H Category: M4  
 Location: 0, 8, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan -  
 AM80%\_PMF/Hearing Aid Compatibility Test (41x181x1):**

Measurement grid: dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.32 V/m; Power Drift = 0.12 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 H-field emissions = 0.30 A/m

**Near-field category: M4 (AWF 0 dB)**

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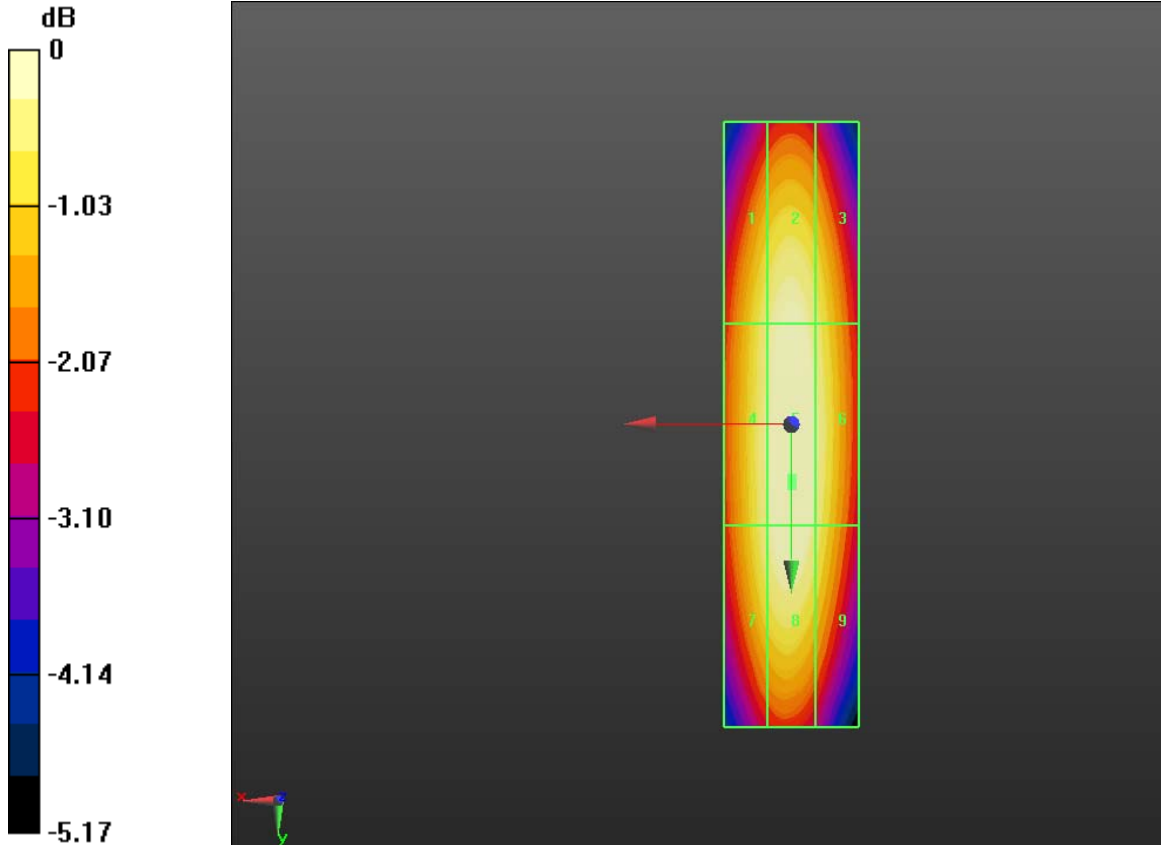
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PMF scaled H-field

Grid 1 <b>M4</b> <b>0.28 A/m</b>	Grid 2 <b>M4</b> <b>0.29 A/m</b>	Grid 3 <b>M4</b> <b>0.28 A/m</b>
Grid 4 <b>M4</b> <b>0.29 A/m</b>	Grid 5 <b>M4</b> <b>0.30 A/m</b>	Grid 6 <b>M4</b> <b>0.29 A/m</b>
Grid 7 <b>M4</b> <b>0.29 A/m</b>	Grid 8 <b>M4</b> <b>0.30 A/m</b>	Grid 9 <b>M4</b> <b>0.28 A/m</b>

**Cursor:**  
 Total = 0.304 A/m  
 H Category: M4  
 Location: 0, 9, 4.7 mm



0 dB = 0.160A/m = -15.92 dB A/m

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Date/Time: 2/17/2012 4:08:25 PM

Test Laboratory: RIM Testing Services

### **HAC RF\_H-Field\_PMF\_UMTS835 MHz\_02\_17\_12**

**DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1011**

Communication System: WCDMA FDD V, Communication System: CW, Communication System: AM 80%; Frequency: 835 MHz

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

### **Dipole H-Field measurement with H3DV6 probe/H Scan - UMTS**

**835\_PMF/Hearing Aid Compatibility Test (41x181x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.19 V/m; Power Drift = 0.05 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.18 A/m

**Near-field category: M4 (AWF 0 dB)**



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PMF scaled H-field

Grid 1 <b>M4</b> <b>0.16 A/m</b>	Grid 2 <b>M4</b> <b>0.17 A/m</b>	Grid 3 <b>M4</b> <b>0.16 A/m</b>
Grid 4 <b>M4</b> <b>0.17 A/m</b>	Grid 5 <b>M4</b> <b>0.18 A/m</b>	Grid 6 <b>M4</b> <b>0.17 A/m</b>
Grid 7 <b>M4</b> <b>0.17 A/m</b>	Grid 8 <b>M4</b> <b>0.18 A/m</b>	Grid 9 <b>M4</b> <b>0.17 A/m</b>

**Cursor:**

Total = 0.181 A/m  
 H Category: M4  
 Location: 0.5, 8.5, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan - CW**

**835\_PMF/Hearing Aid Compatibility Test (41x181x1):** Measurement grid:

dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.11 V/m; Power Drift = 0.08 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.20 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.17 A/m</b>	Grid 2 <b>M4</b> <b>0.19 A/m</b>	Grid 3 <b>M4</b> <b>0.18 A/m</b>
Grid 4 <b>M4</b> <b>0.18 A/m</b>	Grid 5 <b>M4</b> <b>0.20 A/m</b>	Grid 6 <b>M4</b> <b>0.19 A/m</b>
Grid 7 <b>M4</b> <b>0.18 A/m</b>	Grid 8 <b>M4</b> <b>0.19 A/m</b>	Grid 9 <b>M4</b> <b>0.18 A/m</b>



Author Data  
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**Cursor:**

Total = 0.197 A/m  
 H Category: M4  
 Location: -0.5, 1, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan -  
 AM80%\_PMF/Hearing Aid Compatibility Test (41x181x1):**

Measurement grid: dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.14 V/m; Power Drift = 0.10 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 H-field emissions = 0.13 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.11 A/m</b>	Grid 2 <b>M4</b> <b>0.12 A/m</b>	Grid 3 <b>M4</b> <b>0.12 A/m</b>
Grid 4 <b>M4</b> <b>0.12 A/m</b>	Grid 5 <b>M4</b> <b>0.13 A/m</b>	Grid 6 <b>M4</b> <b>0.12 A/m</b>
Grid 7 <b>M4</b> <b>0.12 A/m</b>	Grid 8 <b>M4</b> <b>0.12 A/m</b>	Grid 9 <b>M4</b> <b>0.12 A/m</b>

**Cursor:**

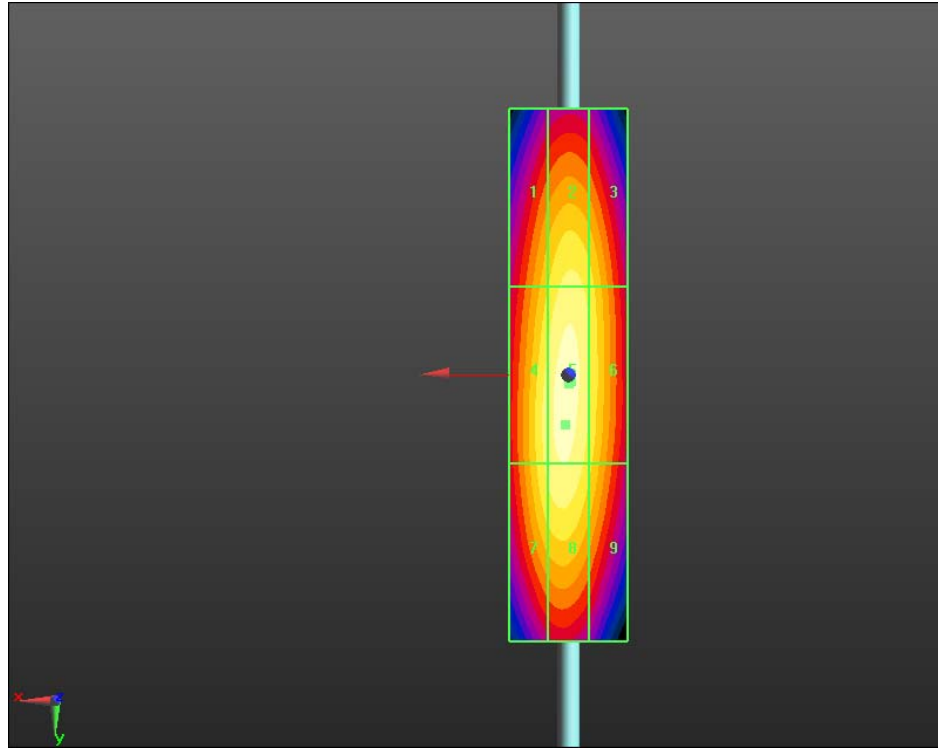
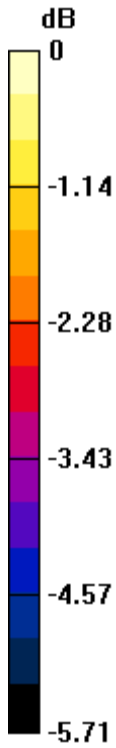
Total = 0.127 A/m  
 H Category: M4  
 Location: 0, 1.5, 4.7 mm

Author Data  
**Daoud Attayi**


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0 dB = 0.180A/m = -14.89 dB A/m

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Date/Time: 4/24/2013 4:30:53 PM

Test Laboratory: RIM Testing Services

### **HAC RF\_H-Field\_validation\_1880 MHz\_04\_24\_13**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008**

Communication System: CW; Frequency: 1880 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

### **Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid**

**Compatibility Test (41x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.5110 A/m; Power Drift = -0.06 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.4847 A/m

**Near-field category: M2 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M2</b> <b>0.427 A/m</b>	Grid 2 <b>M2</b> <b>0.473 A/m</b>	Grid 3 <b>M2</b> <b>0.467 A/m</b>
Grid 4 <b>M2</b> <b>0.438 A/m</b>	Grid 5 <b>M2</b> <b>0.485 A/m</b>	Grid 6 <b>M2</b> <b>0.479 A/m</b>
Grid 7 <b>M2</b>	Grid 8 <b>M2</b>	Grid 9 <b>M2</b>

Author Data  
**Daoud Attayi**

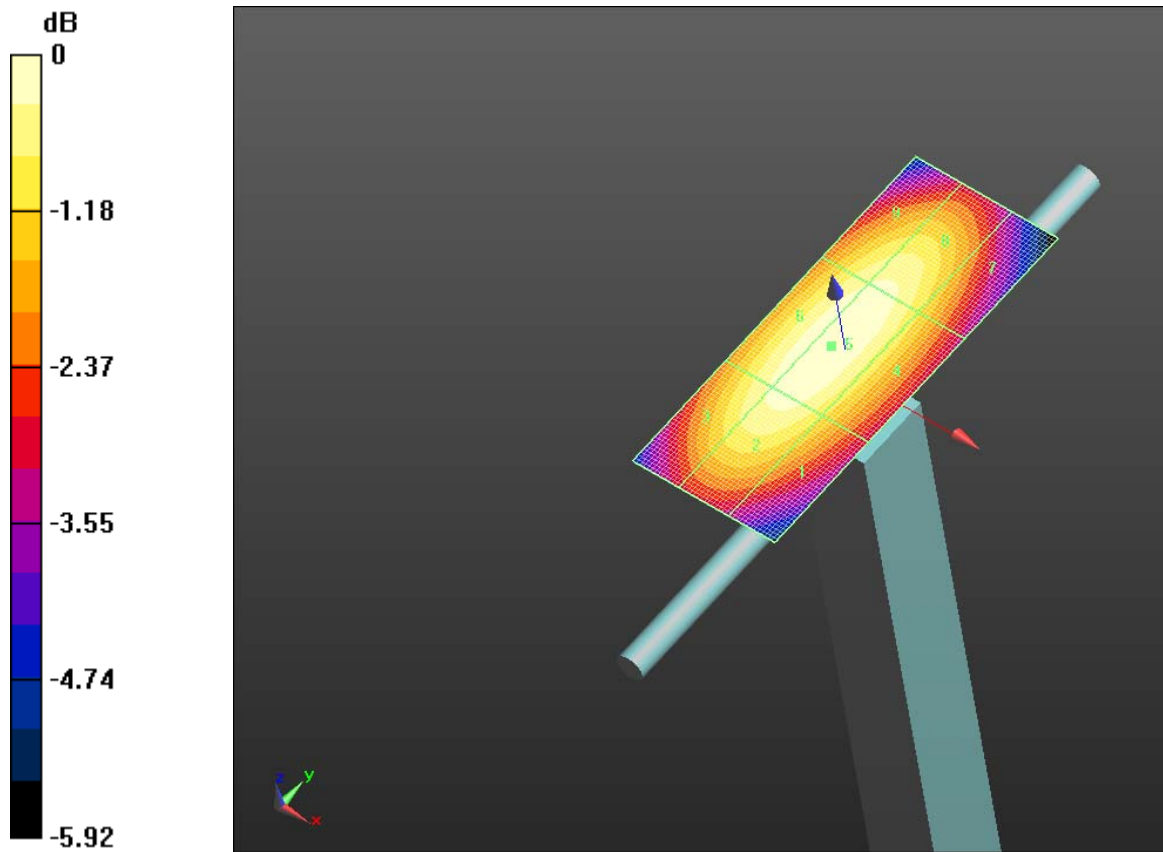
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<b>0.427 A/m</b>	<b>0.470 A/m</b>	<b>0.463 A/m</b>
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**Cursor:**  
Total = 0.4847 A/m  
H Category: M2  
Location: -1.5, -0.5, 4.7 mm



0 dB = 0.4847 A/m = -6.29 dBA/m



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Date/Time: 6/3/2013 4:49:38 PM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_validation\_1880 MHz\_06\_03\_13

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008**

Communication System: UID 0 - n/a, CW; Frequency: 1880 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

**Compatibility Test (41x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.4670 A/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.4465 A/m

**Near-field category: M2 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M2</b> <b>0.397 A/m</b>	Grid 2 <b>M2</b> <b>0.436 A/m</b>	Grid 3 <b>M2</b> <b>0.433 A/m</b>
Grid 4 <b>M2</b> <b>0.406 A/m</b>	Grid 5 <b>M2</b> <b>0.447 A/m</b>	Grid 6 <b>M2</b> <b>0.443 A/m</b>
Grid 7 <b>M2</b>	Grid 8 <b>M2</b>	Grid 9 <b>M2</b>

Author Data  
**Daoud Attayi**

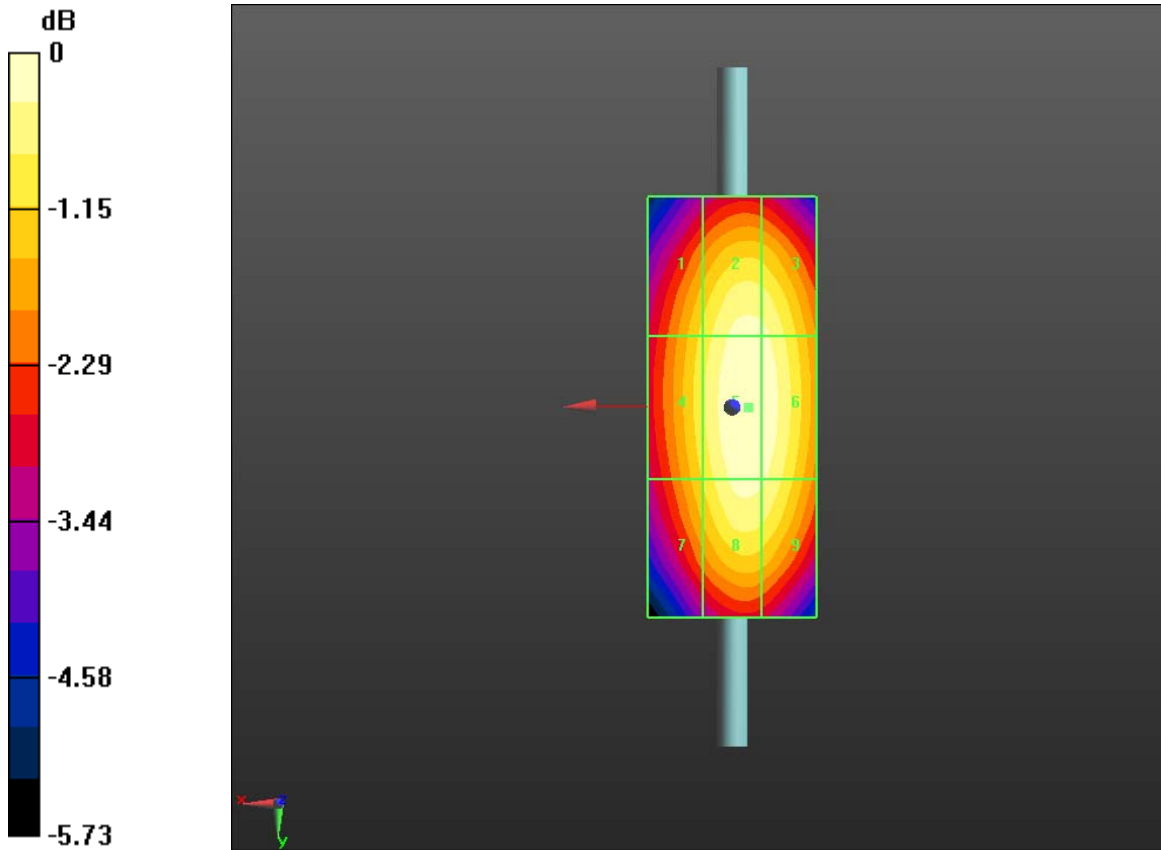
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<b>0.393 A/m</b>	<b>0.435 A/m</b>	<b>0.431 A/m</b>
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**Cursor:**  
 Total = 0.4465 A/m  
 H Category: M2  
 Location: -2, 0, 4.7 mm



0 dB = 0.4465 A/m = -7.00 dBA/m

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Date/Time: 2/17/2012 3:27:55 PM

Test Laboratory: RIM Testing Services

**HAC RF\_H-Field\_PMF\_UMTS1733 MHz\_02\_17\_12**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008**

Communication System: WCDMA FDD IV, Communication System: CW, Communication System: AM 80%; Frequency: 1732.6 MHz, Frequency: 1733 MHz  
Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Dipole H-Field measurement with H3DV6 probe/H Scan -UMTS**

