

	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFL111LW, RFP121LW</b>		Page <b>1 (155)</b>
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## **Annex A: Measurement data and plots**

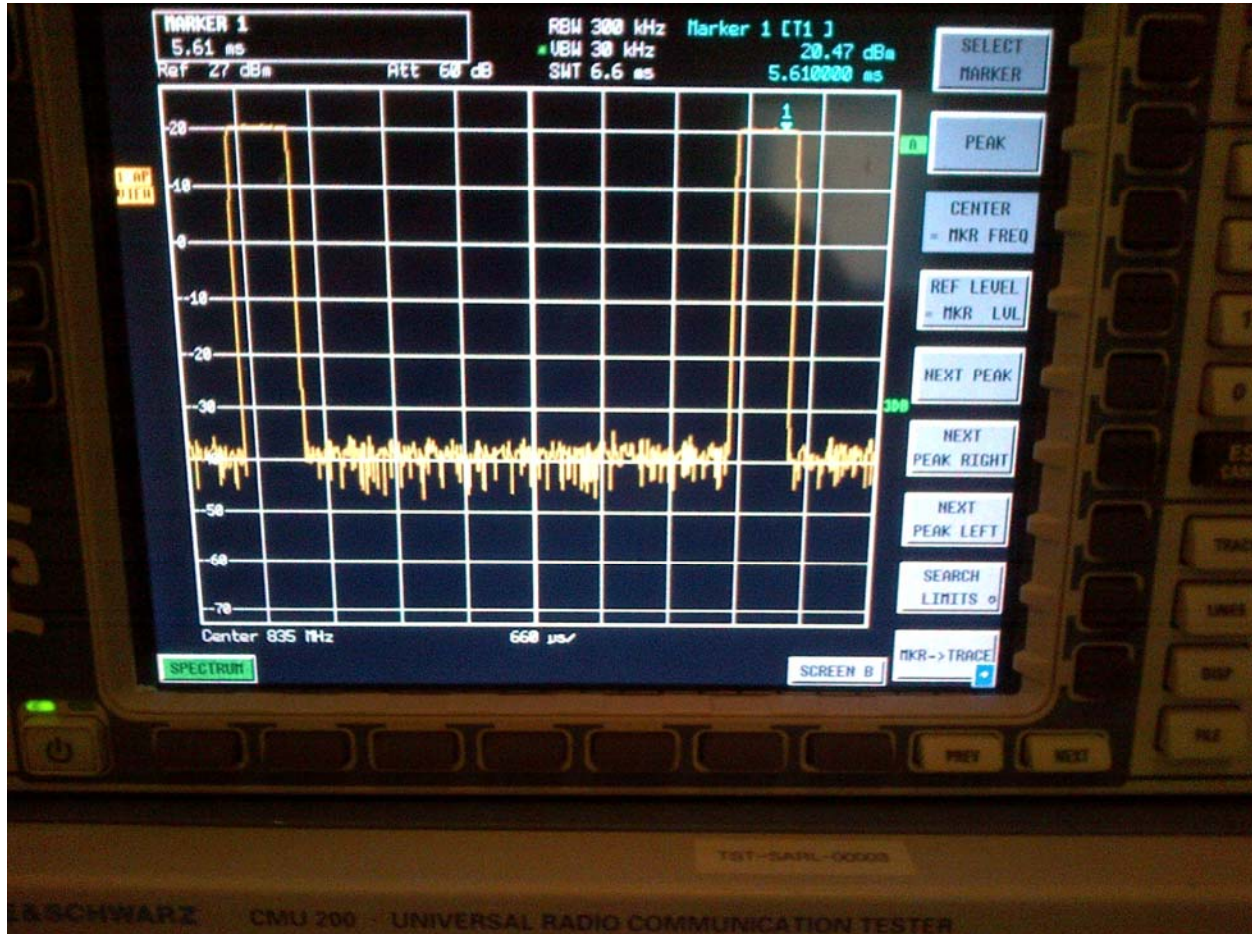
### **A.1 Spectrum analyser plots: GSM/UMTS, CW, 80%AM, signals**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
L6ARFP120LW**



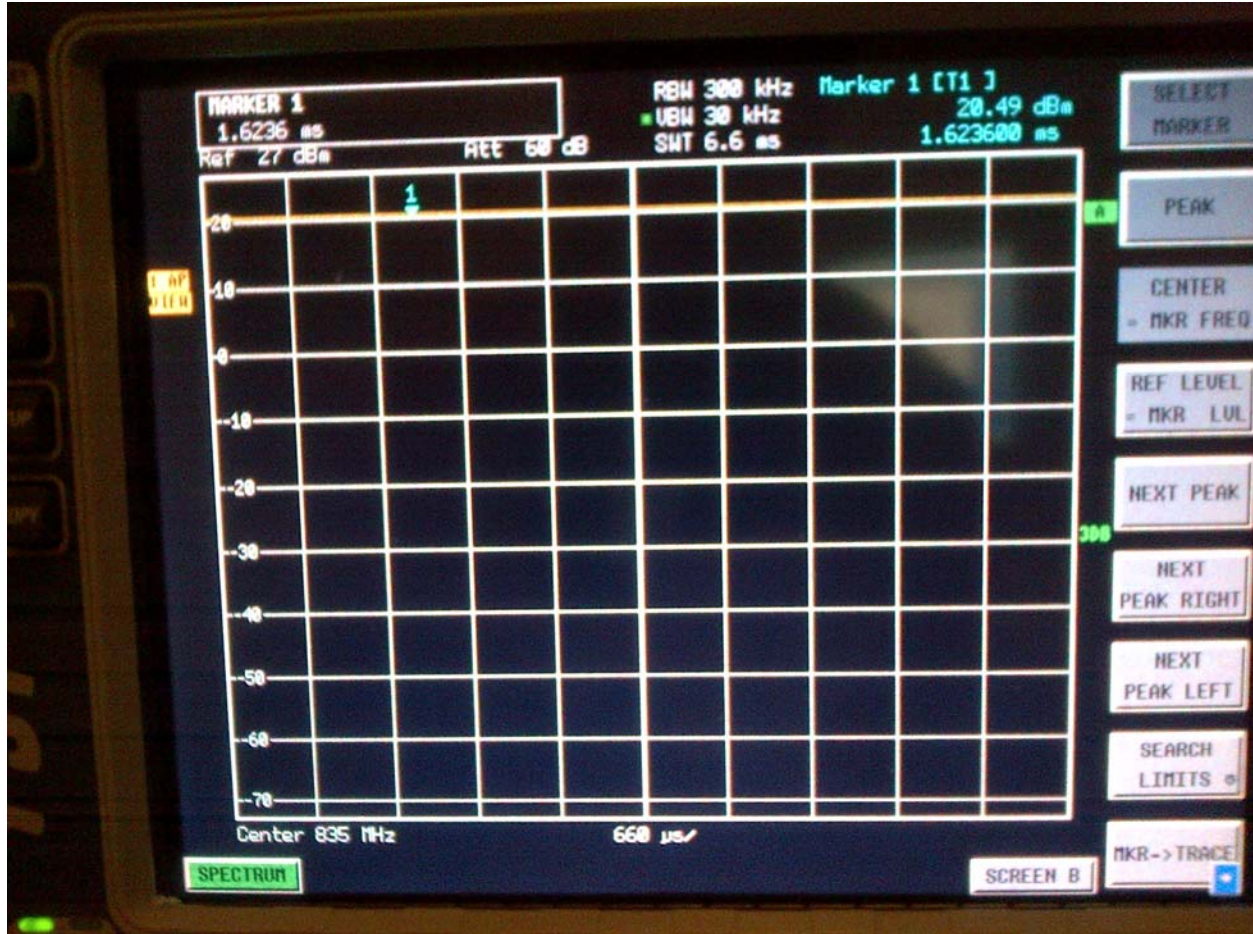
**GSM 835 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
Feb. 13-14, 2013**

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**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
L6ARFP120LW**



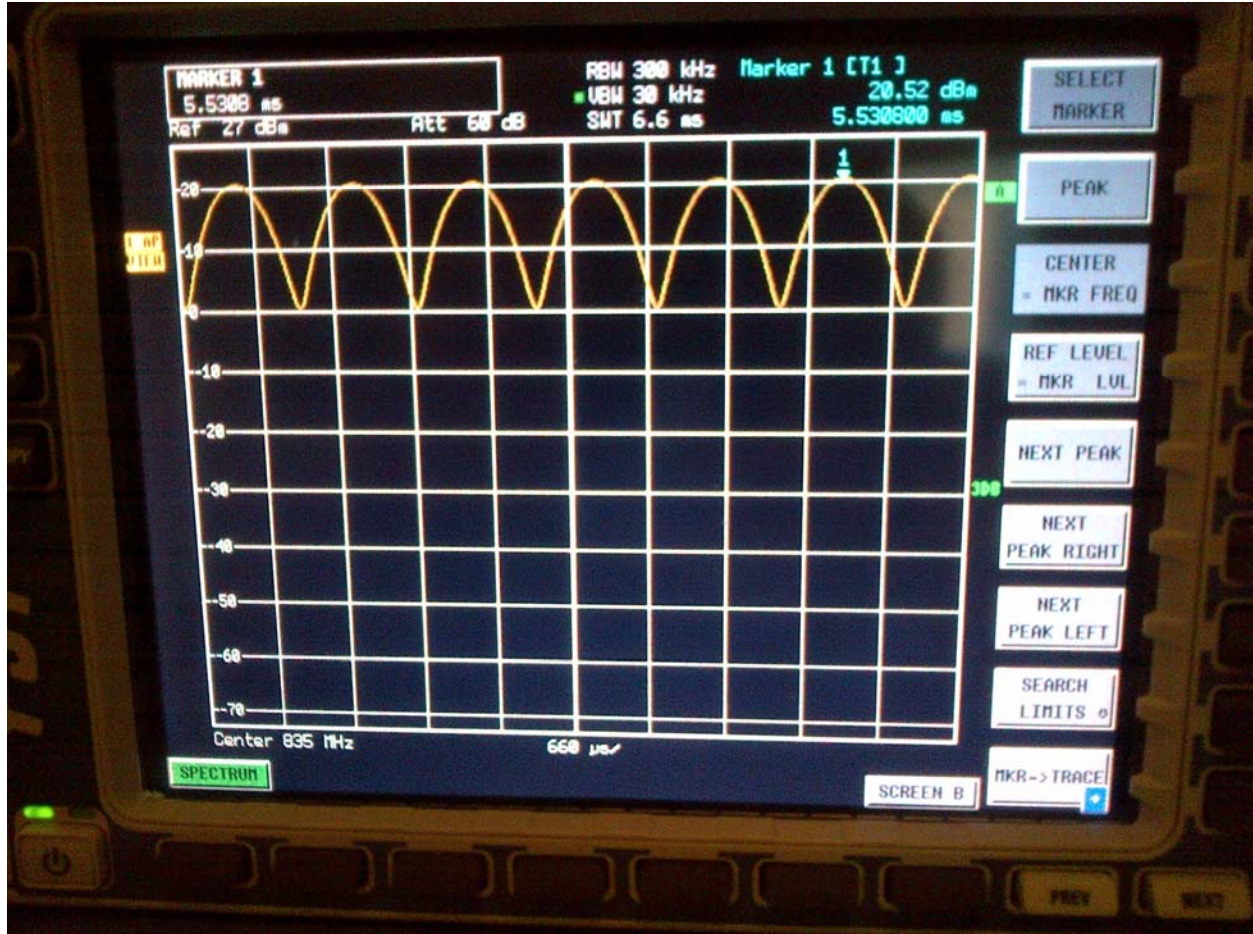
**CW 835 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
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**RTS-6026-1302-07**

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**L6ARFL110LW  
 L6ARFP120LW**