**1733\_PMF/Hearing Aid Compatibility Test (41x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.17 V/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.16 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.14 A/m</b>	Grid 2 <b>M4</b> <b>0.15 A/m</b>	Grid 3 <b>M4</b> <b>0.14 A/m</b>
Grid 4 <b>M4</b> <b>0.15 A/m</b>	Grid 5 <b>M4</b> <b>0.16 A/m</b>	Grid 6 <b>M4</b> <b>0.15 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>



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<b>0.14 A/m</b>	<b>0.15 A/m</b>	<b>0.14 A/m</b>
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**Cursor:**  
 Total = 0.157 A/m  
 H Category: M4  
 Location: 0, 0, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan - CW  
 1733\_PMF/Hearing Aid Compatibility Test (41x101x1):** Measurement

grid: dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.17 V/m; Power Drift = -0.16 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 H-field emissions = 0.16 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.14 A/m</b>	Grid 2 <b>M4</b> <b>0.15 A/m</b>	Grid 3 <b>M4</b> <b>0.14 A/m</b>
Grid 4 <b>M4</b> <b>0.15 A/m</b>	Grid 5 <b>M4</b> <b>0.16 A/m</b>	Grid 6 <b>M4</b> <b>0.15 A/m</b>
Grid 7 <b>M4</b> <b>0.14 A/m</b>	Grid 8 <b>M4</b> <b>0.15 A/m</b>	Grid 9 <b>M4</b> <b>0.14 A/m</b>

**Cursor:**  
 Total = 0.157 A/m  
 H Category: M4  
 Location: -0.5, 0.5, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan -  
 AM80%\_1733\_PMF/Hearing Aid Compatibility Test (41x101x1):**

Measurement grid: dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.11 V/m; Power Drift = -0.14 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 H-field emissions = 0.10 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Author Data  
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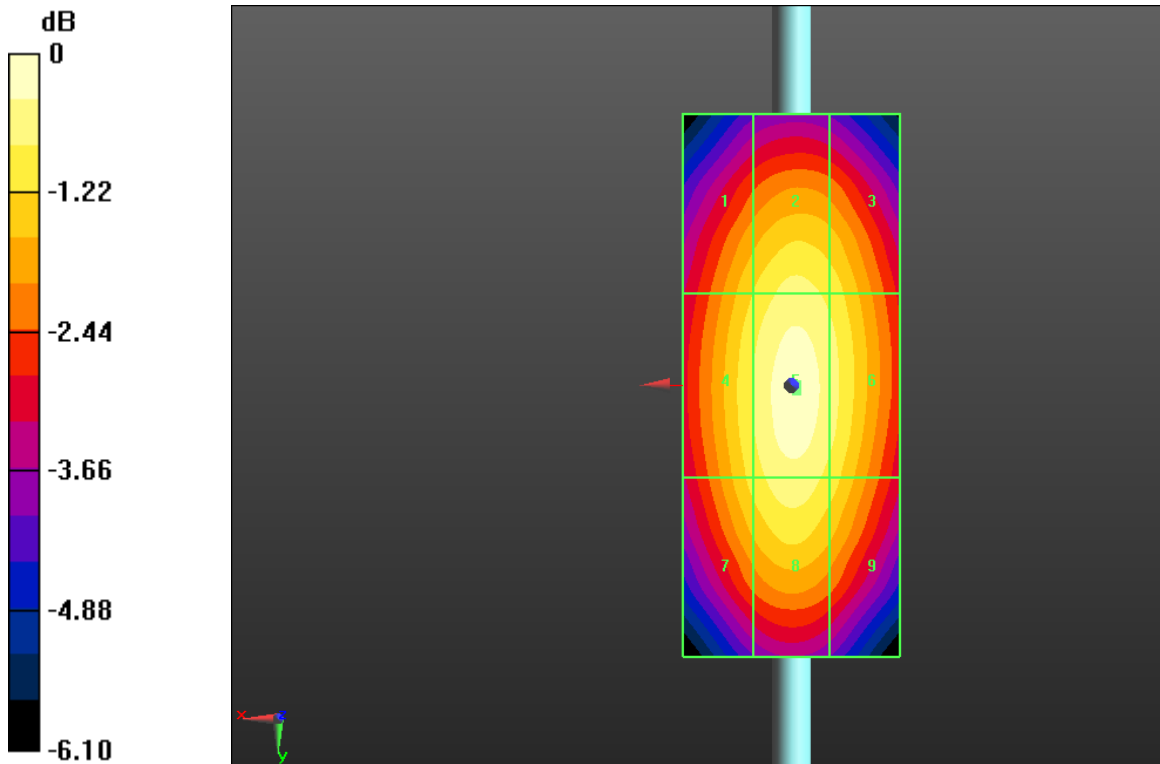
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Grid 1 <b>M4</b> <b>0.09 A/m</b>	Grid 2 <b>M4</b> <b>0.10 A/m</b>	Grid 3 <b>M4</b> <b>0.09 A/m</b>
Grid 4 <b>M4</b> <b>0.09 A/m</b>	Grid 5 <b>M4</b> <b>0.10 A/m</b>	Grid 6 <b>M4</b> <b>0.10 A/m</b>
Grid 7 <b>M4</b> <b>0.09 A/m</b>	Grid 8 <b>M4</b> <b>0.10 A/m</b>	Grid 9 <b>M4</b> <b>0.09 A/m</b>

**Cursor:**  
 Total = 0.100 A/m  
 H Category: M4  
 Location: -0.5, 0, 4.7 mm



0 dB = 0.160A/m = -15.92 dB A/m

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Date/Time: 6/28/2012 12:25:06 PM

Test Laboratory: RIM Testing Services

**HAC RF\_H-Field\_PMF\_GSM1880 MHz\_06\_28\_12**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008**

Communication System: GSM 1880\_PMF, Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

**Dipole H-Field measurement with H3DV6 probe/H Scan -GSM**

**1880\_PMF/Hearing Aid Compatibility Test (41x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.11 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.11 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.10 A/m</b>	Grid 2 <b>M4</b> <b>0.10 A/m</b>	Grid 3 <b>M4</b> <b>0.10 A/m</b>
Grid 4 <b>M4</b>	Grid 5 <b>M4</b>	Grid 6 <b>M4</b>



Author Data <b>Daoud Attayi</b>	Dates of Test <b>Feb. 17, June 28, 2012 March 22-June 04, 2013</b>	Report No <b>RTS-6036-1304-53</b>	FCC ID <b>L6ARFR100LW</b>
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<b>0.10 A/m</b>	<b>0.11 A/m</b>	<b>0.10 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>
<b>0.10 A/m</b>	<b>0.10 A/m</b>	<b>0.10 A/m</b>

**Cursor:**

Total = 0.105 A/m  
 H Category: M4  
 Location: 0, 0.5, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan - CW  
 1800\_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement**

grid: dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.32 V/m; Power Drift = 0.00 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 H-field emissions = 0.30 A/m

**Near-field category: M3 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.28 A/m</b>	Grid 2 <b>M3</b> <b>0.29 A/m</b>	Grid 3 <b>M3</b> <b>0.28 A/m</b>
Grid 4 <b>M3</b> <b>0.29 A/m</b>	Grid 5 <b>M3</b> <b>0.30 A/m</b>	Grid 6 <b>M3</b> <b>0.29 A/m</b>
Grid 7 <b>M3</b> <b>0.28 A/m</b>	Grid 8 <b>M3</b> <b>0.29 A/m</b>	Grid 9 <b>M3</b> <b>0.28 A/m</b>

**Cursor:**

Total = 0.300 A/m  
 H Category: M3  
 Location: 0, 1, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan -  
 AM80%\_1880\_PMF/Hearing Aid Compatibility Test (41x101x1):**

Measurement grid: dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.21 V/m; Power Drift = 0.02 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 H-field emissions = 0.19 A/m

**Near-field category: M3 (AWF 0 dB)**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, 2012  
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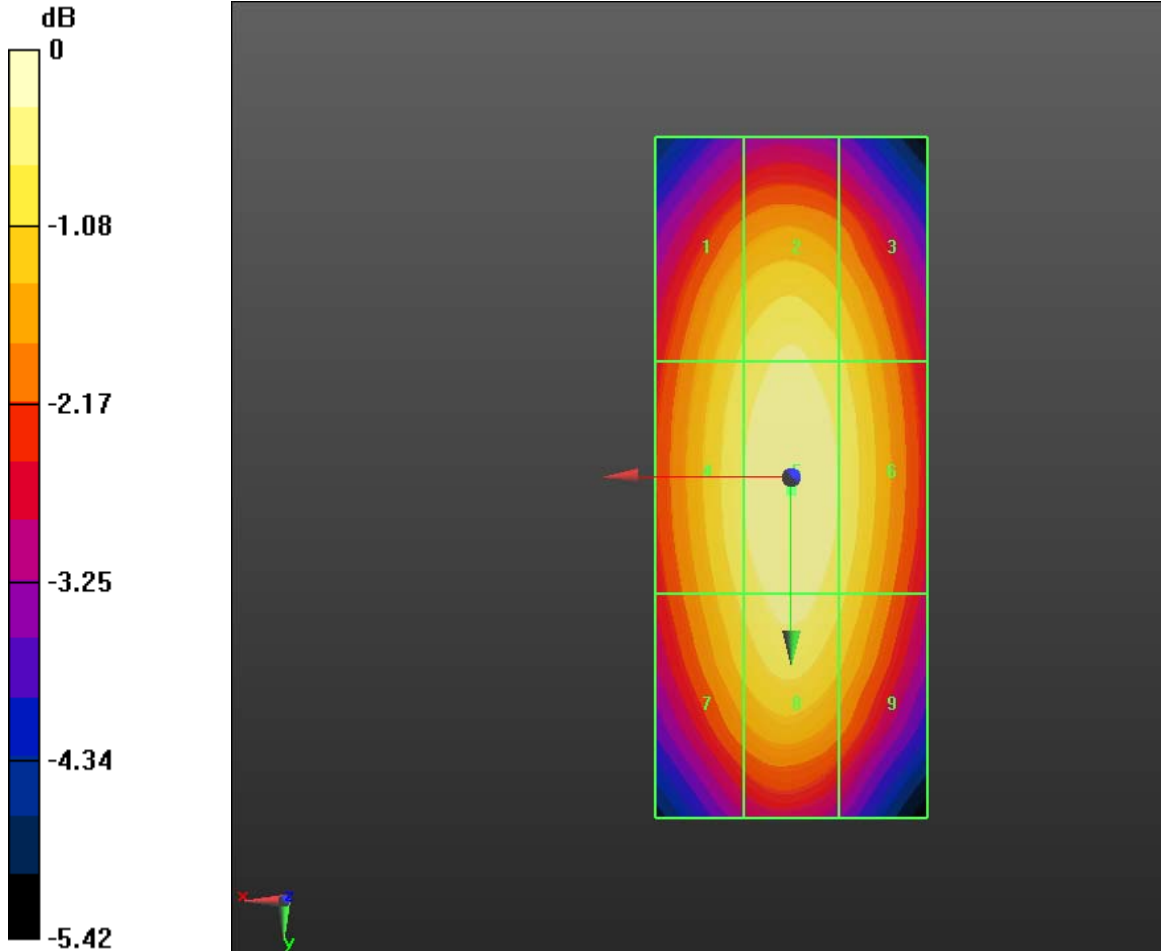
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PMF scaled H-field

Grid 1 <b>M4</b> <b>0.18 A/m</b>	Grid 2 <b>M4</b> <b>0.19 A/m</b>	Grid 3 <b>M4</b> <b>0.18 A/m</b>
Grid 4 <b>M4</b> <b>0.19 A/m</b>	Grid 5 <b>M3</b> <b>0.19 A/m</b>	Grid 6 <b>M4</b> <b>0.19 A/m</b>
Grid 7 <b>M4</b> <b>0.18 A/m</b>	Grid 8 <b>M3</b> <b>0.19 A/m</b>	Grid 9 <b>M4</b> <b>0.18 A/m</b>

**Cursor:**  
 Total = 0.194 A/m  
 H Category: M3  
 Location: 0, 0.5, 4.7 mm





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0 dB = 0.110A/m = -19.17 dB A/m

Date/Time: 2/17/2012 3:56:44 PM

Test Laboratory: RIM Testing Services

### **HAC RF\_H-Field\_PMF\_UMTS1880 MHz\_02\_17\_12**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008**

Communication System: WCDMA FDD II, Communication System: CW, Communication System: AM 80%; Frequency: 1880 MHz

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/8/2011
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

### **Dipole H-Field measurement with H3DV6 probe/H Scan -UMTS**

**1880\_PMF/Hearing Aid Compatibility Test (41x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.16 V/m; Power Drift = 0.06 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.15 A/m

**Near-field category: M4 (AWF 0 dB)**



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PMF scaled H-field

Grid 1 <b>M4</b> <b>0.14 A/m</b>	Grid 2 <b>M4</b> <b>0.14 A/m</b>	Grid 3 <b>M4</b> <b>0.14 A/m</b>
Grid 4 <b>M4</b> <b>0.14 A/m</b>	Grid 5 <b>M4</b> <b>0.15 A/m</b>	Grid 6 <b>M4</b> <b>0.14 A/m</b>
Grid 7 <b>M4</b> <b>0.14 A/m</b>	Grid 8 <b>M4</b> <b>0.15 A/m</b>	Grid 9 <b>M4</b> <b>0.14 A/m</b>

**Cursor:**

Total = 0.150 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan - CW  
 1880\_PMF/Hearing Aid Compatibility Test (41x101x1): Measurement**

grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.16 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.15 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.14 A/m</b>	Grid 2 <b>M4</b> <b>0.14 A/m</b>	Grid 3 <b>M4</b> <b>0.14 A/m</b>
Grid 4 <b>M4</b> <b>0.14 A/m</b>	Grid 5 <b>M4</b> <b>0.15 A/m</b>	Grid 6 <b>M4</b> <b>0.14 A/m</b>
Grid 7 <b>M4</b> <b>0.14 A/m</b>	Grid 8 <b>M4</b> <b>0.15 A/m</b>	Grid 9 <b>M4</b> <b>0.14 A/m</b>



Document

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Author Data

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**Cursor:**

Total = 0.149 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm

**Dipole H-Field measurement with H3DV6 probe/H Scan -  
AM80%\_1880\_PMF/Hearing Aid Compatibility Test (41x101x1):**

Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.10 V/m; Power Drift = -0.07 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.10 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.09 A/m</b>	Grid 2 <b>M4</b> <b>0.09 A/m</b>	Grid 3 <b>M4</b> <b>0.09 A/m</b>
Grid 4 <b>M4</b> <b>0.09 A/m</b>	Grid 5 <b>M4</b> <b>0.10 A/m</b>	Grid 6 <b>M4</b> <b>0.09 A/m</b>
Grid 7 <b>M4</b> <b>0.09 A/m</b>	Grid 8 <b>M4</b> <b>0.09 A/m</b>	Grid 9 <b>M4</b> <b>0.09 A/m</b>

**Cursor:**

Total = 0.096 A/m

H Category: M4

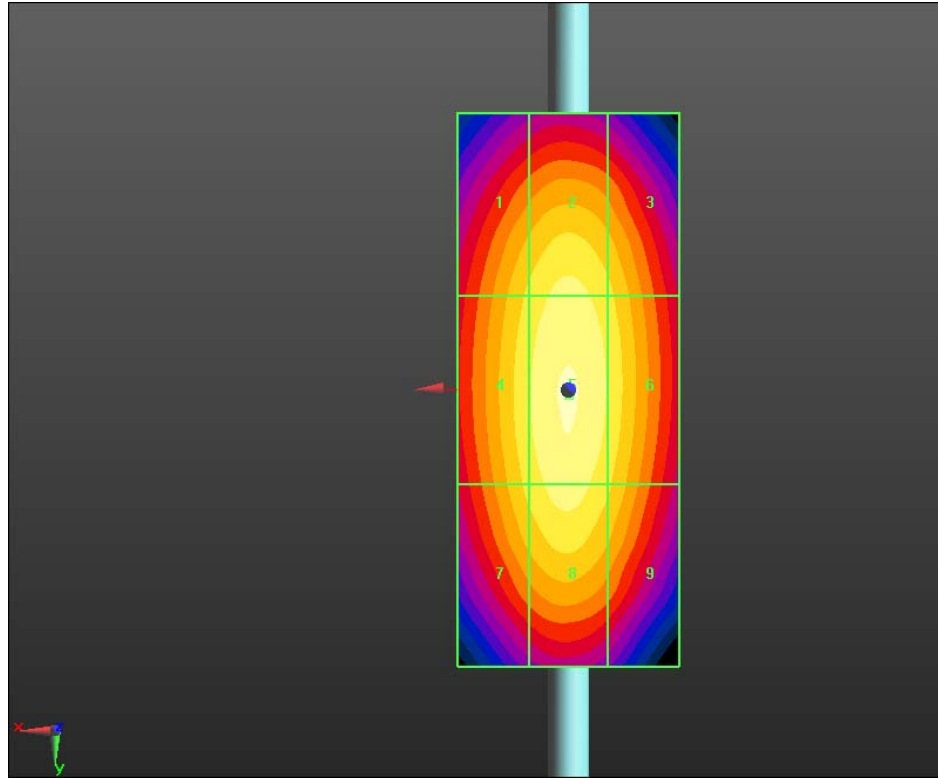
Location: 0, 0, 4.7 mm

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**Daoud Attayi**

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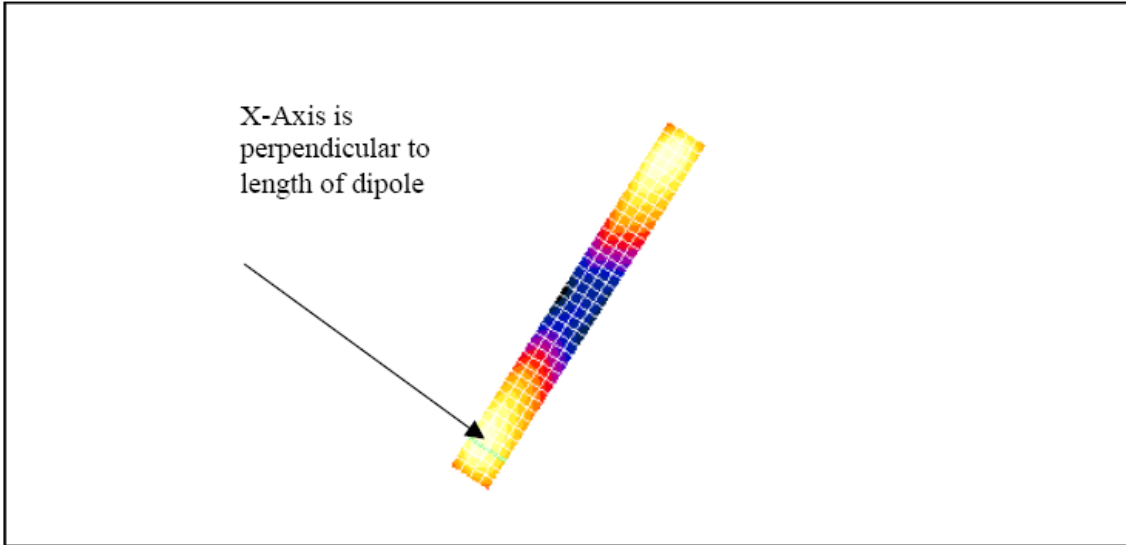
0 dB = 0.150A/m = -16.48 dB A/m

Author Data  
**Daoud Attayi**

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The green line in this figure shows the axis along which the points lie.