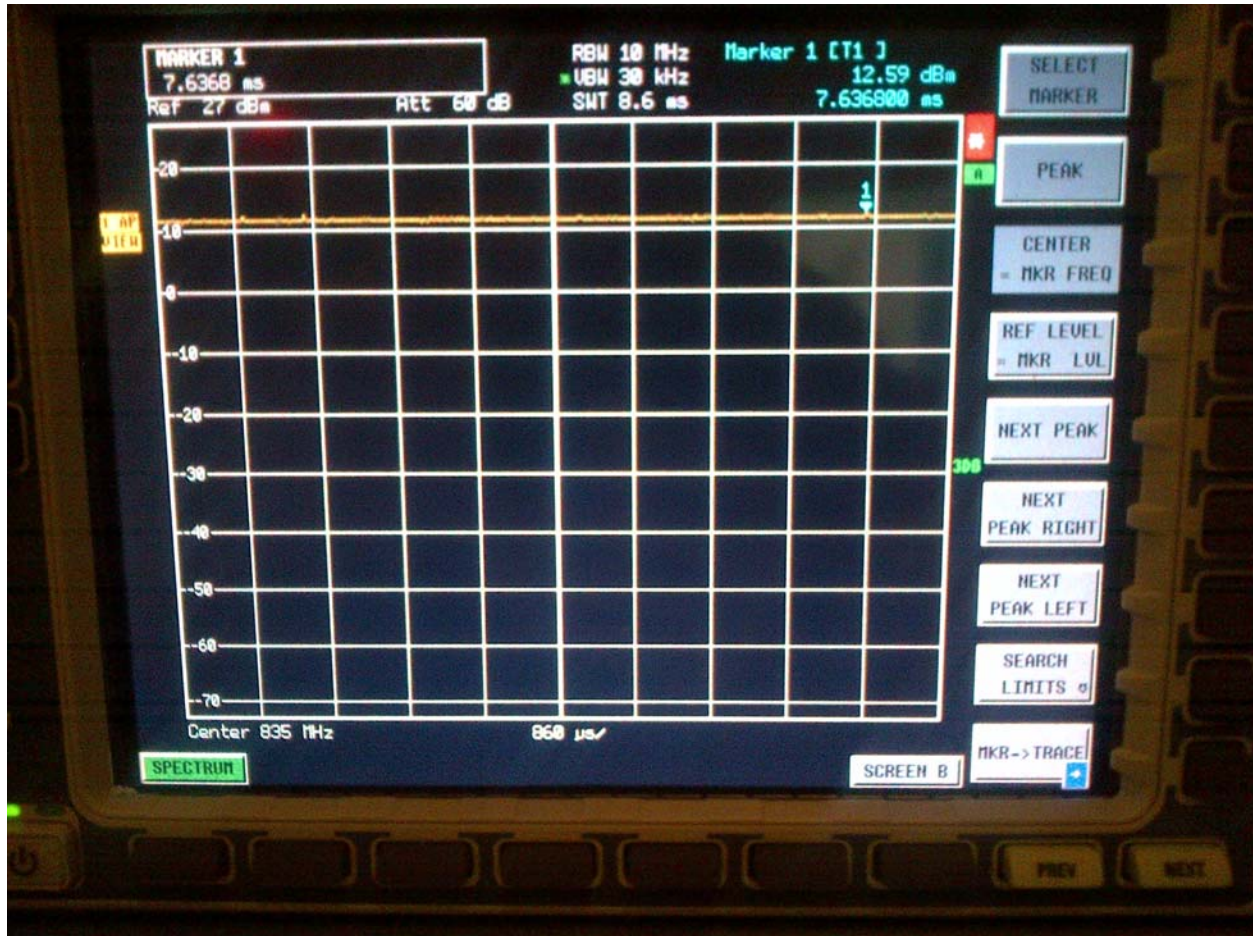
**AM 80% 835 MHz**

Author Data  
**Daoud Attayi**

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**Feb. 17, June 28, Dec. 17-19, 2012  
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Report No  
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**L6ARFL110LW  
L6ARFP120LW**



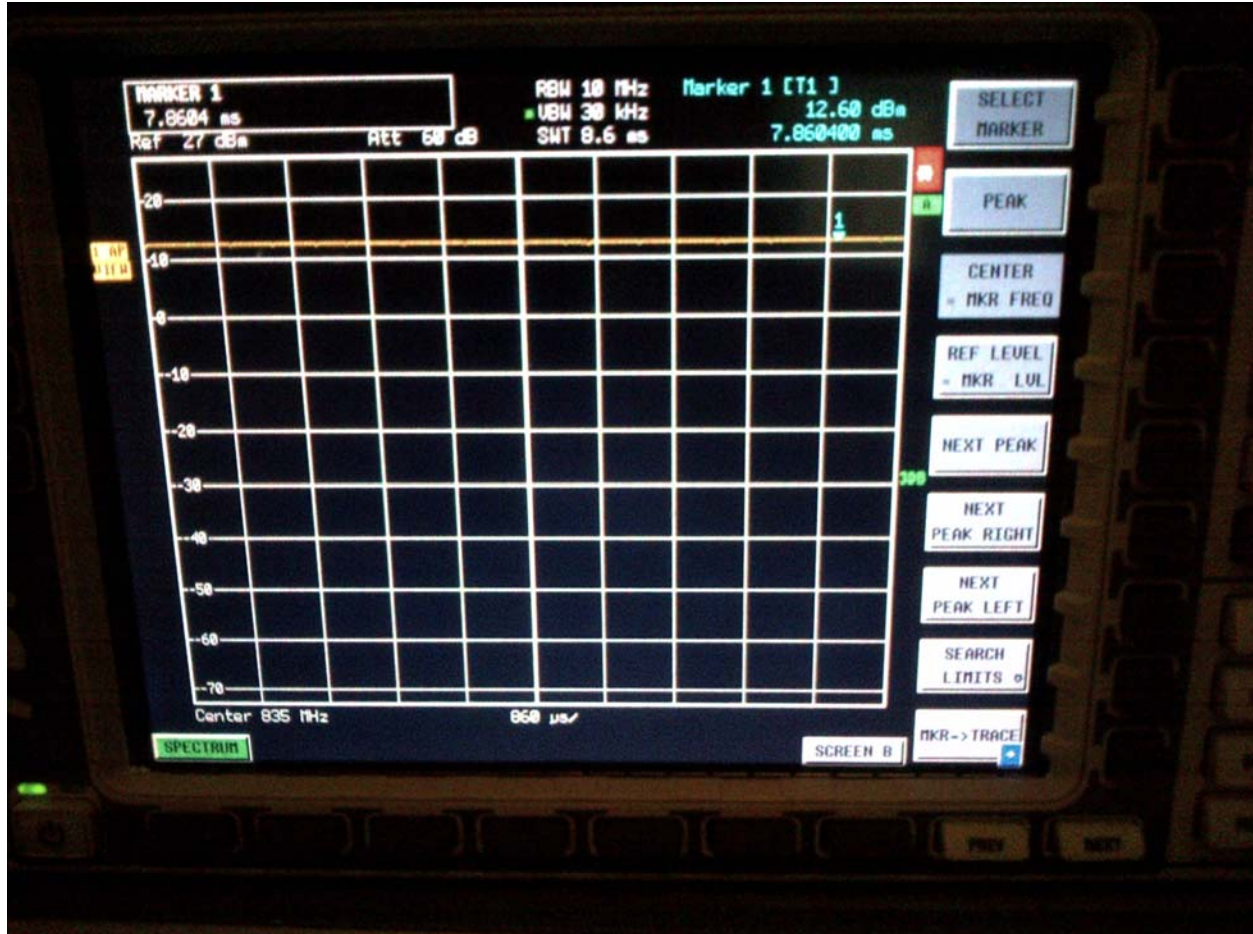
**UMTS 835 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

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FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**