#### Comparison of 5mm and 2mm step sizes

An additional set of measurements was taken: dipole validations were performed using 5mm and 2mm step sizes. The delta between the two readings is insignificant for both field types (< 0.4% for E and 0% for H), demonstrating that 5mm is sufficient. The plots follow.



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Date/Time: 14/07/2005 11:35:24 AM

**Lab: RIM Testing Services (RTS)**

**Dipole Validation 1880 MHz\_E-Field 07\_14\_05**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: CW; 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>  
 Phantom section: H Device Section

DASY4 Configuration:  
 - Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004  
 - Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)  
 - Electronics: DAE3 Sn472; Calibrated: 03/01/2005  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA;  
 - Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):**

Measurement grid: dx=5mm, dy=5mm  
 Maximum value of Total (measured) = 134.8 V/m

**E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):**

Measurement grid: dx=5mm, dy=5mm  
 Maximum value of Total field (slot averaged) = 131.0 V/m

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

E in V/m (Time averaged)			E in V/m (Slot averaged)		
Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.2	138.1	138.4	123.2	138.1	138.4
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
80.9	92.3	92.2	80.9	92.3	92.2
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
119.8	131.0	130.7	119.8	131.0	130.7

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Author Data  
**Daoud Attayi**

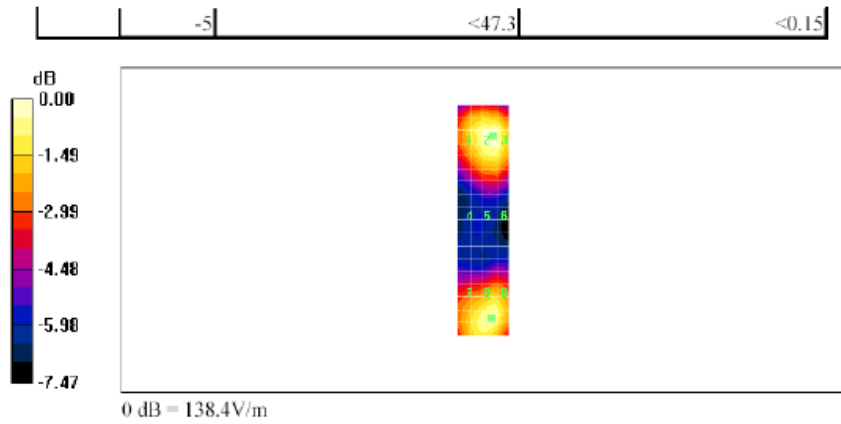
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**Lab: RIM Testing Services (RTS)**

**Dipole Validation 1880 MHz\_2mm step\_E-Field 07\_14\_05**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: CW; 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>  
 Phantom section: H Device Section

DASY4 Configuration:  
 - Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004  
 - Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)  
 - Electronics: DAE3 Sn472; Calibrated: 03/01/2005  
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA;  
 - Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):**

Measurement grid: dx=2mm, dy=2mm  
 Maximum value of Total (measured) = 138.0 V/m

**E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):**

Measurement grid: dx=2mm, dy=2mm  
 Maximum value of Total field (slot averaged) = 131.2 V/m

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

E in V/m (Time averaged)    E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.1	138.6	138.6	123.1	138.6	138.6
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
81.4	92.1	91.6	81.4	92.1	91.6
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
121.3	131.2	131.0	121.3	131.2	131.0

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Author Data  
**Daoud Attayi**

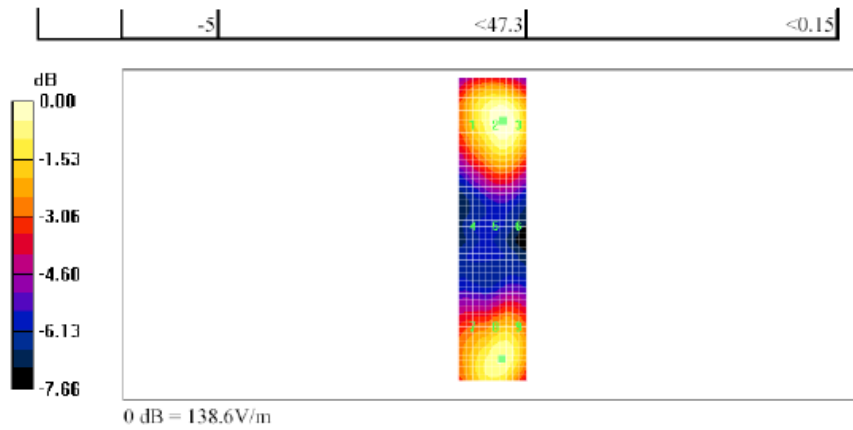
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**Lab: RIM Testing Services (RTS)**

**HAC\_H\_Dipole\_CW 1880\_5 mm step\_07\_14\_05**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: CW; Frequency: 1880 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 section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):**

Measurement grid: dx=5mm, dy=5mm  
 Maximum value of Total (measured) = 0.406 A/m

**H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):**

Measurement grid: dx=5mm, dy=5mm  
 Maximum value of Total field (slot averaged) = 0.406 A/m  
**Hearing Aid Near-Field Category: M2 (AWF 0 dB)**

H in A/m (Time averaged)    H in A/m (Slot averaged)

Grid 1 <b>0.342</b>	Grid 2 <b>0.359</b>	Grid 3 <b>0.344</b>	Grid 1 <b>0.342</b>	Grid 2 <b>0.359</b>	Grid 3 <b>0.344</b>
Grid 4 <b>0.389</b>	Grid 5 <b>0.406</b>	Grid 6 <b>0.389</b>	Grid 4 <b>0.389</b>	Grid 5 <b>0.406</b>	Grid 6 <b>0.389</b>
Grid 7 <b>0.363</b>	Grid 8 <b>0.378</b>	Grid 9 <b>0.363</b>	Grid 7 <b>0.363</b>	Grid 8 <b>0.378</b>	Grid 9 <b>0.363</b>

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19



Author Data  
**Daoud Attayi**

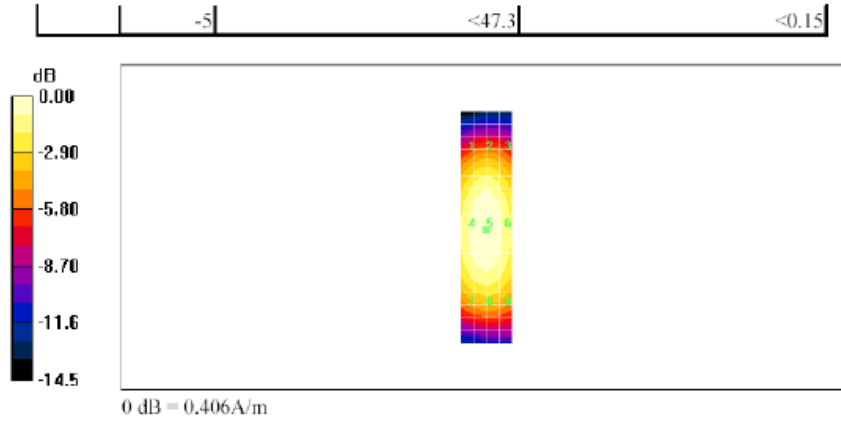
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**Lab: RIM Testing Services (RTS)**

**HAC\_H\_Dipole\_CW 1880\_2 mm step\_07\_14\_05**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: CW; Frequency: 1880 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 section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):**

Measurement grid: dx=2mm, dy=2mm  
 Maximum value of Total (measured) = 0.406 A/m

**H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):**

Measurement grid: dx=2mm, dy=2mm  
 Maximum value of Total field (slot averaged) = 0.406 A/m

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

H in A/m (Time averaged)    H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
<b>0.347</b>	<b>0.361</b>	<b>0.348</b>	<b>0.347</b>	<b>0.361</b>	<b>0.348</b>
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
<b>0.394</b>	<b>0.406</b>	<b>0.391</b>	<b>0.394</b>	<b>0.406</b>	<b>0.391</b>
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
<b>0.367</b>	<b>0.380</b>	<b>0.365</b>	<b>0.367</b>	<b>0.380</b>	<b>0.365</b>

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Author Data  
**Daoud Attayi**

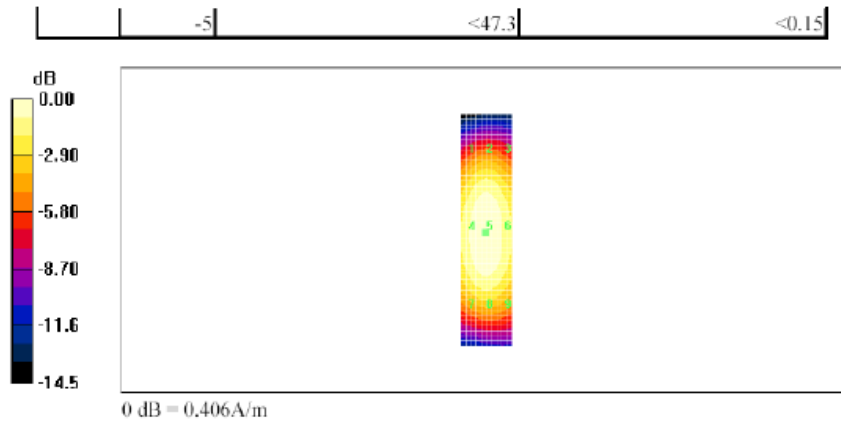
Dates of Test  
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FCC ID  
**L6ARFR100LW**

Date/Time: 14/07/2005 12:53:40 PM


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file://C:\Program%20Files\DASY4\Print\_Templates\HAC\_H\_Dipole\_CW%201880\_2%... 14/07/2005

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### A.3 RF emission field plots

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Date/Time: 3/22/2013 3:15:45 PM

Test Laboratory: RIM Testing Services

## HAC RF\_E-Field\_GSM850

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29**

Communication System: GSM 850; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

### Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device\_Low\_Chan/Hearing Aid Compatibility Test

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 75.81 V/m; Power Drift = -0.03 dB


PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 194.1 V/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>149.1 V/m</b>	Grid 2 <b>M3</b> <b>177.3 V/m</b>	Grid 3 <b>M3</b> <b>177.3 V/m</b>
Grid 4 <b>M3</b> <b>163.3 V/m</b>	Grid 5 <b>M3</b> <b>194.1 V/m</b>	Grid 6 <b>M3</b> <b>194.0 V/m</b>

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Grid 7 <b>M3</b> <b>175.2 V/m</b>	Grid 8 <b>M3</b> <b>195.9 V/m</b>	Grid 9 <b>M3</b> <b>195.6 V/m</b>
--------------------------------------	--------------------------------------	--------------------------------------

**Cursor:**  
Total = 195.9 V/m  
E Category: M3  
Location: -7, 16, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:**  
**15 mm from Probe Center to the Device\_Mid\_Chan/Hearing Aid**  
**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 84.05 V/m; Power Drift = -0.03 dB  
PMR not calibrated. PMF = 3.000 is applied.  
E-field emissions = 222.8 V/m  
**Near-field category: M3 (AWF -5 dB)**

PMF scaled E-field

Grid 1 <b>M3</b> <b>159.3 V/m</b>	Grid 2 <b>M3</b> <b>197.4 V/m</b>	Grid 3 <b>M3</b> <b>197.6 V/m</b>
Grid 4 <b>M3</b> <b>181.1 V/m</b>	Grid 5 <b>M3</b> <b>222.8 V/m</b>	Grid 6 <b>M3</b> <b>222.8 V/m</b>
Grid 7 <b>M3</b> <b>198.7 V/m</b>	Grid 8 <b>M3</b> <b>227.1 V/m</b>	Grid 9 <b>M3</b> <b>227.0 V/m</b>





Author Data  
**Daoud Attayi**

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**Cursor:**

Total = 227.1 V/m

E Category: M3

Location: -8, 16, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:  
 15 mm from Probe Center to the Device\_High\_Chan/Hearing Aid  
 Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 83.08 V/m; Power Drift = 0.08 dB

PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 220.8 V/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled E-field

Grid 1 <b>M3</b> <b>162.3 V/m</b>	Grid 2 <b>M3</b> <b>199.6 V/m</b>	Grid 3 <b>M3</b> <b>199.8 V/m</b>
Grid 4 <b>M3</b> <b>178.2 V/m</b>	Grid 5 <b>M3</b> <b>220.8 V/m</b>	Grid 6 <b>M3</b> <b>220.8 V/m</b>
Grid 7 <b>M3</b> <b>187.8 V/m</b>	Grid 8 <b>M3</b> <b>223.1 V/m</b>	Grid 9 <b>M3</b> <b>223.1 V/m</b>

**Cursor:**

Total = 223.1 V/m

E Category: M3

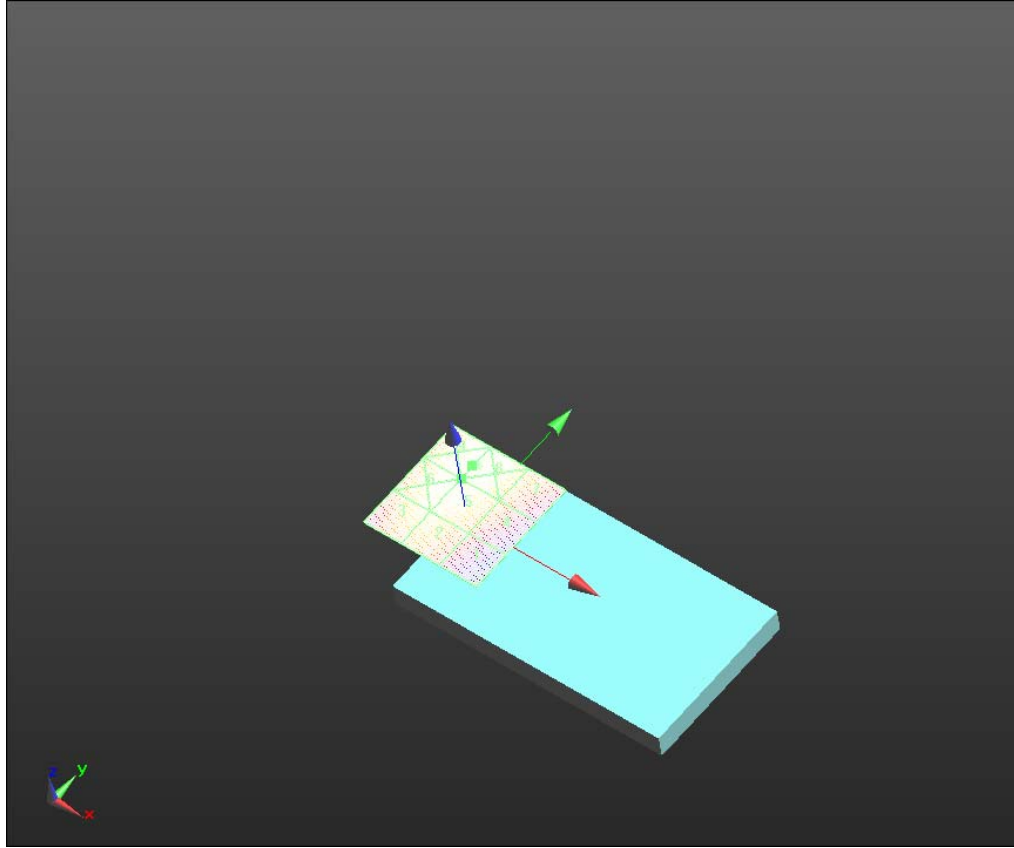
Location: -9, 15, 8.7 mm

Author Data  
**Daoud Attayi**


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0 dB = 188.1 V/m = 45.49 dBV/m

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Date/Time: 3/22/2013 3:28:10 PM

Test Laboratory: RIM Testing Services

## HAC RF\_E-Field\_GSM850\_Telecoil

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29**

Communication System: GSM 850; Frequency: 836.8 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

### Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_telecoil/Hearing Aid Compatibility Test (101x101x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 83.22 V/m; Power Drift = 0.06 dB  
PMR not calibrated. PMF = 3.000 is applied.  
E-field emissions = 191.6 V/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>131.6 V/m</b>	Grid 2 <b>M3</b> <b>156.3 V/m</b>	Grid 3 <b>M3</b> <b>156.2 V/m</b>
Grid 4 <b>M3</b> <b>153.3 V/m</b>	Grid 5 <b>M3</b> <b>191.6 V/m</b>	Grid 6 <b>M3</b> <b>191.6 V/m</b>
Grid 7 <b>M3</b> <b>176.3 V/m</b>	Grid 8 <b>M3</b> <b>220.1 V/m</b>	Grid 9 <b>M3</b> <b>220.1 V/m</b>

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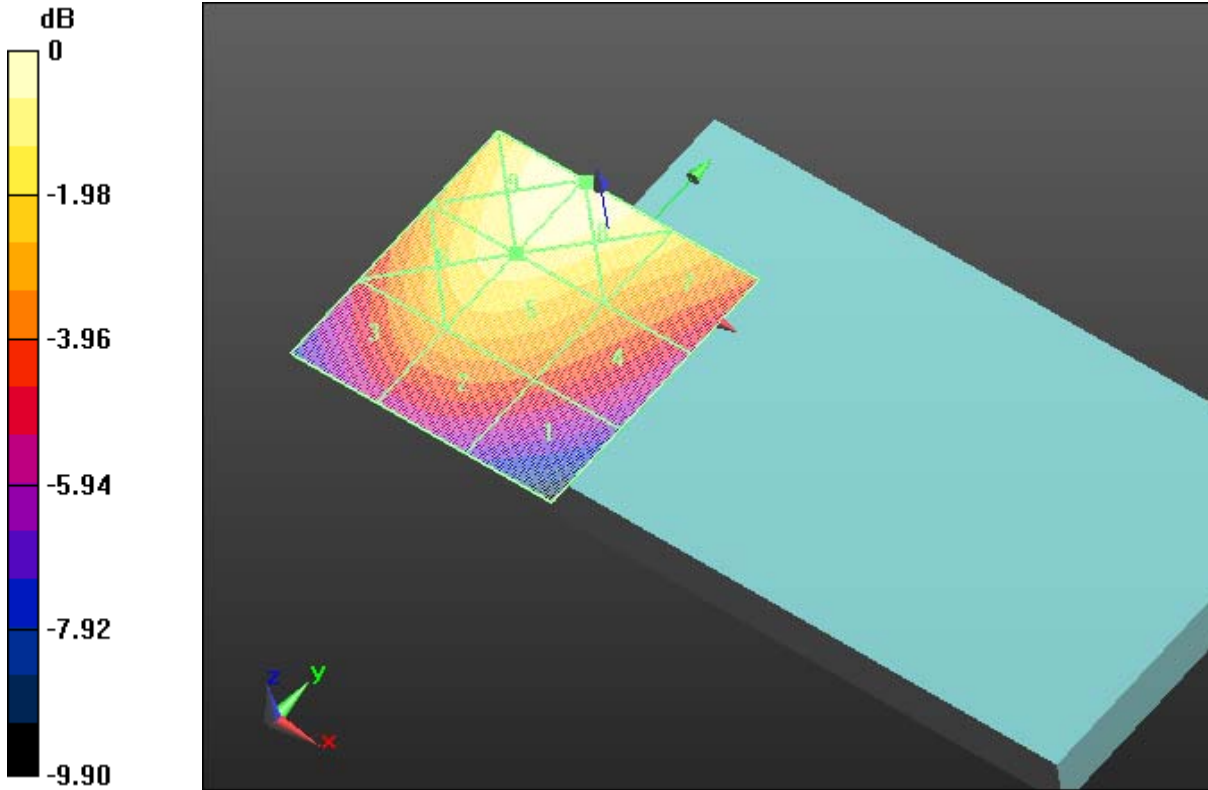
Author Data  
**Daoud Attayi**