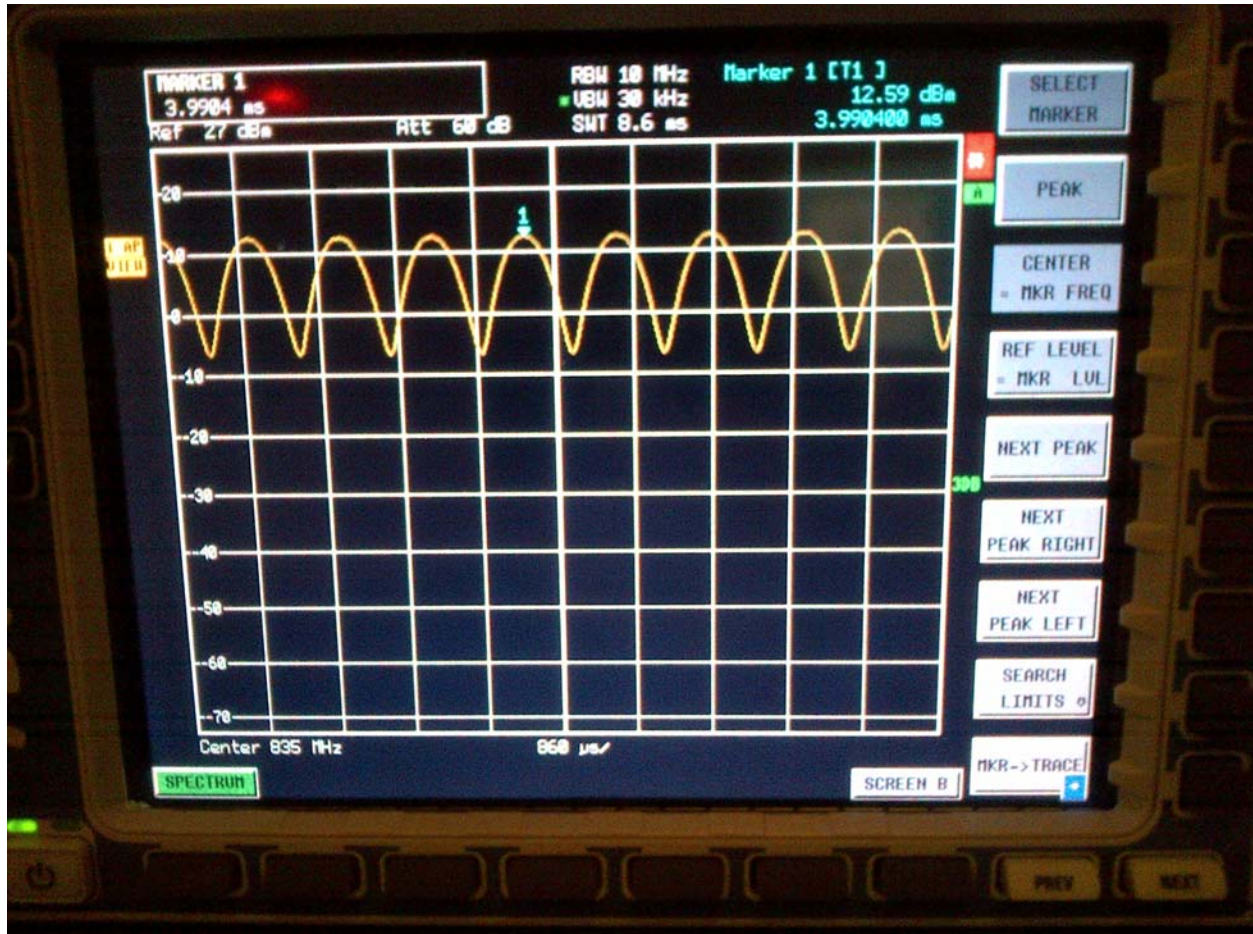
**CW 835 MHz**

Author Data  
**Daoud Attayi**

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**AM 80% 835 MHz**



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Author Data

**Daoud Attayi**

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L6ARFP120LW**



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 Feb. 13-14, 2013**

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**L6ARFL110LW  
 L6ARFP120LW**