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**Cursor:**  
Total = 220.1 V/m  
E Category: M3  
Location: -8, 5, 8.7 mm



0 dB = 211.3 V/m = 46.50 dBV/m

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Date/Time: 3/22/2013 3:44:10 PM

Test Laboratory: RIM Testing Services

**HAC RF\_E-Field\_UMTS\_Band\_V**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz, Frequency: 836.4 MHz, Frequency: 846.6 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)


DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device\_Low\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 72.64 V/m; Power Drift = 0.07 dB  
PMR not calibrated. PMF = 1.070 is applied.  
E-field emissions = 67.52 V/m  
**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>51.25 V/m</b>	Grid 2 <b>M4</b> <b>61.02 V/m</b>	Grid 3 <b>M4</b> <b>61.01 V/m</b>
Grid 4 <b>M4</b> <b>57.57 V/m</b>	Grid 5 <b>M4</b> <b>67.52 V/m</b>	Grid 6 <b>M4</b> <b>67.43 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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<b>62.24 V/m</b>	<b>68.82 V/m</b>	<b>68.46 V/m</b>
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**Cursor:**  
Total = 68.82 V/m  
E Category: M4  
Location: -6.5, 18, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_Mid\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 78.87 V/m; Power Drift = -0.09 dB  
PMR not calibrated. PMF = 1.070 is applied.  
E-field emissions = 73.49 V/m  
**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>53.70 V/m</b>	Grid 2 <b>M4</b> <b>65.78 V/m</b>	Grid 3 <b>M4</b> <b>65.80 V/m</b>
Grid 4 <b>M4</b> <b>60.84 V/m</b>	Grid 5 <b>M4</b> <b>73.49 V/m</b>	Grid 6 <b>M4</b> <b>73.48 V/m</b>
Grid 7 <b>M4</b> <b>66.84 V/m</b>	Grid 8 <b>M4</b> <b>75.40 V/m</b>	Grid 9 <b>M4</b> <b>75.17 V/m</b>

**Cursor:**  
Total = 75.40 V/m  
E Category: M4  
Location: -6.5, 19.5, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_High\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 78.41 V/m; Power Drift = -0.03 dB  
PMR not calibrated. PMF = 1.070 is applied.  
E-field emissions = 73.36 V/m  
**Near-field category: M4 (AWF 0 dB)**

Author Data  
**Daoud Attayi**

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PMF scaled E-field

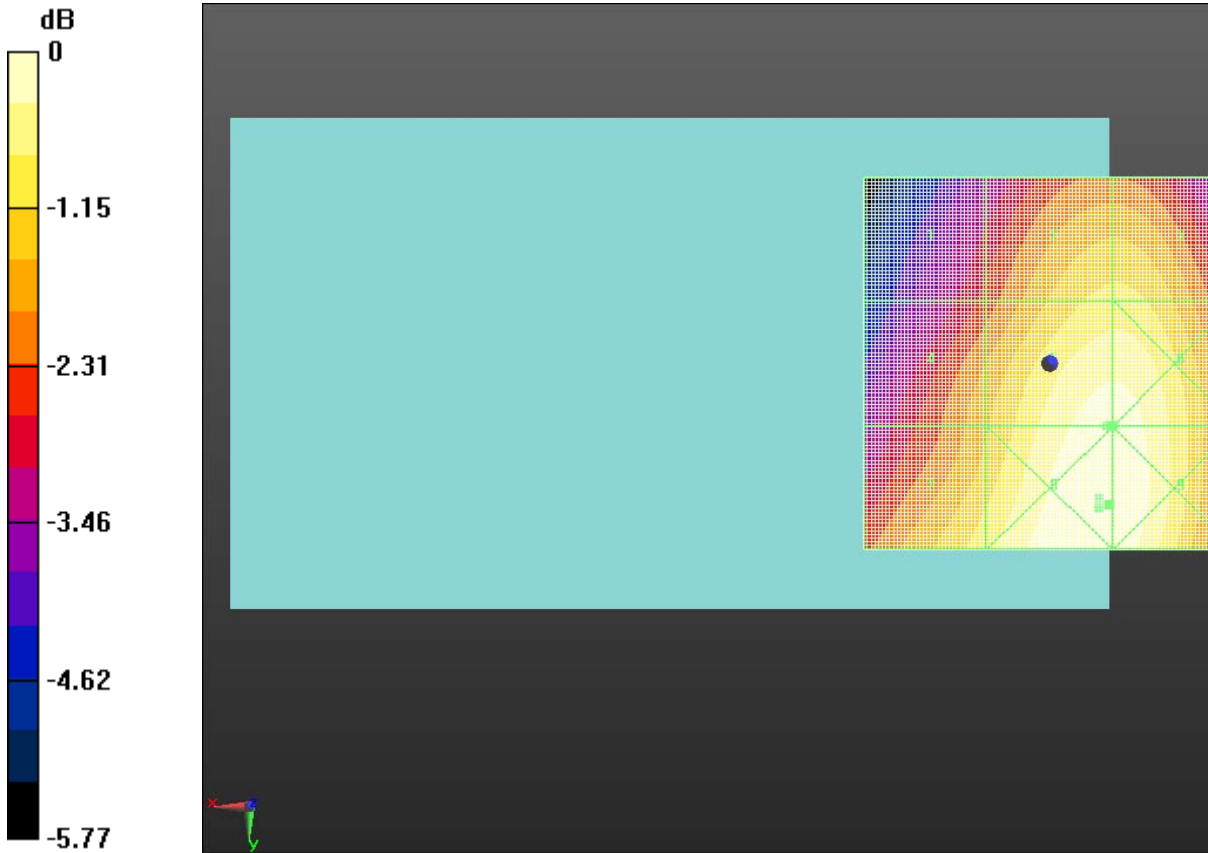
Grid 1 <b>M4</b> <b>55.22 V/m</b>	Grid 2 <b>M4</b> <b>66.59 V/m</b>	Grid 3 <b>M4</b> <b>66.63 V/m</b>
Grid 4 <b>M4</b> <b>61.14 V/m</b>	Grid 5 <b>M4</b> <b>73.36 V/m</b>	Grid 6 <b>M4</b> <b>73.36 V/m</b>
Grid 7 <b>M4</b> <b>65.83 V/m</b>	Grid 8 <b>M4</b> <b>74.52 V/m</b>	Grid 9 <b>M4</b> <b>74.51 V/m</b>

**Cursor:**


Total = 74.52 V/m

E Category: M4

Location: -8, 19, 8.7 mm



0 dB = 68.82 V/m = 36.75 dBV/m

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Date/Time: 3/22/2013 4:02:20 PM

Test Laboratory: RIM Testing Services

**HAC RF\_E-Field\_UMTS\_Band\_V\_Telecoil**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_telecoil/Hearing Aid Compatibility Test (101x101x1):**

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 77.75 V/m; Power Drift = 0.02 dB  
PMR not calibrated. PMF = 1.070 is applied.  
E-field emissions = 63.99 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>44.49 V/m</b>	Grid 2 <b>M4</b> <b>52.28 V/m</b>	Grid 3 <b>M4</b> <b>52.28 V/m</b>
Grid 4 <b>M4</b> <b>51.78 V/m</b>	Grid 5 <b>M4</b> <b>63.99 V/m</b>	Grid 6 <b>M4</b> <b>63.99 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>



Author Data  
**Daoud Attayi**

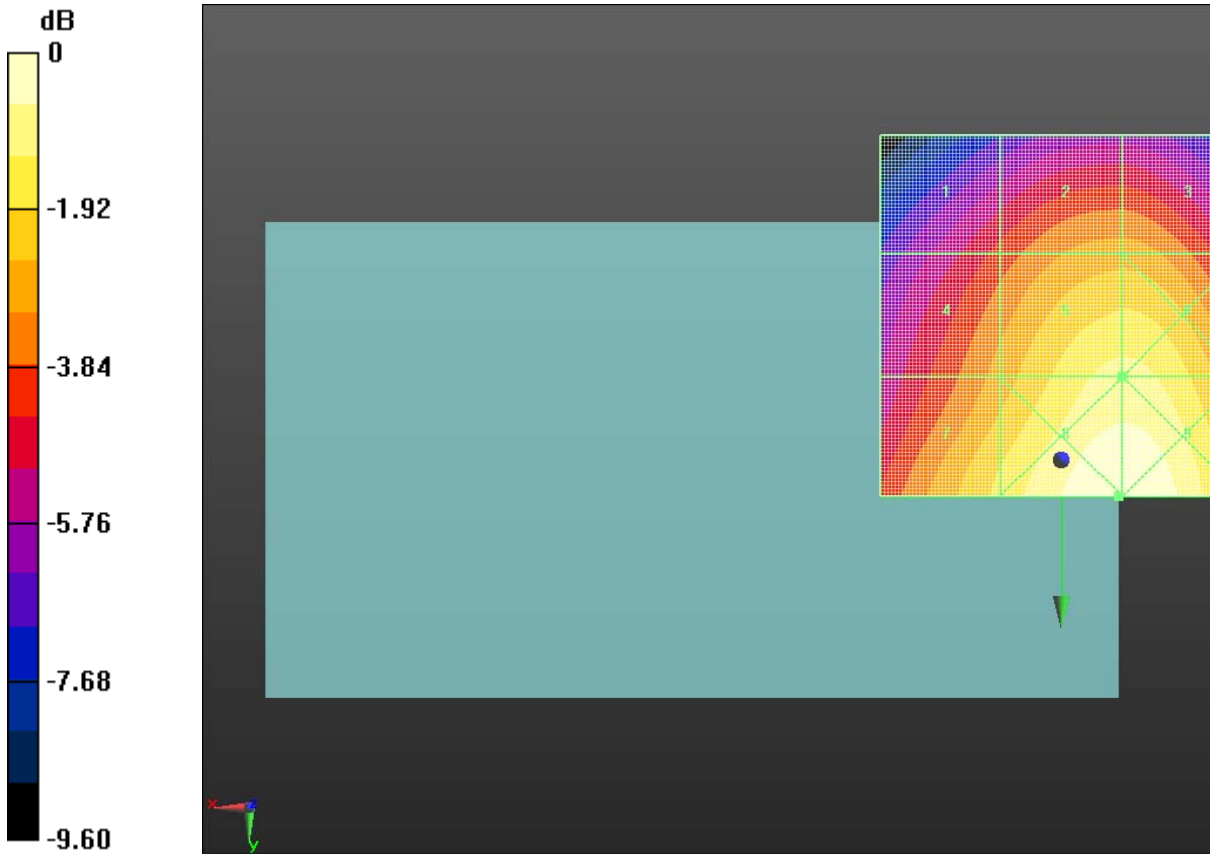
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**L6ARFR100LW**

<b>59.38 V/m</b>	<b>72.39 V/m</b>	<b>72.37 V/m</b>
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**Cursor:**  
 Total = 72.39 V/m  
 E Category: M4  
 Location: -8, 5, 8.7 mm



0 dB = 72.39 V/m = 37.19 dBV/m

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Date/Time: 6/4/2013 9:03:57 AM

Test Laboratory: RIM Testing Services

**HAC RF\_E-Field\_UMTS\_Band\_IV-**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB035D0**

Communication System: UID 0 - n/a, WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:


- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device\_Low\_Chan/Hearing Aid Compatibility Test**

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 13.82 V/m; Power Drift = -0.03 dB  
PMR not calibrated. PMF = 1.030 is applied.  
E-field emissions = 16.49 V/m  
**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>15.96 V/m</b>	Grid 2 <b>M4</b> <b>14.36 V/m</b>	Grid 3 <b>M4</b> <b>11.61 V/m</b>
Grid 4 <b>M4</b> <b>12.75 V/m</b>	Grid 5 <b>M4</b> <b>16.49 V/m</b>	Grid 6 <b>M4</b> <b>16.77 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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<b>15.28 V/m</b>	<b>20.85 V/m</b>	<b>20.85 V/m</b>
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**Cursor:**  
Total = 20.85 V/m  
E Category: M4  
Location: -9, 25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_Mid\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 13.89 V/m; Power Drift = -0.10 dB  
PMR not calibrated. PMF = 1.030 is applied.  
E-field emissions = 16.36 V/m  
**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>15.84 V/m</b>	Grid 2 <b>M4</b> <b>14.40 V/m</b>	Grid 3 <b>M4</b> <b>11.55 V/m</b>
Grid 4 <b>M4</b> <b>12.68 V/m</b>	Grid 5 <b>M4</b> <b>16.36 V/m</b>	Grid 6 <b>M4</b> <b>16.62 V/m</b>
Grid 7 <b>M4</b> <b>15.23 V/m</b>	Grid 8 <b>M4</b> <b>20.82 V/m</b>	Grid 9 <b>M4</b> <b>20.82 V/m</b>

**Cursor:**  
Total = 20.82 V/m  
E Category: M4  
Location: -8, 25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_High\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 13.28 V/m; Power Drift = 0.01 dB  
PMR not calibrated. PMF = 1.030 is applied.  
E-field emissions = 17.20 V/m  
**Near-field category: M4 (AWF 0 dB)**

Author Data  
**Daoud Attayi**

Dates of Test  
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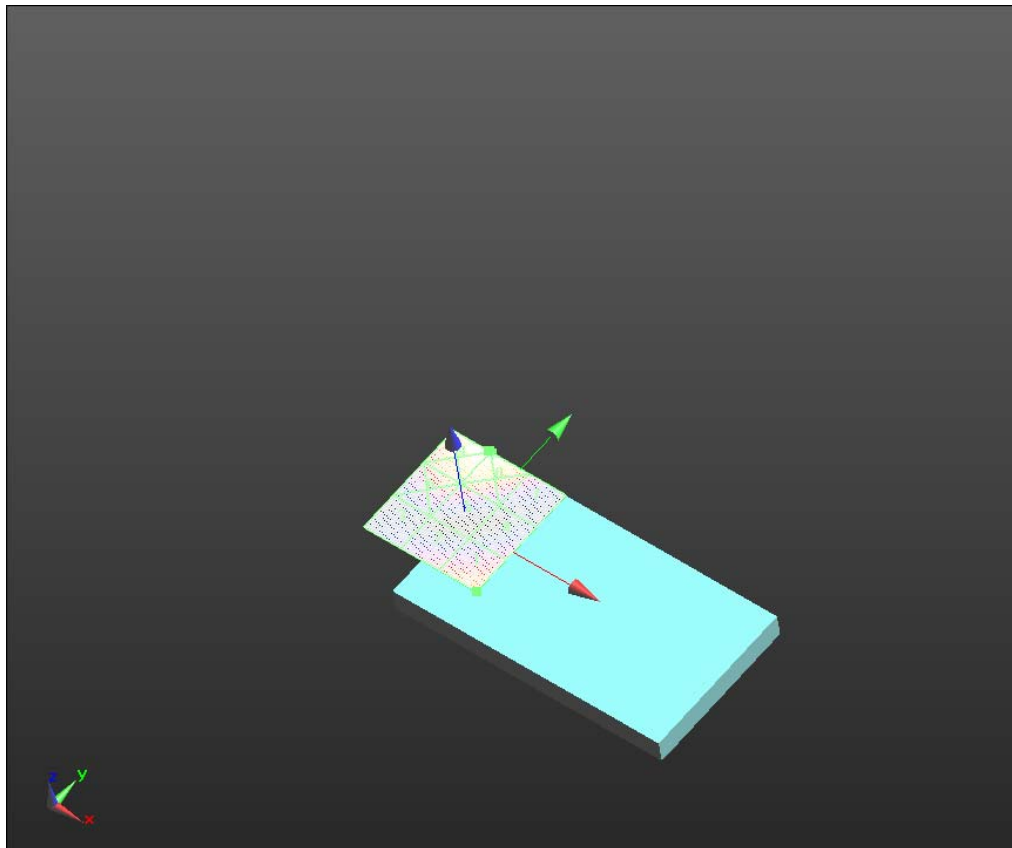
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PMF scaled E-field

Grid 1 <b>M4</b> <b>17.20 V/m</b>	Grid 2 <b>M4</b> <b>15.34 V/m</b>	Grid 3 <b>M4</b> <b>12.48 V/m</b>
Grid 4 <b>M4</b> <b>13.72 V/m</b>	Grid 5 <b>M4</b> <b>16.79 V/m</b>	Grid 6 <b>M4</b> <b>17.28 V/m</b>
Grid 7 <b>M4</b> <b>15.60 V/m</b>	Grid 8 <b>M4</b> <b>22.24 V/m</b>	Grid 9 <b>M4</b> <b>22.27 V/m</b>

**Cursor:**  
 Total = 22.27 V/m  
 E Category: M4  
 Location: -9.5, 25, 8.7 mm



0 dB = 20.85 V/m = 26.38 dBV/m

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Date/Time: 6/4/2013 9:14:58 AM

Test Laboratory: RIM Testing Services

## HAC RF\_E-Field\_UMTS\_Band\_IV-\_Telecoil

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB035D0**

Communication System: UID 0 - n/a, WCDMA FDD IV; Frequency: 1752.6 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_telecoil/Hearing Aid Compatibility Test (101x101x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 13.24 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.030 is applied.