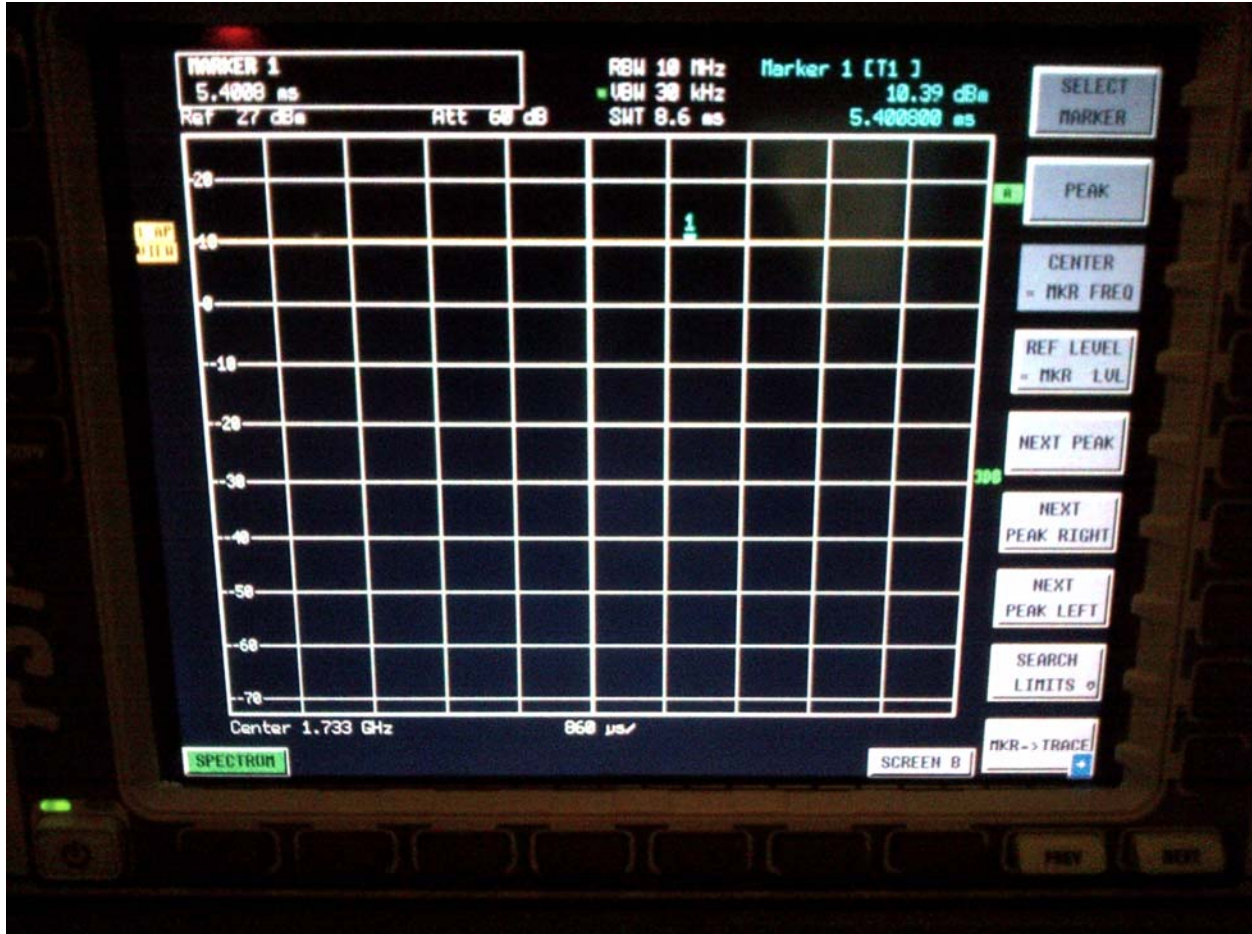
UMTS 1733 MHz

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**



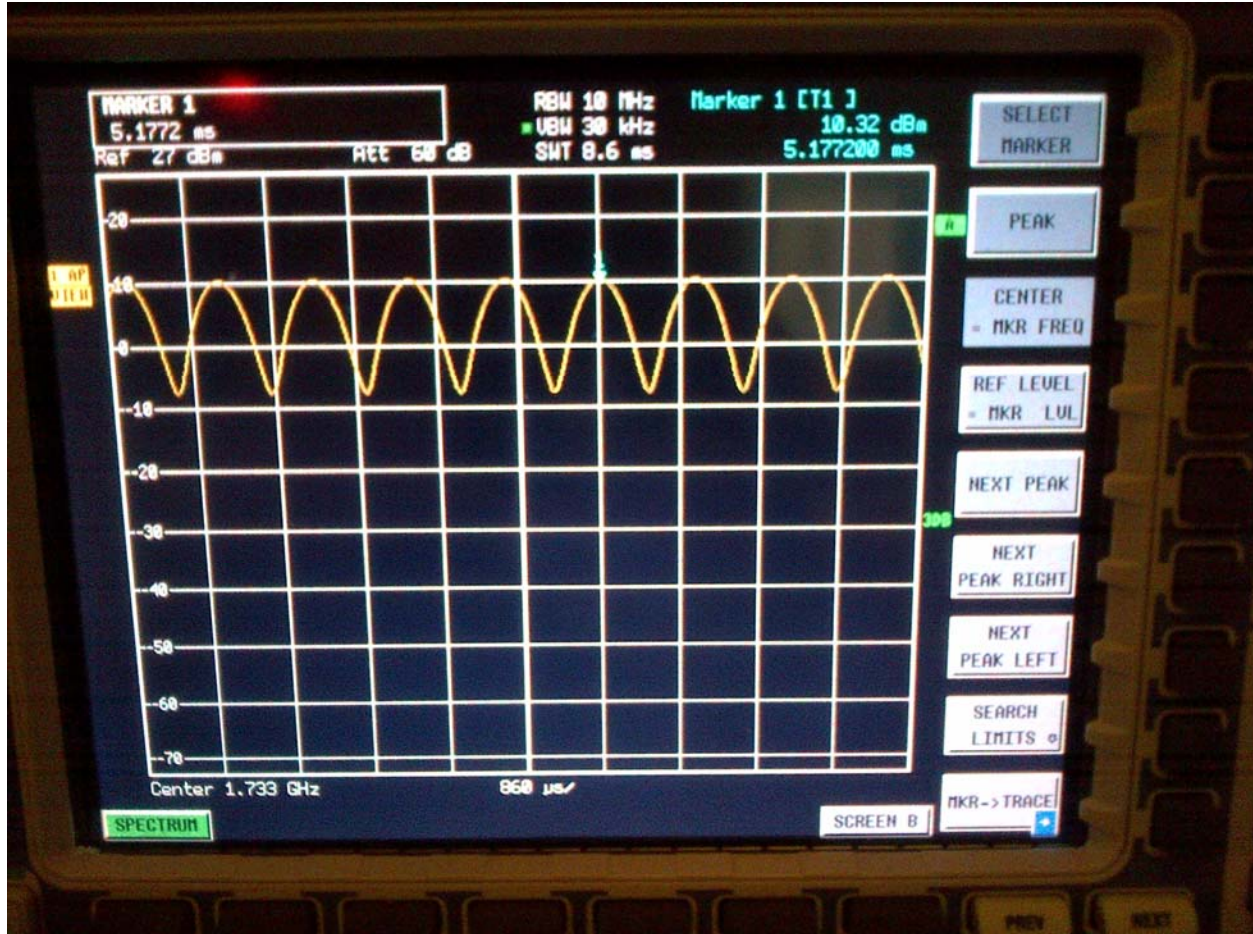
**CW 1733 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**



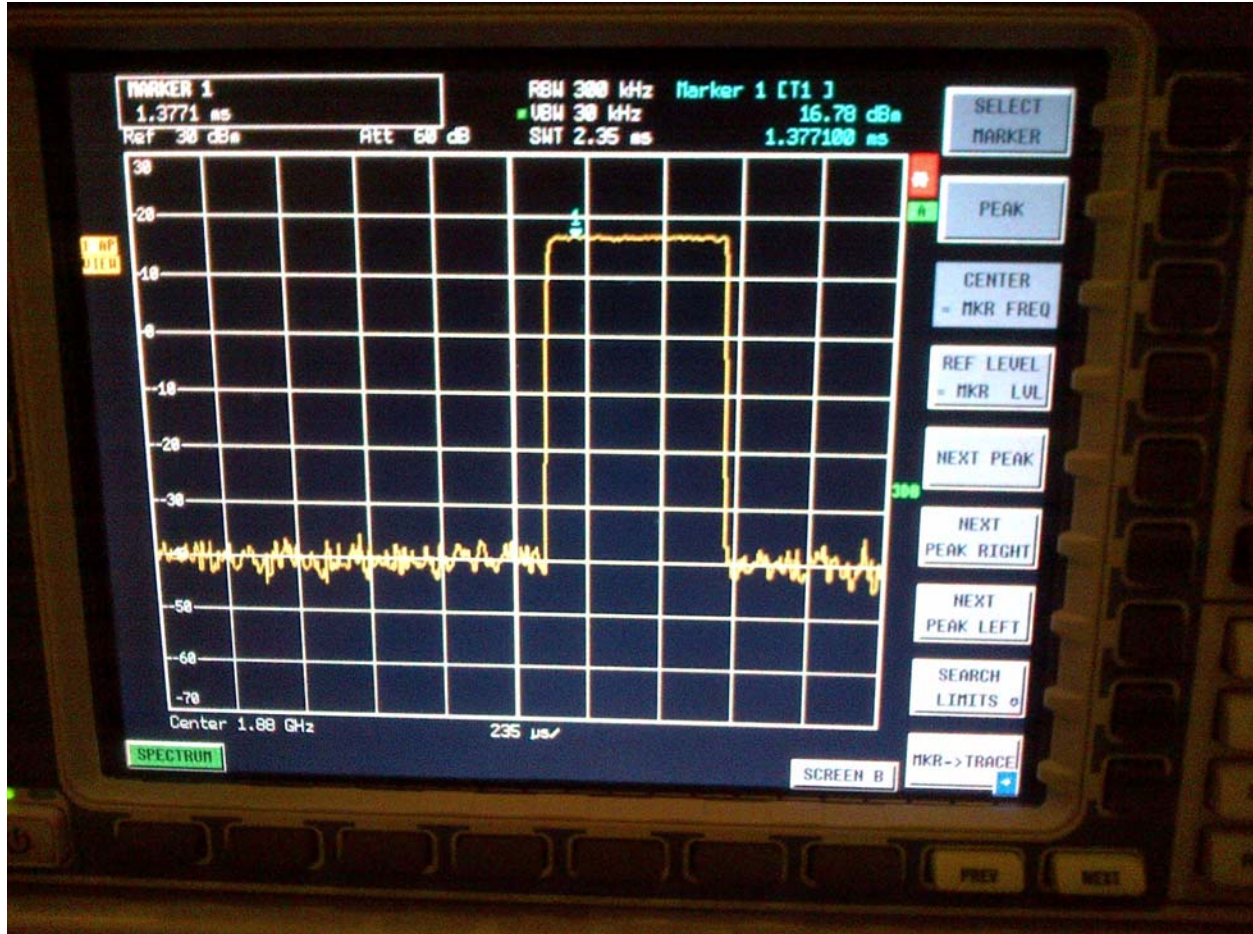
**AM80% 1733 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**