E-field emissions = 16.38 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>18.02 V/m</b>	Grid 2 <b>M4</b> <b>17.43 V/m</b>	Grid 3 <b>M4</b> <b>14.27 V/m</b>
Grid 4 <b>M4</b> <b>17.62 V/m</b>	Grid 5 <b>M4</b> <b>16.38 V/m</b>	Grid 6 <b>M4</b> <b>13.23 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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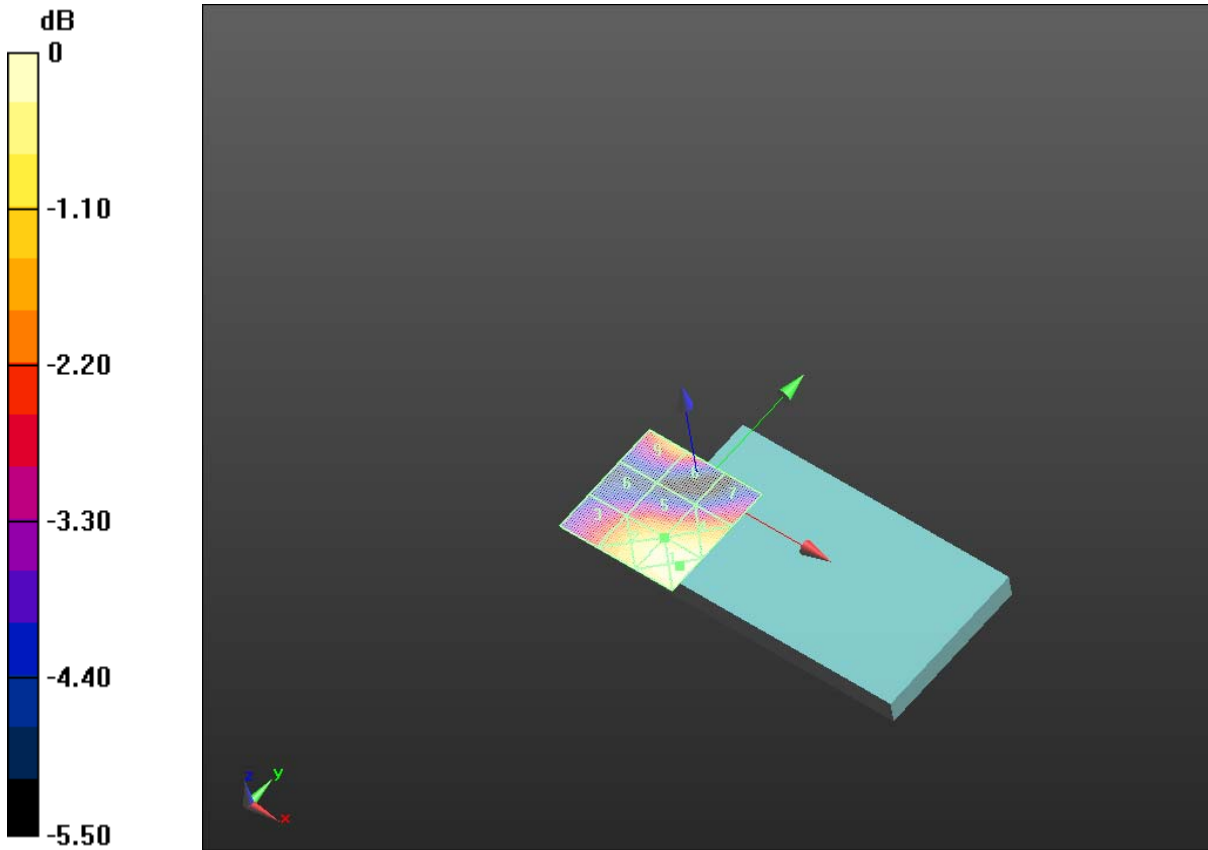
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**RTS-6036-1304-53**


FCC ID  
**L6ARFR100LW**

<b>14.21 V/m</b>	<b>15.26 V/m</b>	<b>15.72 V/m</b>
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**Cursor:**  
 Total = 18.02 V/m  
 E Category: M4  
 Location: 20.5, -35, 8.7 mm



0 dB = 18.02 V/m = 25.12 dBV/m

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Date/Time: 6/3/2013 5:56:09 PM

Test Laboratory: RIM Testing Services

**HAC RF\_E-Field\_GSM1900-Rev 2-05**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2FFFB6AF**

Communication System: UID 0 - n/a, GSM 1900; Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device\_Low\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 12.46 V/m; Power Drift = 0.01 dB  
PMR not calibrated. PMF = 2.850 is applied.  
E-field emissions = 57.93 V/m  
**Near-field category: M3 (AWF -5 dB)**

PMF scaled E-field

Grid 1 <b>M3</b> <b>57.93 V/m</b>	Grid 2 <b>M3</b> <b>57.17 V/m</b>	Grid 3 <b>M4</b> <b>43.51 V/m</b>
Grid 4 <b>M4</b> <b>43.62 V/m</b>	Grid 5 <b>M3</b> <b>53.91 V/m</b>	Grid 6 <b>M3</b> <b>56.97 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M3</b>	Grid 9 <b>M3</b>

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**L6ARFR100LW**

<b>43.82 V/m</b>	<b>72.77 V/m</b>	<b>73.32 V/m</b>
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**Cursor:**

Total = 73.32 V/m  
 E Category: M3  
 Location: -10.5, 25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:  
 15 mm from Probe Center to the Device\_Mid\_Chan/Hearing Aid  
 Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 13.02 V/m; Power Drift = -0.02 dB  
 PMR not calibrated. PMF = 2.850 is applied.  
 E-field emissions = 56.98 V/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled E-field

Grid 1 <b>M3</b> <b>56.98 V/m</b>	Grid 2 <b>M3</b> <b>56.63 V/m</b>	Grid 3 <b>M4</b> <b>45.21 V/m</b>
Grid 4 <b>M4</b> <b>42.66 V/m</b>	Grid 5 <b>M3</b> <b>52.30 V/m</b>	Grid 6 <b>M3</b> <b>55.17 V/m</b>
Grid 7 <b>M4</b> <b>41.96 V/m</b>	Grid 8 <b>M3</b> <b>69.35 V/m</b>	Grid 9 <b>M3</b> <b>69.68 V/m</b>

**Cursor:**

Total = 69.68 V/m  
 E Category: M3  
 Location: -10, 25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:  
 15 mm from Probe Center to the Device\_High\_Chan/Hearing Aid  
 Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 12.61 V/m; Power Drift = -0.17 dB  
 PMR not calibrated. PMF = 2.850 is applied.  
 E-field emissions = 61.05 V/m

**Near-field category: M3 (AWF -5 dB)**



Author Data  
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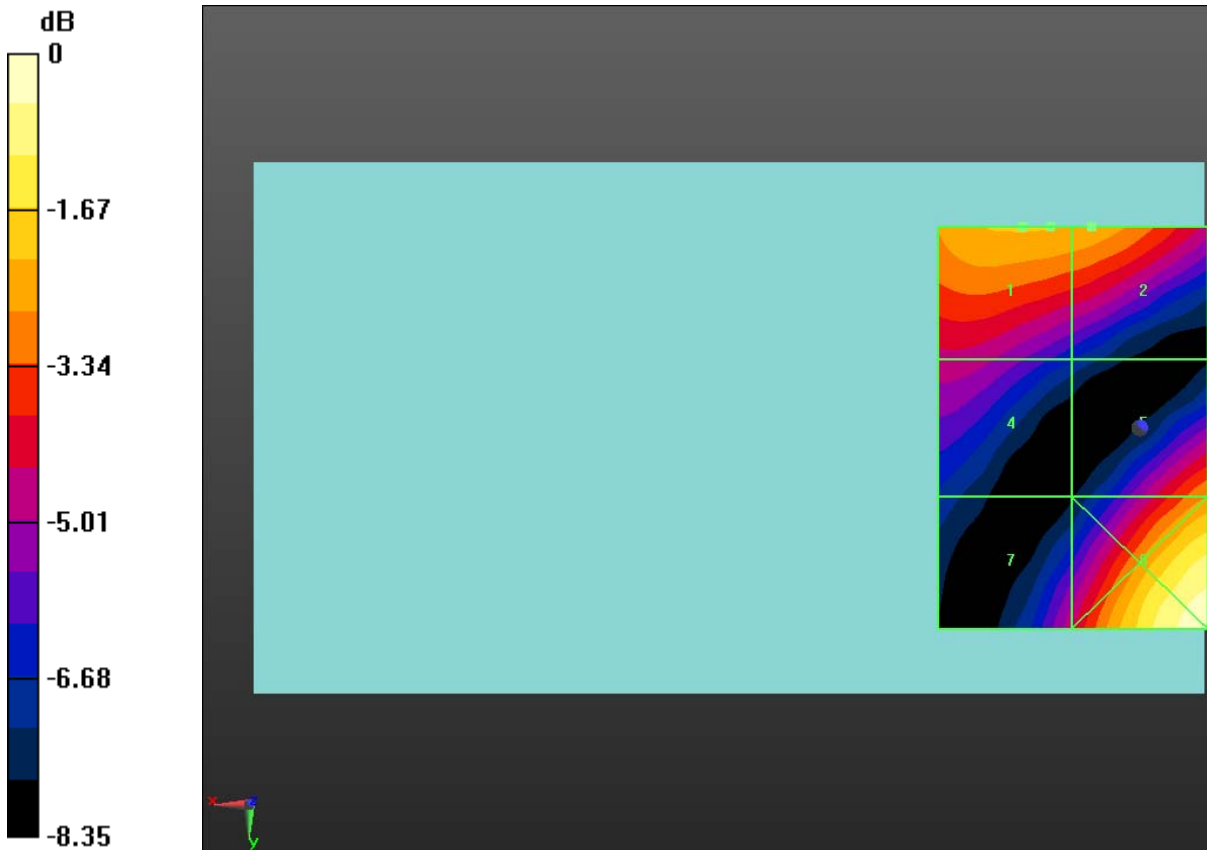
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PMF scaled E-field

Grid 1 <b>M3</b> <b>60.83 V/m</b>	Grid 2 <b>M3</b> <b>61.05 V/m</b>	Grid 3 <b>M3</b> <b>52.29 V/m</b>
Grid 4 <b>M4</b> <b>45.97 V/m</b>	Grid 5 <b>M3</b> <b>51.96 V/m</b>	Grid 6 <b>M3</b> <b>55.69 V/m</b>
Grid 7 <b>M4</b> <b>39.24 V/m</b>	Grid 8 <b>M3</b> <b>72.73 V/m</b>	Grid 9 <b>M3</b> <b>73.52 V/m</b>

**Cursor:**  
 Total = 73.52 V/m  
 E Category: M3  
 Location: -11, 25, 8.7 mm



0 dB = 74.12 V/m = 37.40 dBV/m

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Date/Time: 6/3/2013 6:08:17 PM

Test Laboratory: RIM Testing Services

## HAC RF\_E-Field\_GSM1900-Rev 2-05

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2FFFB6AF**

Communication System: UID 0 - n/a, GSM 1900; Frequency: 1850.2 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_telecoil/Hearing Aid Compatibility Test (101x101x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 12.57 V/m; Power Drift = -0.31 dB  
PMR not calibrated. PMF = 2.850 is applied.  
E-field emissions = 62.98 V/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled E-field

Grid 1 <b>M3</b> <b>62.98 V/m</b>	Grid 2 <b>M3</b> <b>62.47 V/m</b>	Grid 3 <b>M3</b> <b>47.76 V/m</b>
Grid 4 <b>M3</b> <b>61.71 V/m</b>	Grid 5 <b>M3</b> <b>61.32 V/m</b>	Grid 6 <b>M4</b> <b>45.03 V/m</b>
Grid 7 <b>M3</b>	Grid 8 <b>M4</b>	Grid 9 <b>M3</b>

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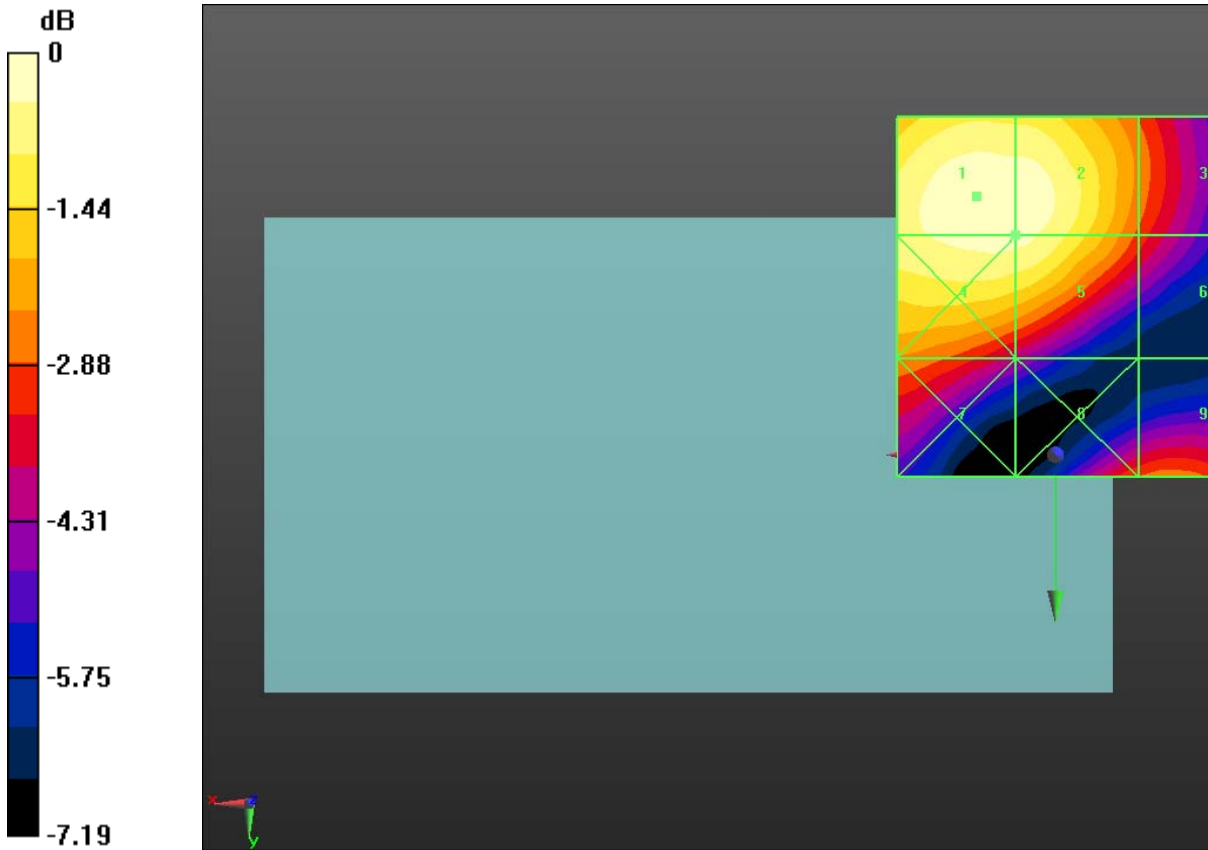
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**L6ARFR100LW**

<b>48.19 V/m</b>	<b>45.89 V/m</b>	<b>47.37 V/m</b>
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**Cursor:**  
 Total = 62.98 V/m  
 E Category: M3  
 Location: 11, -36, 8.7 mm



0 dB = 63.67 V/m = 36.08 dBV/m

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Date/Time: 3/22/2013 4:17:46 PM

Test Laboratory: RIM Testing Services

**HAC RF\_E-Field\_UMTS\_Band\_II**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29**

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz, Frequency: 1880 MHz, Frequency: 1907.6 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device\_Low\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 22.94 V/m; Power Drift = 0.06 dB  
PMR not calibrated. PMF = 1.000 is applied.  
E-field emissions = 35.99 V/m  
**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>34.11 V/m</b>	Grid 2 <b>M4</b> <b>34.40 V/m</b>	Grid 3 <b>M4</b> <b>30.98 V/m</b>
Grid 4 <b>M4</b> <b>23.65 V/m</b>	Grid 5 <b>M4</b> <b>35.99 V/m</b>	Grid 6 <b>M4</b> <b>38.49 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>



Author Data  
**Daoud Attayi**

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**L6ARFR100LW**

<b>27.94 V/m</b>	<b>48.61 V/m</b>	<b>49.13 V/m</b>
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**Cursor:**

Total = 49.12 V/m  
 E Category: M4  
 Location: -11, 24.5, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:  
 15 mm from Probe Center to the Device\_Mid\_Chan/Hearing Aid**

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 24.24 V/m; Power Drift = -0.04 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 E-field emissions = 32.50 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>31.25 V/m</b>	Grid 2 <b>M4</b> <b>32.50 V/m</b>	Grid 3 <b>M4</b> <b>30.83 V/m</b>
Grid 4 <b>M4</b> <b>21.44 V/m</b>	Grid 5 <b>M4</b> <b>32.32 V/m</b>	Grid 6 <b>M4</b> <b>35.14 V/m</b>
Grid 7 <b>M4</b> <b>24.28 V/m</b>	Grid 8 <b>M4</b> <b>43.21 V/m</b>	Grid 9 <b>M4</b> <b>44.02 V/m</b>

**Cursor:**

Total = 44.02 V/m  
 E Category: M4  
 Location: -11.5, 25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:  
 15 mm from Probe Center to the Device\_High\_Chan/Hearing Aid**

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 25.41 V/m; Power Drift = 0.04 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 E-field emissions = 33.47 V/m

**Near-field category: M4 (AWF 0 dB)**

Author Data  
**Daoud Attayi**

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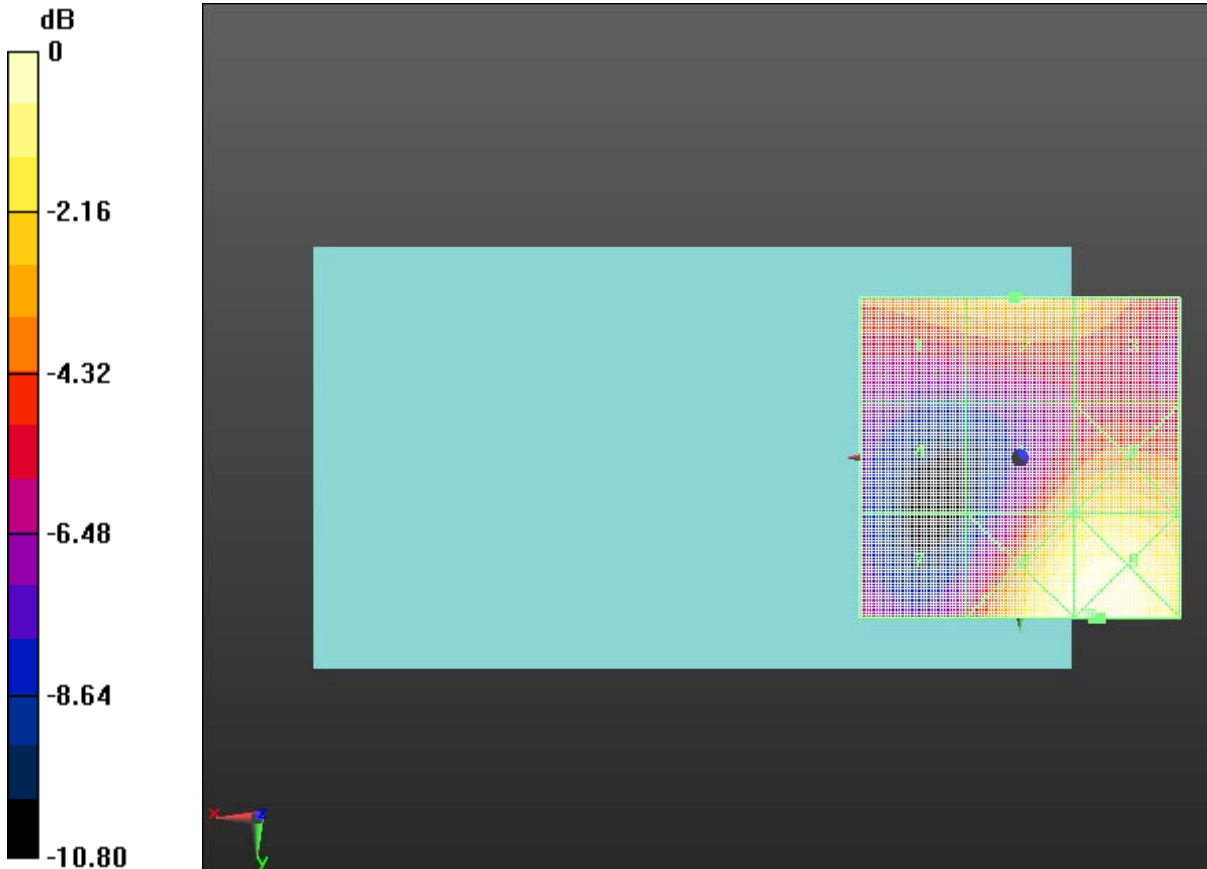
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PMF scaled E-field