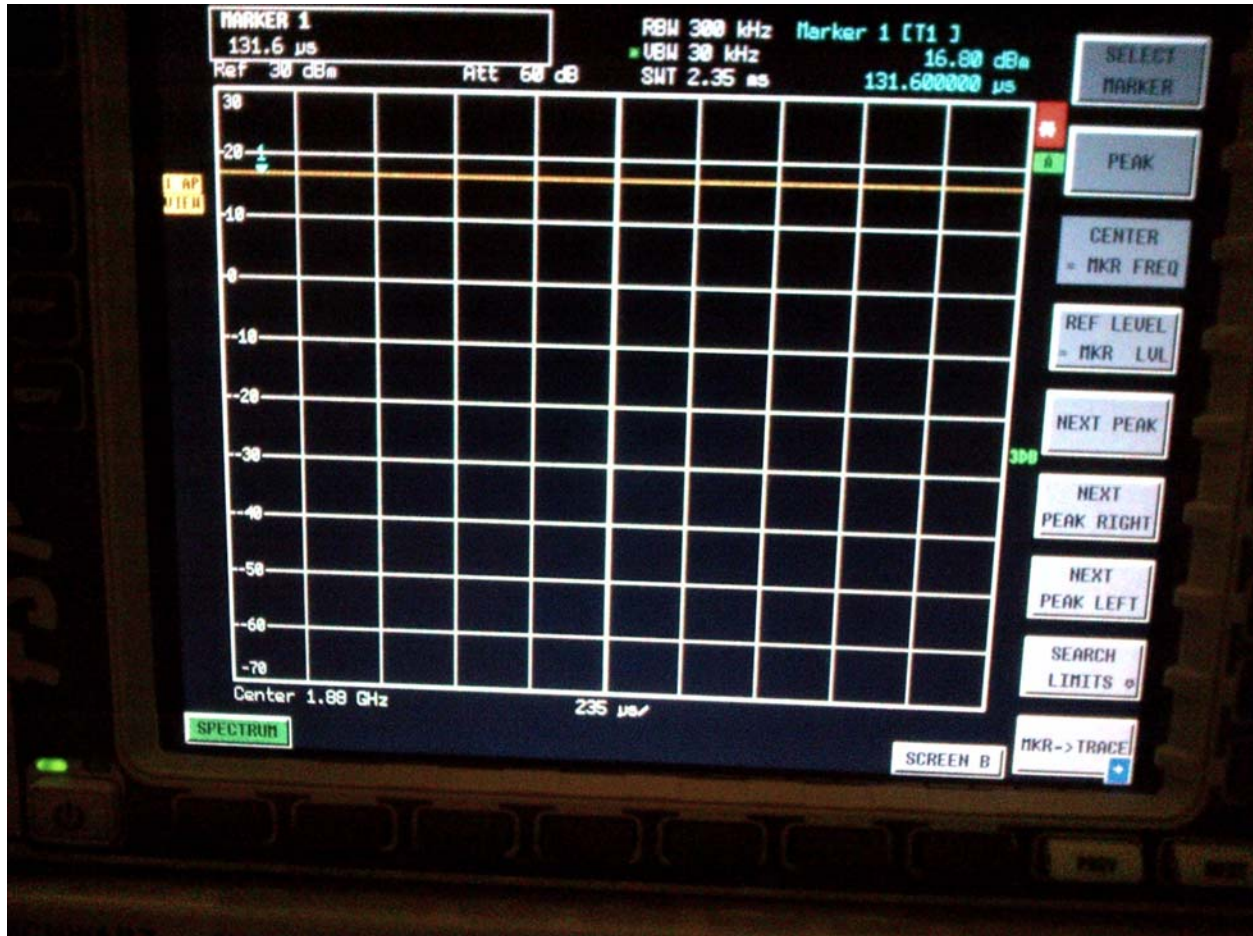
**GSM 1880 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

Report No  
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FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**



**CW 1880 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
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 L6ARFP120LW**



**AM 80 % 1880 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
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 Feb. 13-14, 2013**

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**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**