Grid 1 <b>M4</b> <b>32.36 V/m</b>	Grid 2 <b>M4</b> <b>33.47 V/m</b>	Grid 3 <b>M4</b> <b>32.17 V/m</b>
Grid 4 <b>M4</b> <b>22.35 V/m</b>	Grid 5 <b>M4</b> <b>32.96 V/m</b>	Grid 6 <b>M4</b> <b>35.49 V/m</b>
Grid 7 <b>M4</b> <b>24.87 V/m</b>	Grid 8 <b>M4</b> <b>42.47 V/m</b>	Grid 9 <b>M4</b> <b>43.42 V/m</b>

**Cursor:**  
 Total = 43.42 V/m  
 E Category: M4  
 Location: -12.5, 25, 8.7 mm



0 dB = 49.12 V/m = 33.83 dBV/m

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Date/Time: 3/22/2013 4:37:58 PM

Test Laboratory: RIM Testing Services

## HAC RF\_E-Field\_UMTS\_Band\_II\_Telecoil

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2AB04D29**

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/11/2013;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

### Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_telecoil/Hearing Aid Compatibility Test (101x101x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 23.09 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 37.35 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>39.50 V/m</b>	Grid 2 <b>M4</b> <b>39.99 V/m</b>	Grid 3 <b>M4</b> <b>35.82 V/m</b>
Grid 4 <b>M4</b> <b>37.03 V/m</b>	Grid 5 <b>M4</b> <b>37.35 V/m</b>	Grid 6 <b>M4</b> <b>33.38 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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**L6ARFR100LW**

**25.00 V/m**

**31.95 V/m**

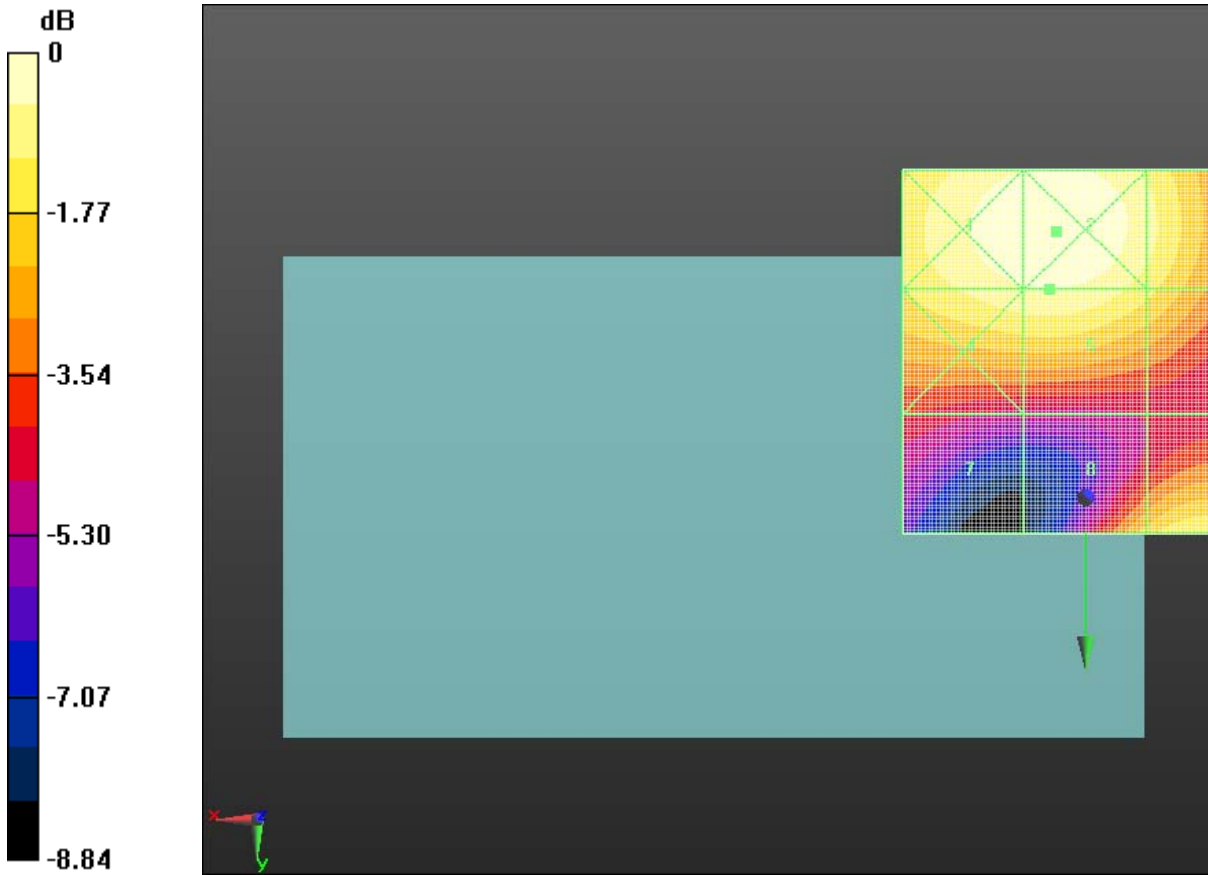
**35.14 V/m**

**Cursor:**

Total = 39.99 V/m


E Category: M4

Location: 4, -36.5, 8.7 mm



0 dB = 39.99 V/m = 32.04 dBV/m



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Date/Time: 3/22/2013 5:41:34 PM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_GSM\_850

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB04D29**

Communication System: GSM 850; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

### Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_low\_chan/Hearing Aid Compatibility Test

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.1610 A/m; Power Drift = 0.05 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.4894 A/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.455 A/m</b>	Grid 2 <b>M4</b> <b>0.367 A/m</b>	Grid 3 <b>M4</b> <b>0.334 A/m</b>
Grid 4 <b>M3</b> <b>0.473 A/m</b>	Grid 5 <b>M3</b> <b>0.489 A/m</b>	Grid 6 <b>M3</b> <b>0.464 A/m</b>
Grid 7 <b>M3</b>	Grid 8 <b>M3</b>	Grid 9 <b>M3</b>

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<b>0.627 A/m</b>	<b>0.654 A/m</b>	<b>0.592 A/m</b>
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**Cursor:**

Total = 0.6540 A/m  
 H Category: M3  
 Location: 1, 25, 8.7 mm


**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_mid\_chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.1670 A/m; Power Drift = -0.03 dB  
 PMR not calibrated. PMF = 2.890 is applied.  
 H-field emissions = 0.4962 A/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.491 A/m</b>	Grid 2 <b>M4</b> <b>0.394 A/m</b>	Grid 3 <b>M4</b> <b>0.346 A/m</b>
Grid 4 <b>M3</b> <b>0.488 A/m</b>	Grid 5 <b>M3</b> <b>0.496 A/m</b>	Grid 6 <b>M3</b> <b>0.464 A/m</b>
Grid 7 <b>M3</b> <b>0.639 A/m</b>	Grid 8 <b>M3</b> <b>0.653 A/m</b>	Grid 9 <b>M3</b> <b>0.585 A/m</b>

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**Cursor:**  
Total = 0.6529 A/m  
H Category: M3  
Location: 1.5, 25, 8.7 mm

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_high\_chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.1670 A/m; Power Drift = 0.02 dB  
PMR not calibrated. PMF = 2.890 is applied.  
H-field emissions = 0.5164 A/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.490 A/m</b>	Grid 2 <b>M4</b> <b>0.398 A/m</b>	Grid 3 <b>M4</b> <b>0.347 A/m</b>
Grid 4 <b>M3</b> <b>0.510 A/m</b>	Grid 5 <b>M3</b> <b>0.516 A/m</b>	Grid 6 <b>M3</b> <b>0.475 A/m</b>
Grid 7 <b>M3</b> <b>0.670 A/m</b>	Grid 8 <b>M3</b> <b>0.678 A/m</b>	Grid 9 <b>M3</b> <b>0.604 A/m</b>

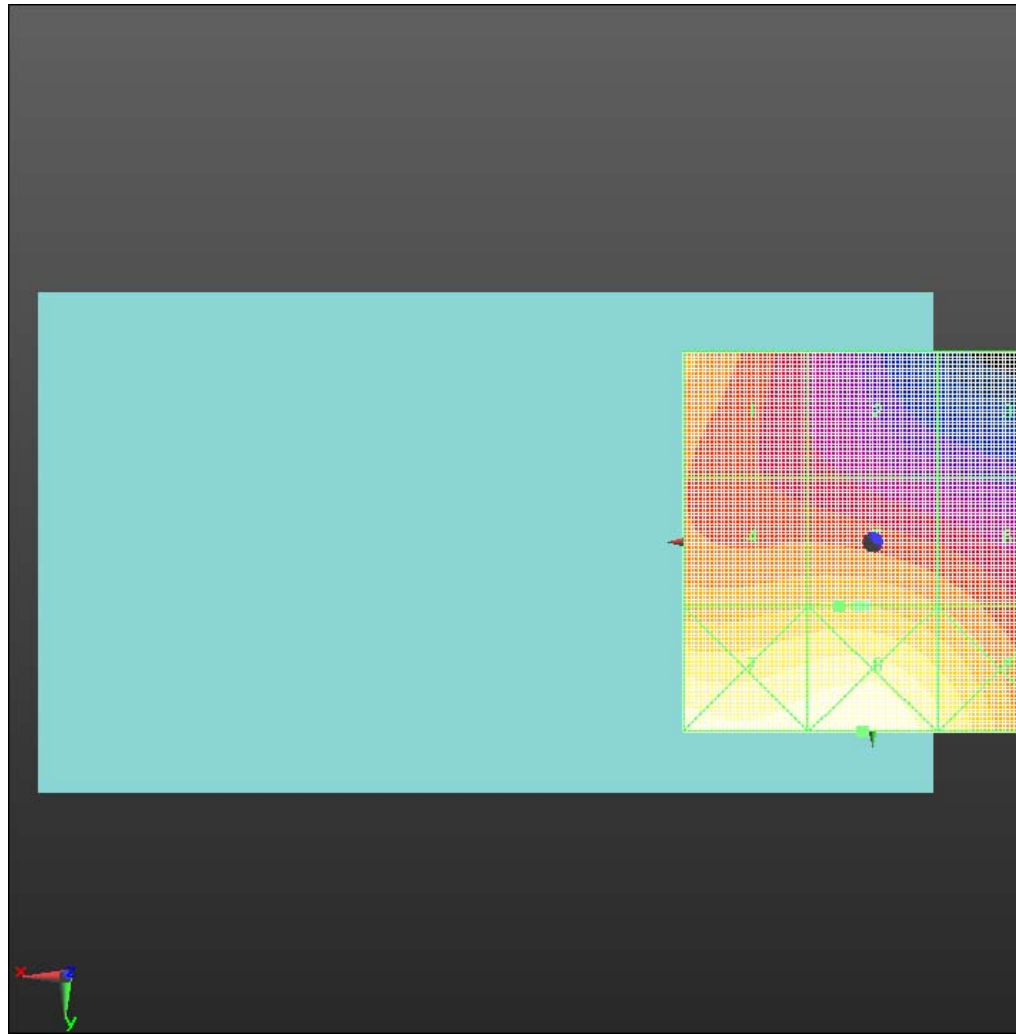
**Cursor:**  
Total = 0.6784 A/m  
H Category: M3  
Location: 1.5, 25, 8.7 mm

Author Data  
**Daoud Attayi**


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0 dB = 0.6520 A/m = -3.72 dBA/m

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Date/Time: 3/22/2013 5:53:04 PM

Test Laboratory: RIM Testing Services

## HAC RF\_H-Field\_GSM\_850\_Telecoil

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB04D29**

Communication System: GSM 850; Frequency: 848.8 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

### Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_telecoil/Hearing Aid Compatibility Test

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.1670 A/m; Power Drift = 0.03 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.4964 A/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.496 A/m</b>	Grid 2 <b>M4</b> <b>0.376 A/m</b>	Grid 3 <b>M4</b> <b>0.254 A/m</b>
Grid 4 <b>M3</b> <b>0.494 A/m</b>	Grid 5 <b>M4</b> <b>0.386 A/m</b>	Grid 6 <b>M4</b> <b>0.327 A/m</b>
Grid 7 <b>M3</b>	Grid 8 <b>M3</b>	Grid 9 <b>M4</b>

Author Data  
**Daoud Attayi**

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**0.477 A/m**

**0.478 A/m**

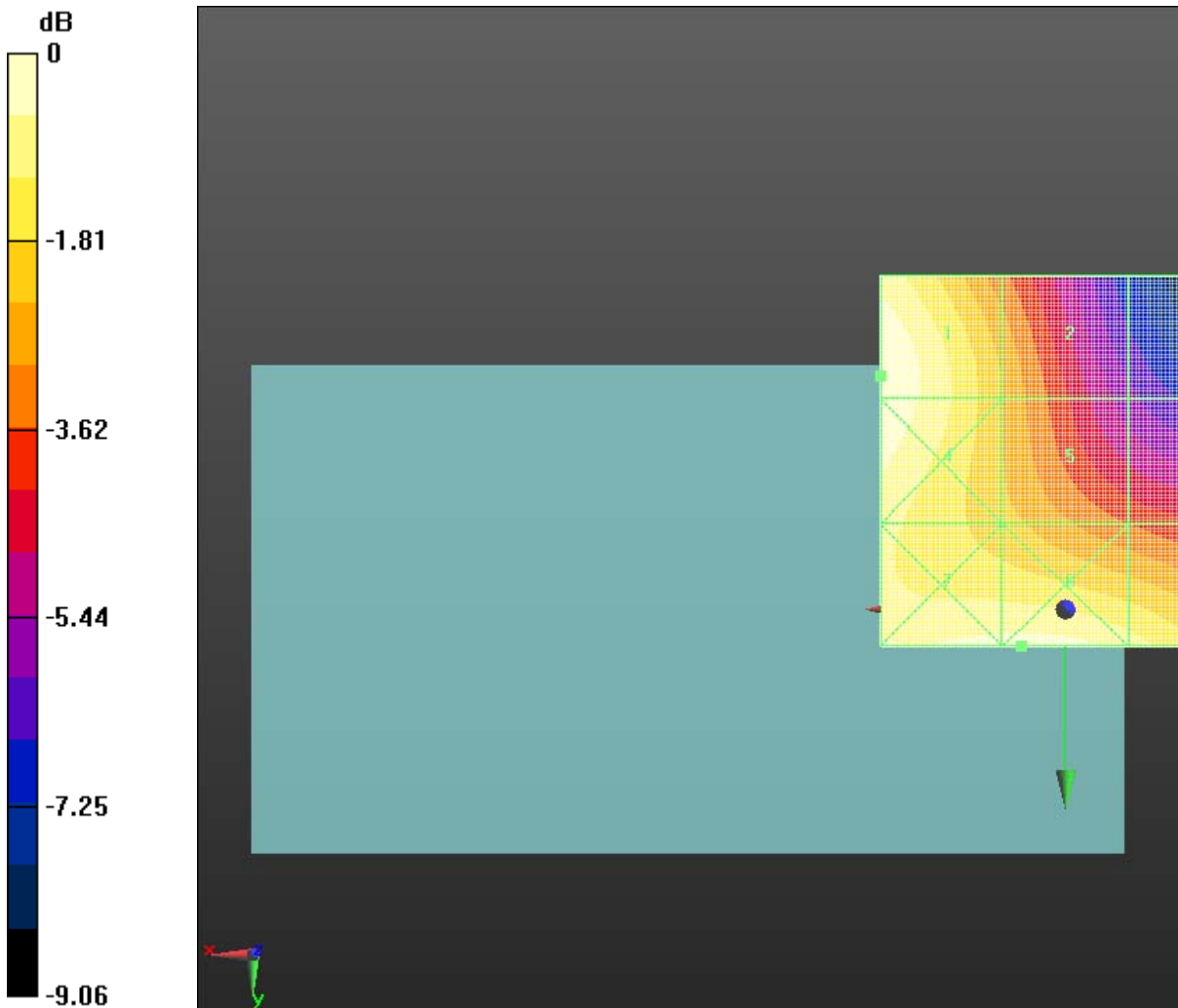
**0.447 A/m**

**Cursor:**


Total = 0.4964 A/m

H Category: M3

Location: 25, -31.5, 8.7 mm



0 dB = 0.4949 A/m = -6.11 dBA/m

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Date/Time: 3/22/2013 6:04:45 PM

Test Laboratory: RIM Testing Services

## HAC RF\_H-Field\_UMTS\_Band\_V

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB04D29**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz, Frequency: 836.4 MHz, Frequency: 846.6 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

### Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_low\_chan/Hearing Aid Compatibility Test

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.1540 A/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.090 is applied.