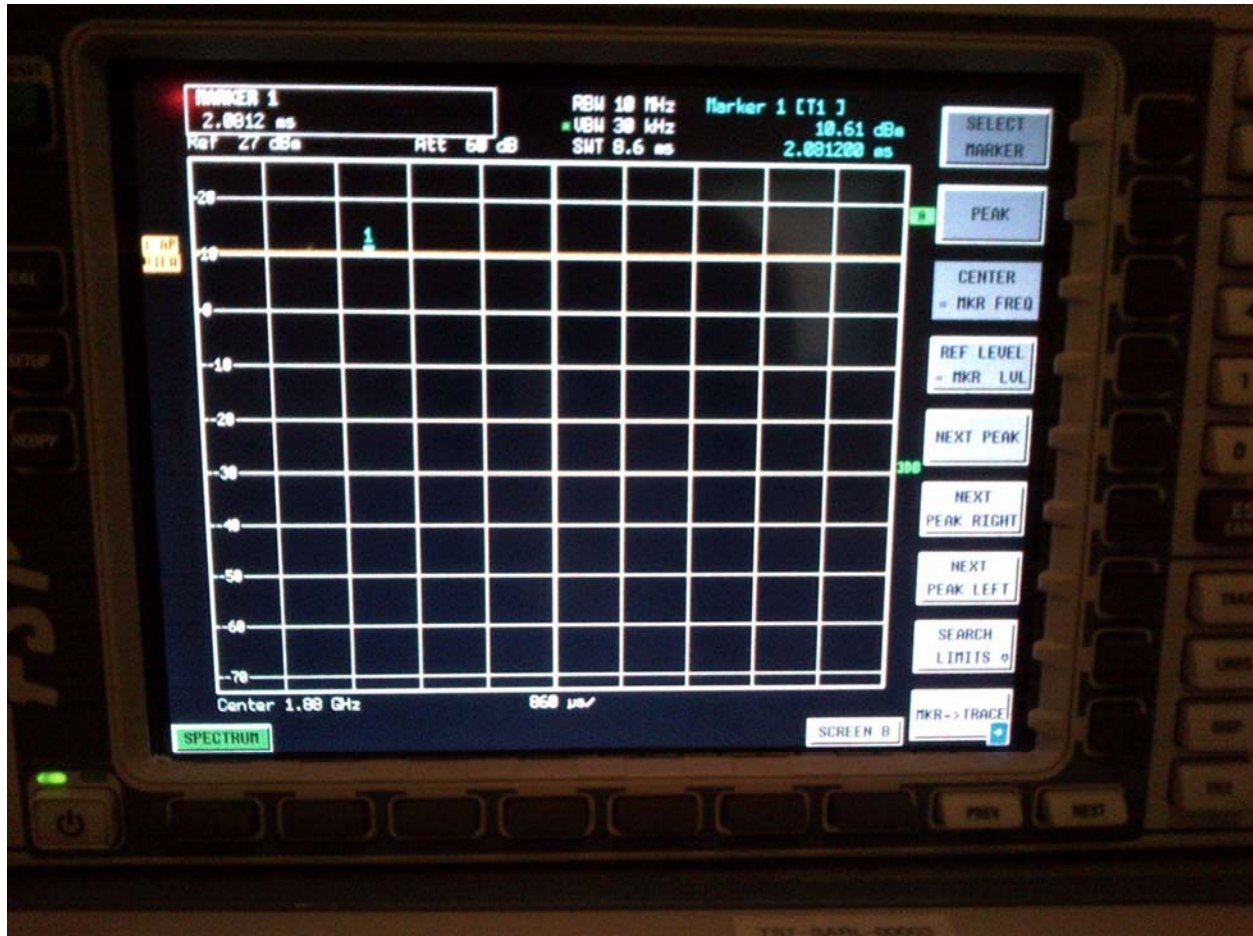
UMTS 1880 MHz

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

Report No  
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 L6ARFP120LW**



**CW 1880 MHz**

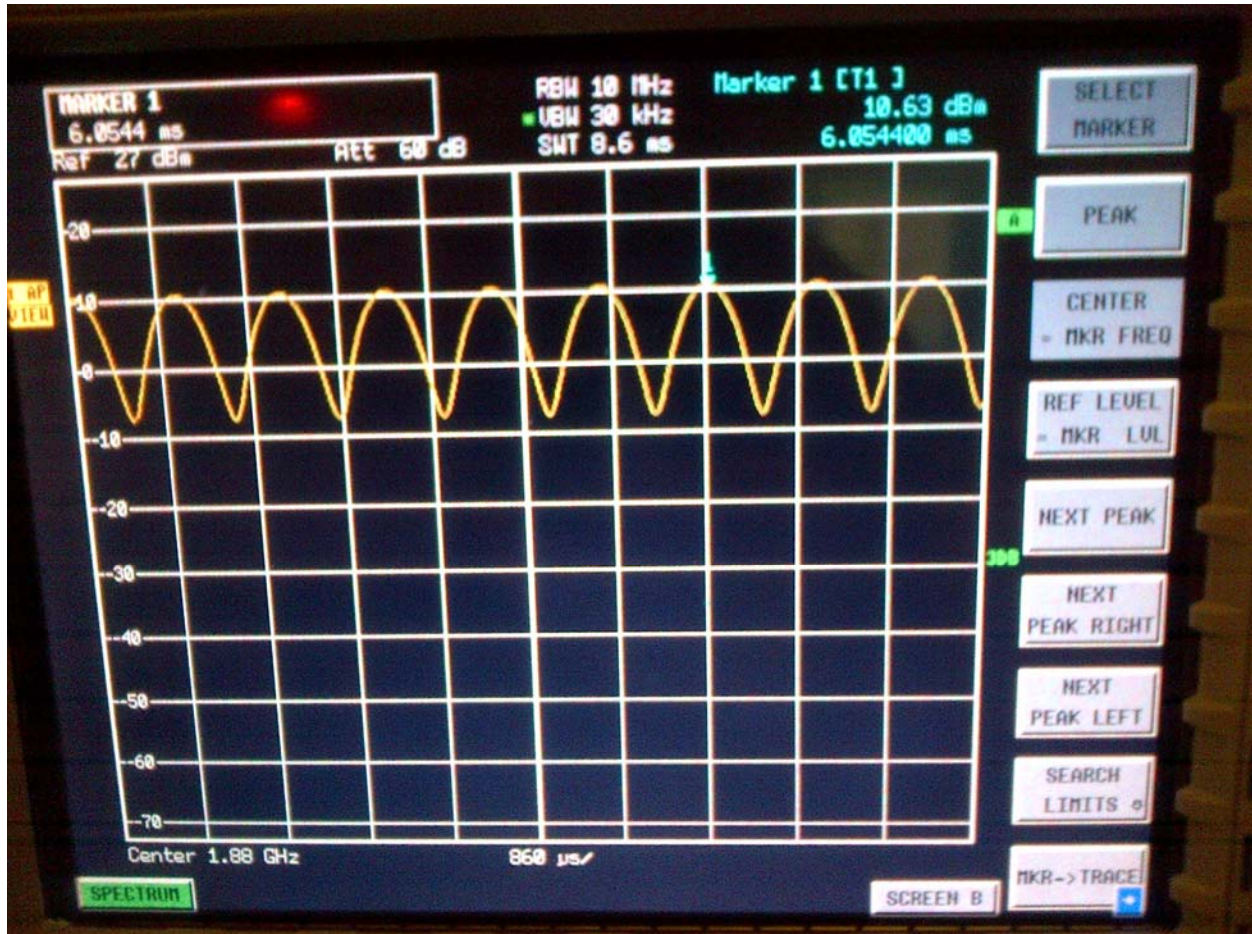


Author Data  
**Daoud Attayi**

Dates of Test  
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FCC ID  
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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: 12/17/2012 11:31:29 PM

Test Laboratory: RIM Testing Services

### HAC RF\_E-Field\_validation\_835 MHz\_12\_17\_12

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

Communication System: CW; 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 - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 106.6 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 168.4 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>144.2 V/m</b>	Grid 2 <b>M4</b> <b>154.3 V/m</b>	Grid 3 <b>M4</b> <b>154.2 V/m</b>
Grid 4 <b>M4</b> <b>80.47 V/m</b>	Grid 5 <b>M4</b> <b>83.31 V/m</b>	Grid 6 <b>M4</b> <b>81.66 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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Author Data  
**Daoud Attayi**

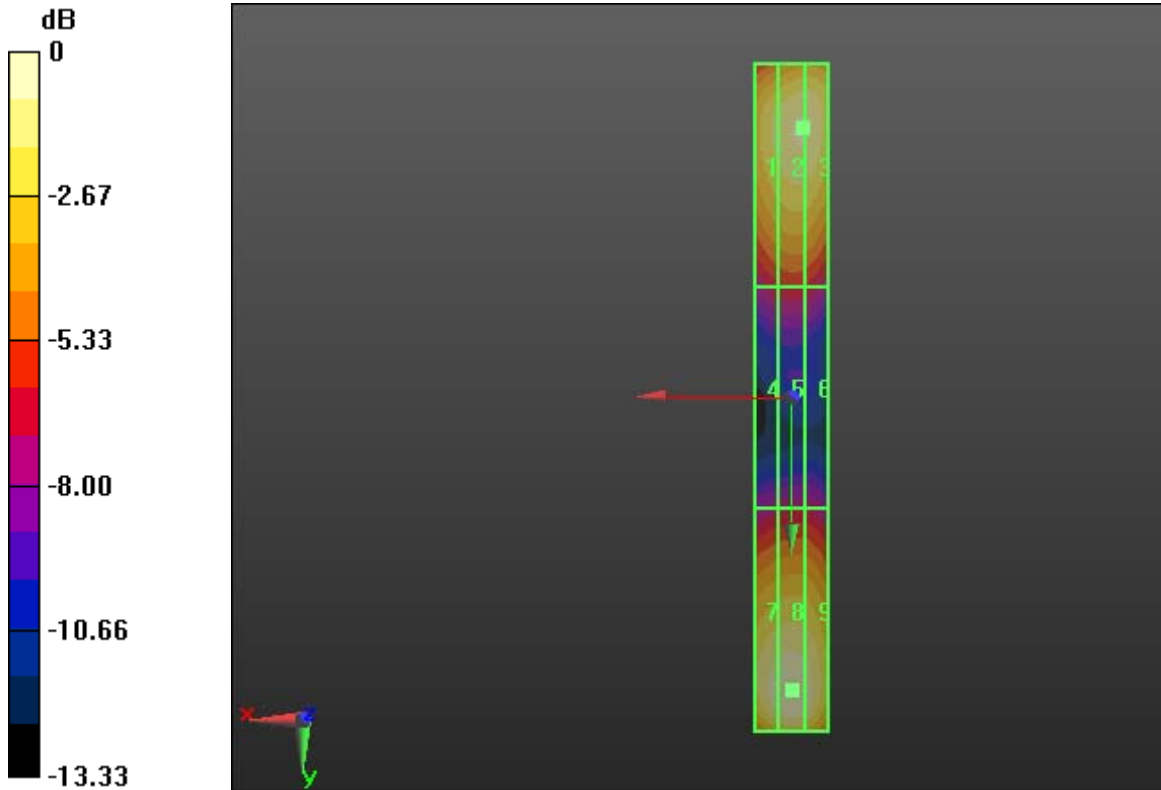
Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
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Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

<b>162.8 V/m</b>	<b>168.4 V/m</b>	<b>161.7 V/m</b>
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**Cursor:**  
 Total = 168.4 V/m  
 E Category: M4  
 Location: 0, 79, 4.7 mm