H-field emissions = 0.1770 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.166 A/m</b>	Grid 2 <b>M4</b> <b>0.136 A/m</b>	Grid 3 <b>M4</b> <b>0.124 A/m</b>
Grid 4 <b>M4</b> <b>0.174 A/m</b>	Grid 5 <b>M4</b> <b>0.177 A/m</b>	Grid 6 <b>M4</b> <b>0.169 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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**L6ARFR100LW**

<b>0.228 A/m</b>	<b>0.229 A/m</b>	<b>0.209 A/m</b>
------------------	------------------	------------------

**Cursor:**

Total = 0.2293 A/m  
 H Category: M4  
 Location: 2.5, 25, 8.7 mm

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_mid\_chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.1560 A/m; Power Drift = 0.04 dB  
 PMR not calibrated. PMF = 1.090 is applied.  
 H-field emissions = 0.1792 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.176 A/m</b>	Grid 2 <b>M4</b> <b>0.141 A/m</b>	Grid 3 <b>M4</b> <b>0.124 A/m</b>
Grid 4 <b>M4</b> <b>0.179 A/m</b>	Grid 5 <b>M4</b> <b>0.171 A/m</b>	Grid 6 <b>M4</b> <b>0.160 A/m</b>
Grid 7 <b>M4</b> <b>0.248 A/m</b>	Grid 8 <b>M4</b> <b>0.216 A/m</b>	Grid 9 <b>M4</b> <b>0.184 A/m</b>





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**Cursor:**

Total = 0.2479 A/m  
 H Category: M4  
 Location: 25, 25, 8.7 mm

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_high\_chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.1540 A/m; Power Drift = 0.02 dB  
 PMR not calibrated. PMF = 1.090 is applied.  
 H-field emissions = 0.1864 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.186 A/m</b>	Grid 2 <b>M4</b> <b>0.145 A/m</b>	Grid 3 <b>M4</b> <b>0.123 A/m</b>
Grid 4 <b>M4</b> <b>0.186 A/m</b>	Grid 5 <b>M4</b> <b>0.170 A/m</b>	Grid 6 <b>M4</b> <b>0.159 A/m</b>
Grid 7 <b>M4</b> <b>0.255 A/m</b>	Grid 8 <b>M4</b> <b>0.217 A/m</b>	Grid 9 <b>M4</b> <b>0.182 A/m</b>

**Cursor:**

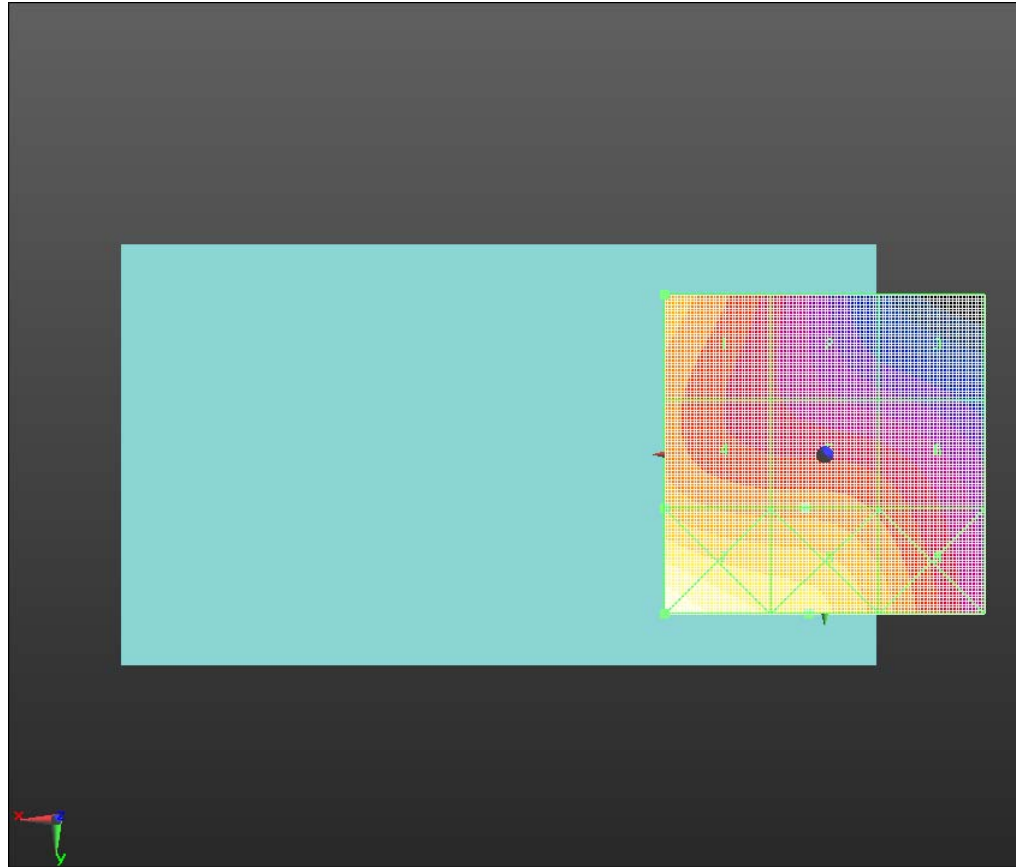
Total = 0.2546 A/m  
 H Category: M4  
 Location: 25, 25, 8.7 mm

Author Data  
**Daoud Attayi**


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0 dB = 0.2293 A/m = -12.79 dBA/m

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Date/Time: 3/22/2013 6:19:47 PM

Test Laboratory: RIM Testing Services

## HAC RF\_H-Field\_UMTS\_Band\_V\_Telecoil

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB04D29**

Communication System: WCDMA FDD V; Frequency: 846.6 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

### Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_telecoil/Hearing Aid Compatibility Test

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.1540 A/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 1.090 is applied.

H-field emissions = 0.1894 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.189 A/m</b>	Grid 2 <b>M4</b> <b>0.146 A/m</b>	Grid 3 <b>M4</b> <b>0.095 A/m</b>
Grid 4 <b>M4</b> <b>0.188 A/m</b>	Grid 5 <b>M4</b> <b>0.146 A/m</b>	Grid 6 <b>M4</b> <b>0.116 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

Author Data  
**Daoud Attayi**

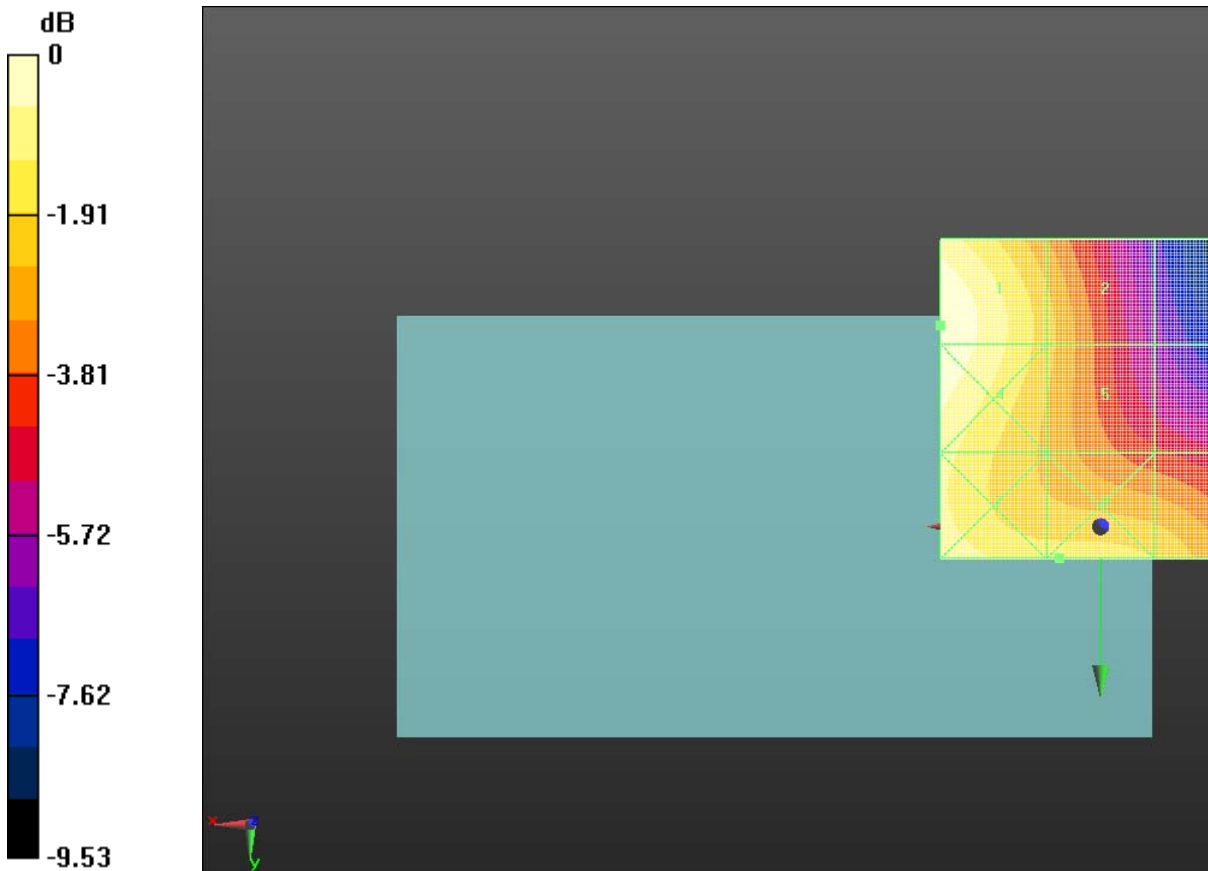
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**L6ARFR100LW**

**0.176 A/m    0.159 A/m    0.152 A/m**

**Cursor:**  
 Total = 0.1894 A/m  
 H Category: M4  
 Location: 25, -31.5, 8.7 mm



0 dB = 0.1894 A/m = -14.45 dBA/m

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Date/Time: 6/4/2013 9:27:21 AM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_UMTS\_Band\_IV

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB035D0**

Communication System: UID 0 - n/a, WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_low\_chan/Hearing Aid Compatibility Test

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.04000 A/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.03908 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.039 A/m</b>	Grid 2 <b>M4</b> <b>0.038 A/m</b>	Grid 3 <b>M4</b> <b>0.036 A/m</b>
Grid 4 <b>M4</b> <b>0.036 A/m</b>	Grid 5 <b>M4</b> <b>0.037 A/m</b>	Grid 6 <b>M4</b> <b>0.036 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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**0.041 A/m**

**0.037 A/m**

**0.030 A/m**

**Cursor:**

Total = 0.04150 A/m

H Category: M4

Location: 25, 25, 8.7 mm

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 -  
2007: 15 mm from Probe Center to the Device\_mid\_chan/Hearing**

**Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.05200 A/m; Power Drift = -0.16 dB


PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.04848 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.047 A/m</b>	Grid 2 <b>M4</b> <b>0.048 A/m</b>	Grid 3 <b>M4</b> <b>0.047 A/m</b>
Grid 4 <b>M4</b> <b>0.045 A/m</b>	Grid 5 <b>M4</b> <b>0.048 A/m</b>	Grid 6 <b>M4</b> <b>0.046 A/m</b>
Grid 7 <b>M4</b> <b>0.050 A/m</b>	Grid 8 <b>M4</b> <b>0.044 A/m</b>	Grid 9 <b>M4</b> <b>0.039 A/m</b>

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**Cursor:**

Total = 0.05032 A/m  
H Category: M4  
Location: 25, 25, 8.7 mm

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_high\_chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.06000 A/m; Power Drift = 0.10 dB  
PMR not calibrated. PMF = 1.000 is applied.  
H-field emissions = 0.05522 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.052 A/m</b>	Grid 2 <b>M4</b> <b>0.055 A/m</b>	Grid 3 <b>M4</b> <b>0.054 A/m</b>
Grid 4 <b>M4</b> <b>0.051 A/m</b>	Grid 5 <b>M4</b> <b>0.055 A/m</b>	Grid 6 <b>M4</b> <b>0.054 A/m</b>
Grid 7 <b>M4</b> <b>0.056 A/m</b>	Grid 8 <b>M4</b> <b>0.051 A/m</b>	Grid 9 <b>M4</b> <b>0.047 A/m</b>

**Cursor:**

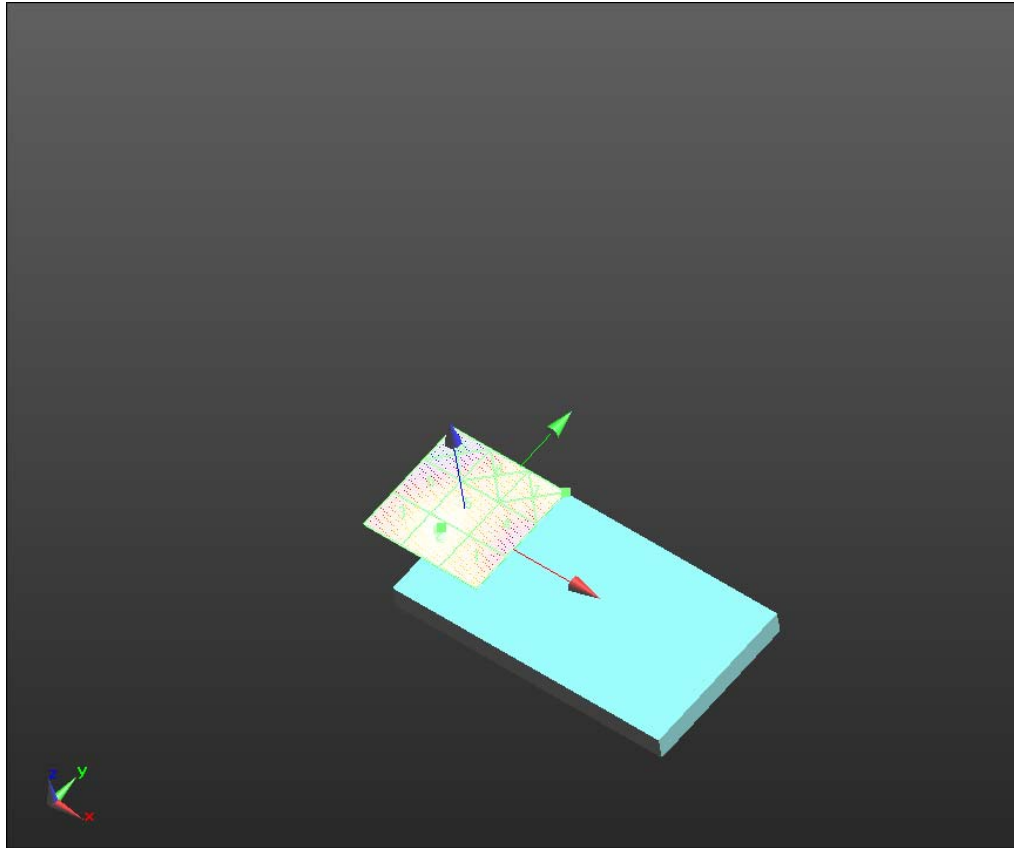
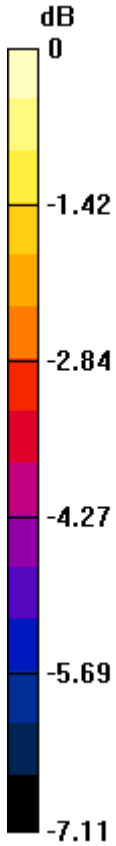
Total = 0.05611 A/m  
H Category: M4  
Location: 25, 25, 8.7 mm

Author Data  
**Daoud Attayi**

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0 dB = 0.04150 A/m = -27.64 dBA/m



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Date/Time: 6/4/2013 9:45:08 AM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_UMTS\_Band\_IV\_telecoil

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB035D0**

Communication System: UID 0 - n/a, WCDMA FDD IV; Frequency: 1752.6 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_telecoil/Hearing Aid Compatibility Test

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.05900 A/m; Power Drift = 0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.05454 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.053 A/m</b>	Grid 2 <b>M4</b> <b>0.050 A/m</b>	Grid 3 <b>M4</b> <b>0.046 A/m</b>
Grid 4 <b>M4</b> <b>0.052 A/m</b>	Grid 5 <b>M4</b> <b>0.055 A/m</b>	Grid 6 <b>M4</b> <b>0.052 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

Author Data  
**Daoud Attayi**

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FCC ID  
**L6ARFR100LW**

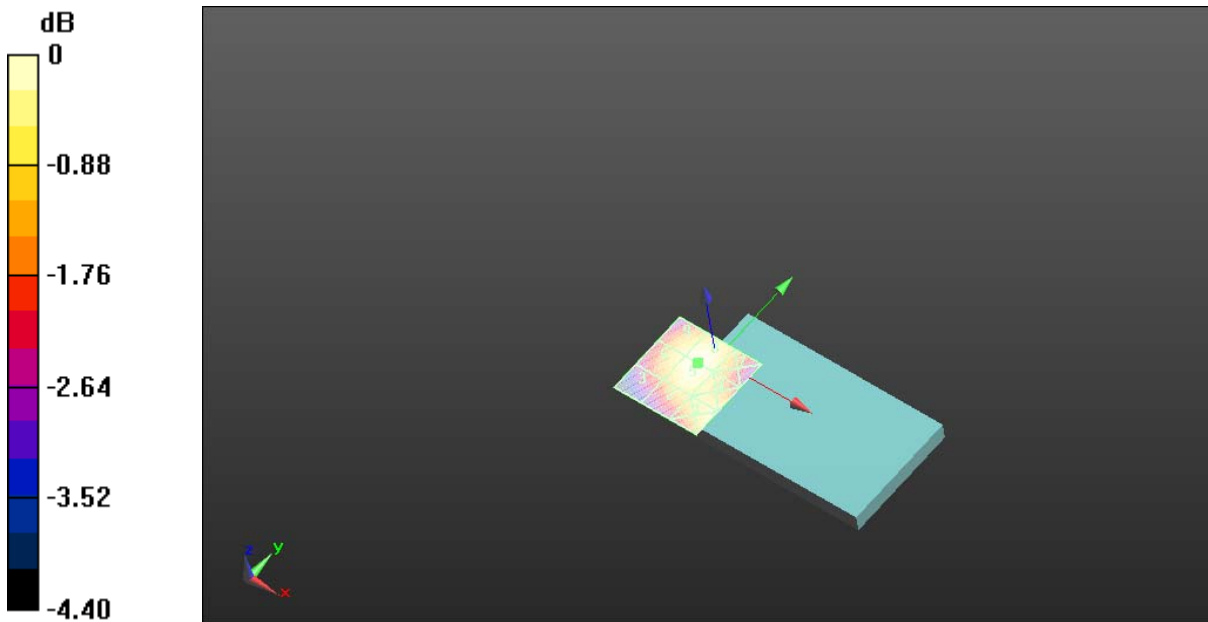
<b>0.051 A/m</b>	<b>0.055 A/m</b>	<b>0.052 A/m</b>
------------------	------------------	------------------

**Cursor:**


Total = 0.05454 A/m

H Category: M4

Location: -1, -11, 8.7 mm



0 dB = 0.05454 A/m = -25.27 dBA/m

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Date/Time: 6/3/2013 5:10:33 PM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_GSM\_1900-Rev 2-05

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2FFFB6AF**

Communication System: UID 0 - n/a, GSM 1900; Frequency: 1850.2 MHz, Frequency: 1880 MHz,  
Frequency: 1909.8 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_low\_chan/Hearing Aid Compatibility Test

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.06700 A/m; Power Drift = -0.11 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.1706 A/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.160 A/m</b>	Grid 2 <b>M3</b> <b>0.171 A/m</b>	Grid 3 <b>M3</b> <b>0.169 A/m</b>
Grid 4 <b>M3</b> <b>0.144 A/m</b>	Grid 5 <b>M3</b> <b>0.170 A/m</b>	Grid 6 <b>M3</b> <b>0.168 A/m</b>
Grid 7 <b>M3</b>	Grid 8 <b>M3</b>	Grid 9 <b>M3</b>

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**Daoud Attayi**

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<b>0.184 A/m</b>	<b>0.176 A/m</b>	<b>0.146 A/m</b>
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**Cursor:**

Total = 0.1836 A/m  
 H Category: M3  
 Location: 16, 25, 8.7 mm

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_mid\_chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.07000 A/m; Power Drift = -0.00 dB  
 PMR not calibrated. PMF = 2.860 is applied.  
 H-field emissions = 0.1759 A/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.176 A/m</b>	Grid 2 <b>M3</b> <b>0.176 A/m</b>	Grid 3 <b>M3</b> <b>0.171 A/m</b>
Grid 4 <b>M3</b> <b>0.156 A/m</b>	Grid 5 <b>M3</b> <b>0.176 A/m</b>	Grid 6 <b>M3</b> <b>0.171 A/m</b>
Grid 7 <b>M3</b> <b>0.188 A/m</b>	Grid 8 <b>M3</b> <b>0.180 A/m</b>	Grid 9 <b>M3</b> <b>0.154 A/m</b>

**Cursor:**

Total = 0.1878 A/m  
 H Category: M3  
 Location: 20, 25, 8.7 mm

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_high\_chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.08000 A/m; Power Drift = 0.11 dB  
 PMR not calibrated. PMF = 2.860 is applied.  
 H-field emissions = 0.1978 A/m

**Near-field category: M3 (AWF -5 dB)**

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**Daoud Attayi**

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PMF scaled H-field

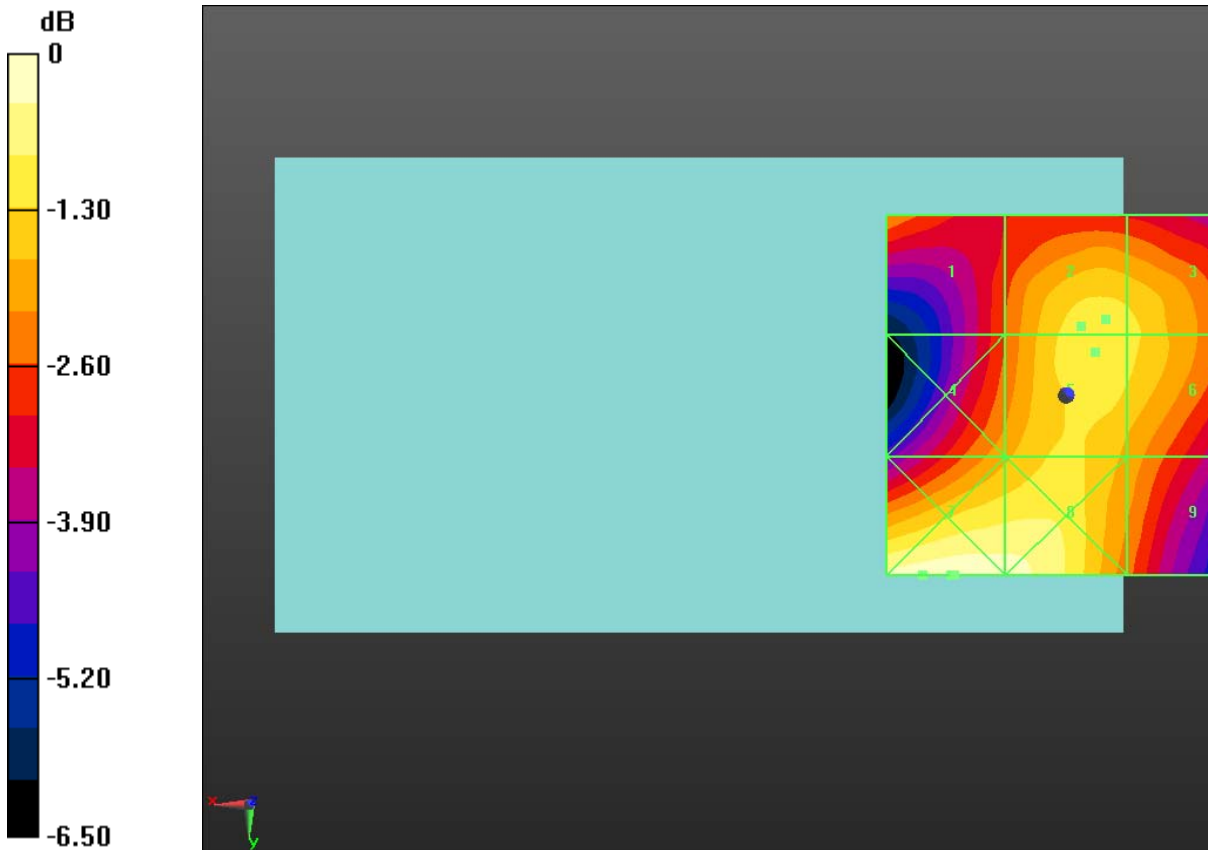
Grid 1 <b>M3</b> <b>0.171 A/m</b>	Grid 2 <b>M3</b> <b>0.197 A/m</b>	Grid 3 <b>M3</b> <b>0.193 A/m</b>
Grid 4 <b>M3</b> <b>0.178 A/m</b>	Grid 5 <b>M3</b> <b>0.198 A/m</b>	Grid 6 <b>M3</b> <b>0.193 A/m</b>
Grid 7 <b>M3</b> <b>0.218 A/m</b>	Grid 8 <b>M3</b> <b>0.214 A/m</b>	Grid 9 <b>M3</b> <b>0.177 A/m</b>

**Cursor:**


Total = 0.2184 A/m

H Category: M3

Location: 15.5, 25, 8.7 mm



0 dB = 0.1849 A/m = -14.66 dBA/m

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Date/Time: 6/3/2013 5:31:04 PM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_GSM\_1900-Rev 2-05\_Telecoil

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2FFFB6AF**

Communication System: UID 0 - n/a, GSM 1900; Frequency: 1909.8 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_telecoil/Hearing Aid Compatibility Test

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.08100 A/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.1928 A/m

**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.193 A/m</b>	Grid 2 <b>M3</b> <b>0.148 A/m</b>	Grid 3 <b>M4</b> <b>0.133 A/m</b>
Grid 4 <b>M3</b> <b>0.186 A/m</b>	Grid 5 <b>M3</b> <b>0.189 A/m</b>	Grid 6 <b>M3</b> <b>0.181 A/m</b>
Grid 7 <b>M3</b>	Grid 8 <b>M3</b>	Grid 9 <b>M3</b>

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Author Data  
**Daoud Attayi**

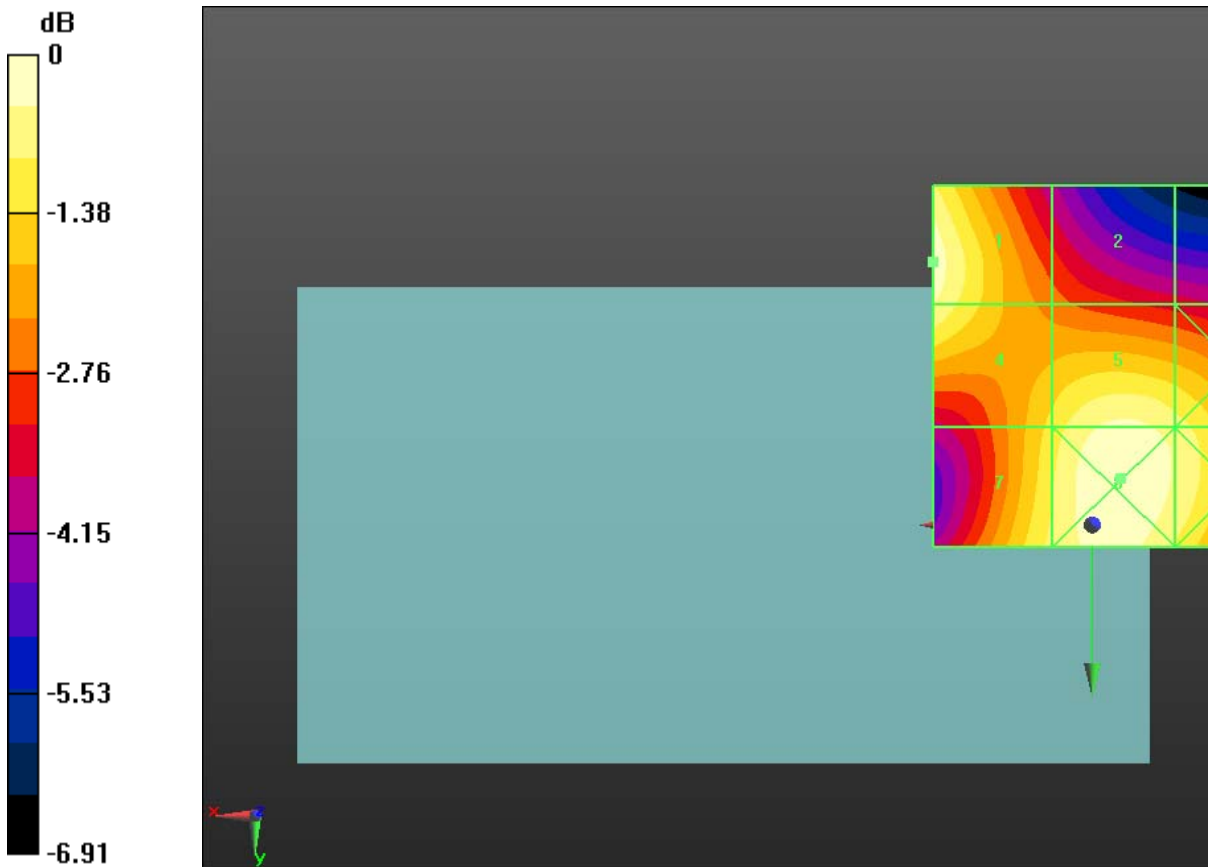
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<b>0.180 A/m</b>	<b>0.195 A/m</b>	<b>0.185 A/m</b>
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**Cursor:**  
 Total = 0.1953 A/m  
 H Category: M3  
 Location: -4, -6.5, 8.7 mm



0 dB = 0.1967 A/m = -14.12 dBA/m

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Date/Time: 3/23/2013 12:24:38 AM

Test Laboratory: RIM Testing Services

## HAC RF\_H-Field\_UMTS\_Band\_II

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB04D29**

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz, Frequency: 1880 MHz, Frequency: 1907.6 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

### Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_low\_chan/Hearing Aid Compatibility Test

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.1200 A/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.1079 A/m


**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.108 A/m</b>	Grid 2 <b>M4</b> <b>0.105 A/m</b>	Grid 3 <b>M4</b> <b>0.103 A/m</b>
Grid 4 <b>M4</b> <b>0.093 A/m</b>	Grid 5 <b>M4</b> <b>0.105 A/m</b>	Grid 6 <b>M4</b> <b>0.103 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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<b>0.106 A/m</b>	<b>0.102 A/m</b>	<b>0.089 A/m</b>
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**Cursor:**  
Total = 0.1079 A/m  
H Category: M4  
Location: 25, -25, 8.7 mm

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_mid\_chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.1070 A/m; Power Drift = 0.00 dB  
PMR not calibrated. PMF = 1.000 is applied.  
H-field emissions = 0.1020 A/m  
**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.101 A/m</b>	Grid 2 <b>M4</b> <b>0.092 A/m</b>	Grid 3 <b>M4</b> <b>0.090 A/m</b>
Grid 4 <b>M4</b> <b>0.082 A/m</b>	Grid 5 <b>M4</b> <b>0.092 A/m</b>	Grid 6 <b>M4</b> <b>0.090 A/m</b>
Grid 7 <b>M4</b> <b>0.102 A/m</b>	Grid 8 <b>M4</b> <b>0.099 A/m</b>	Grid 9 <b>M4</b> <b>0.082 A/m</b>



Author Data  
**Daoud Attayi**

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**Cursor:**

Total = 0.1020 A/m  
 H Category: M4  
 Location: 19.5, 25, 8.7 mm

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 -  
 2007: 15 mm from Probe Center to the Device\_high\_chan/Hearing  
 Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000  
 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.1120 A/m; Power Drift = -0.06 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 H-field emissions = 0.1070 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.107 A/m</b>	Grid 2 <b>M4</b> <b>0.099 A/m</b>	Grid 3 <b>M4</b> <b>0.096 A/m</b>
Grid 4 <b>M4</b> <b>0.089 A/m</b>	Grid 5 <b>M4</b> <b>0.098 A/m</b>	Grid 6 <b>M4</b> <b>0.096 A/m</b>
Grid 7 <b>M4</b> <b>0.105 A/m</b>	Grid 8 <b>M4</b> <b>0.100 A/m</b>	Grid 9 <b>M4</b> <b>0.086 A/m</b>

**Cursor:**

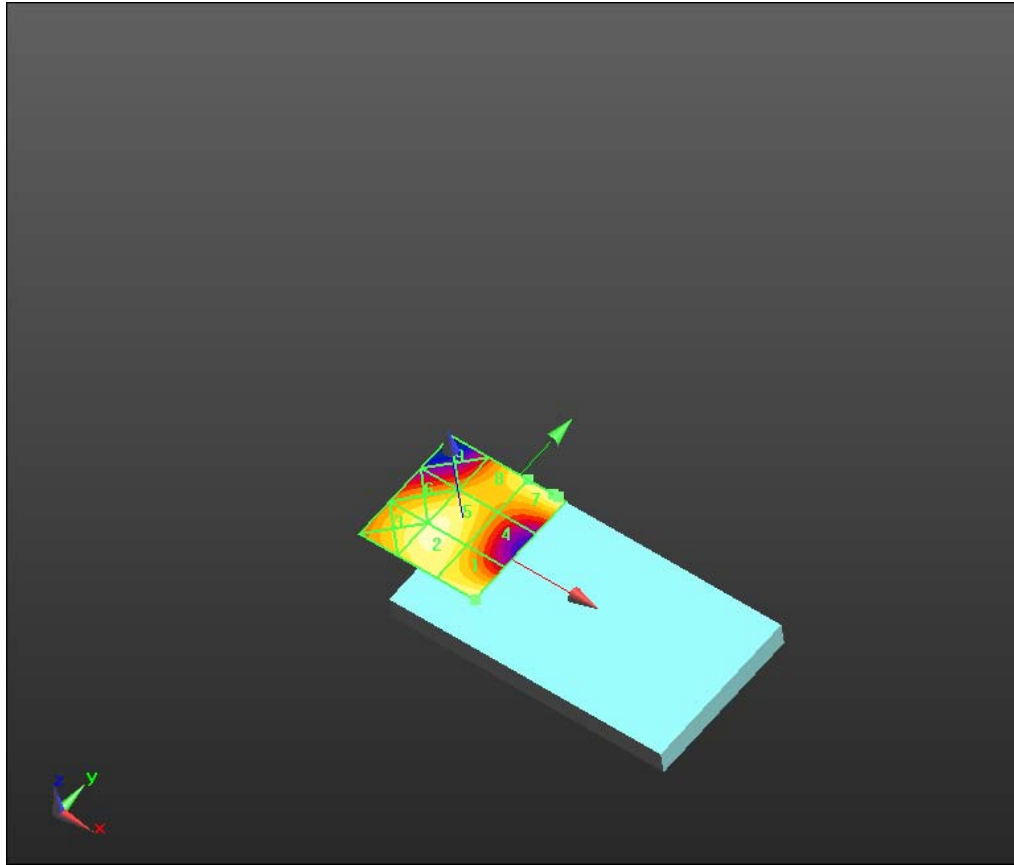
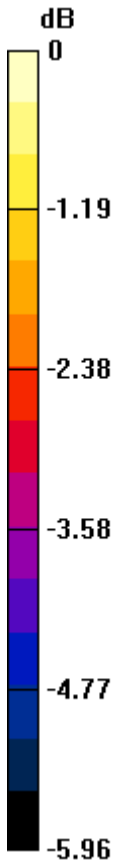
Total = 0.1070 A/m  
 H Category: M4  
 Location: 25, -25, 8.7 mm

Author Data  
**Daoud Attayi**


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0 dB = 0.1079 A/m = -19.34 dBA/m

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Date/Time: 3/23/2013 12:56:54 AM

Test Laboratory: RIM Testing Services

## HAC RF\_H-Field\_UMTS\_Band\_II\_Telecoil

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2AB04D29**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

### Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_telecoil/Hearing Aid Compatibility Test

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.1130 A/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.1003 A/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.118 A/m</b>	Grid 2 <b>M4</b> <b>0.100 A/m</b>	Grid 3 <b>M4</b> <b>0.086 A/m</b>
Grid 4 <b>M4</b> <b>0.114 A/m</b>	Grid 5 <b>M4</b> <b>0.100 A/m</b>	Grid 6 <b>M4</b> <b>0.098 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

Author Data  
**Daoud Attayi**

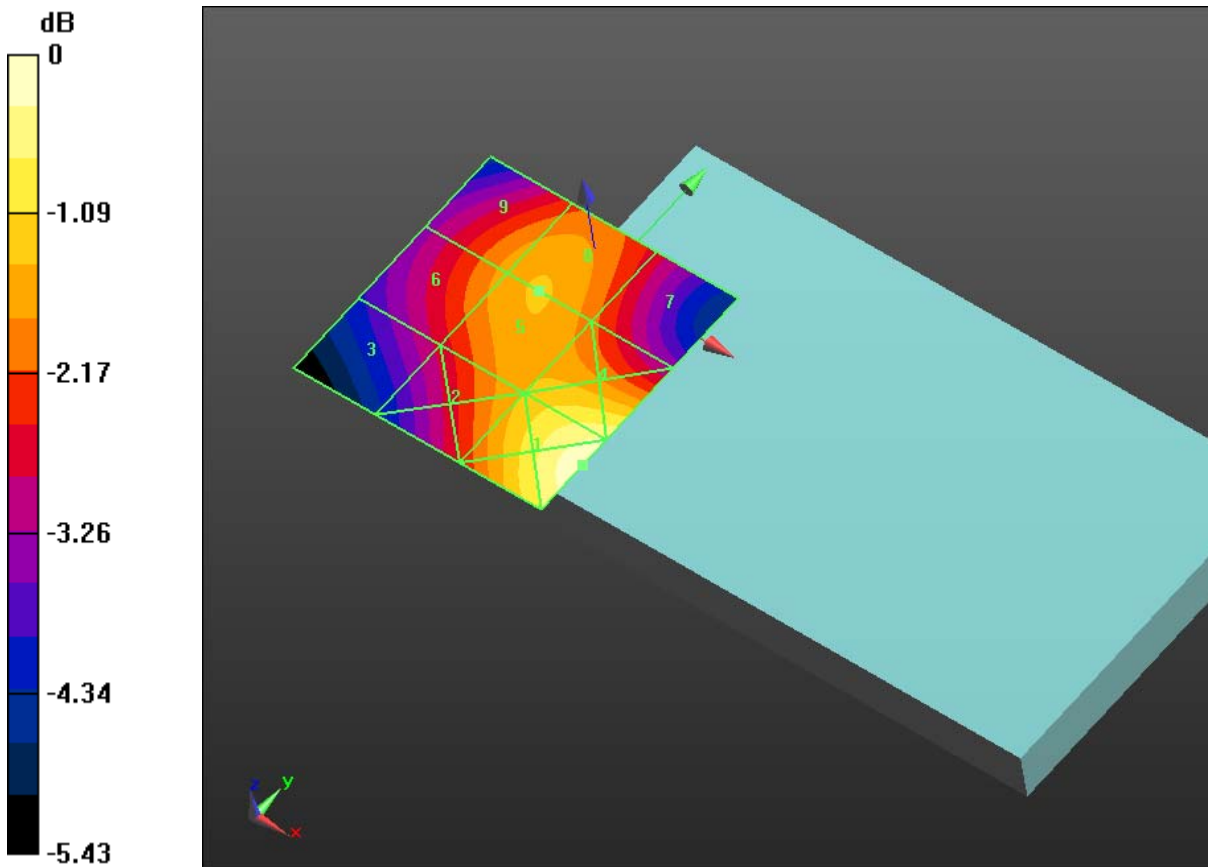
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<b>0.093 A/m</b>	<b>0.100 A/m</b>	<b>0.098 A/m</b>
------------------	------------------	------------------

**Cursor:**  
 Total = 0.1180 A/m  
 H Category: M4  
 Location: 25, -34.5, 8.7 mm



0 dB = 0.1180 A/m = -18.56 dBA/m