0 dB = 168.4V/m = 44.53 dB V/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**

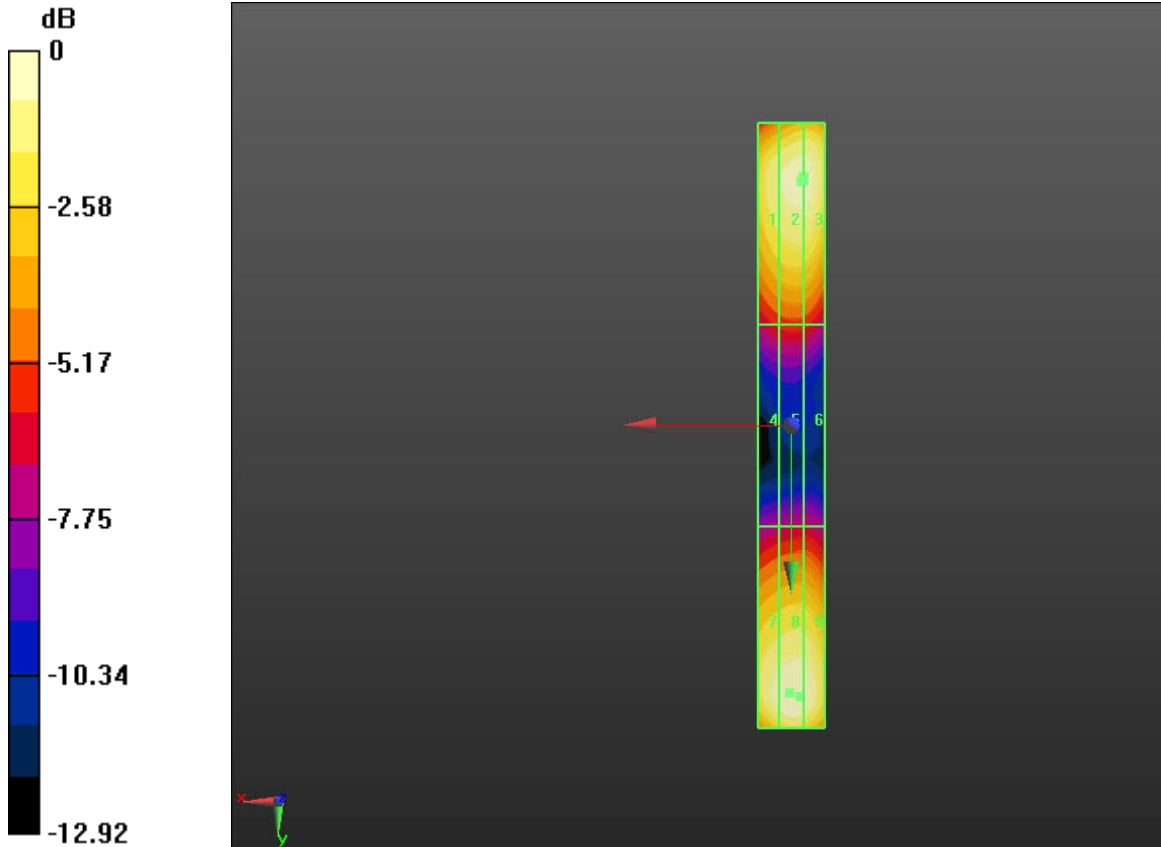
Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
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**L6ARFL110LW  
 L6ARFP120LW**

<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)**





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 L6ARFP120LW**

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>

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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:**

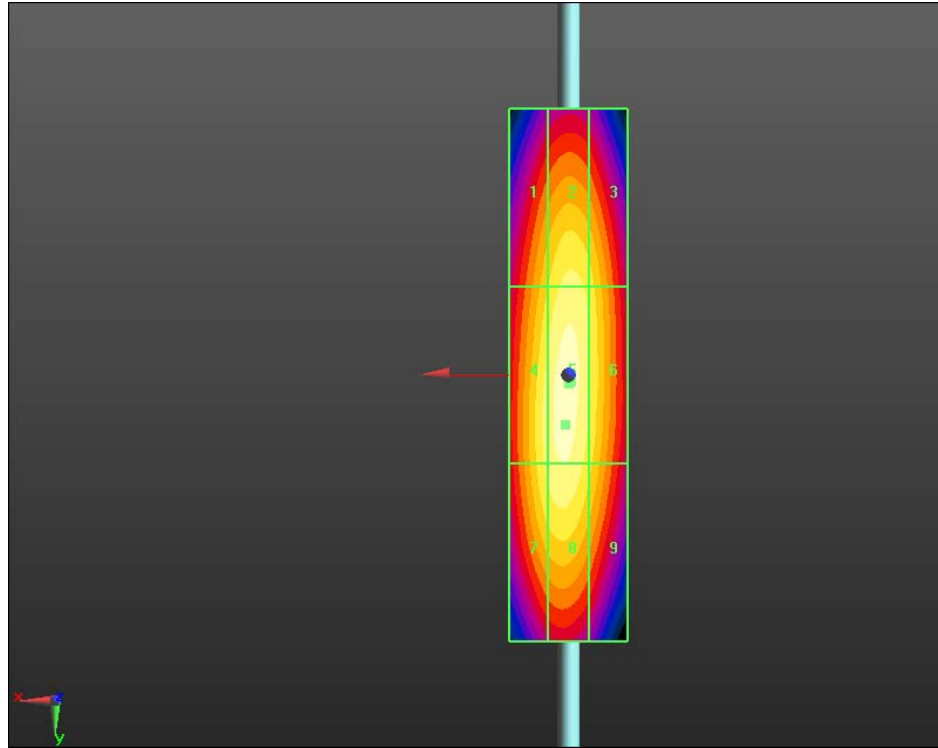
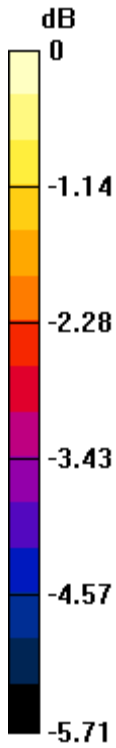
Total = 45.209 V/m  
E Category: M4  
Location: -3, 79.5, 4.7 mm

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
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0 dB = 0.180A/m = -14.89 dB A/m

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Date/Time: 2/13/2013 3:44:13 PM

Test Laboratory: RIM Testing Services

### HAC RF\_E-Field\_validation\_1880 MHz\_02\_13\_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: DAE3 Sn472; Calibrated: 3/7/2012
- 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)

### 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 = 128.1 V/m; Power Drift = 0.09 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 124.4 V/m

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

PMF scaled E-field

Grid 1 <b>M2</b> <b>115.9 V/m</b>	Grid 2 <b>M2</b> <b>124.4 V/m</b>	Grid 3 <b>M2</b> <b>124.3 V/m</b>
Grid 4 <b>M3</b> <b>78.98 V/m</b>	Grid 5 <b>M3</b> <b>83.18 V/m</b>	Grid 6 <b>M3</b> <b>82.53 V/m</b>
Grid 7 <b>M3</b>	Grid 8 <b>M2</b>	Grid 9 <b>M2</b>

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Author Data  
**Daoud Attayi**

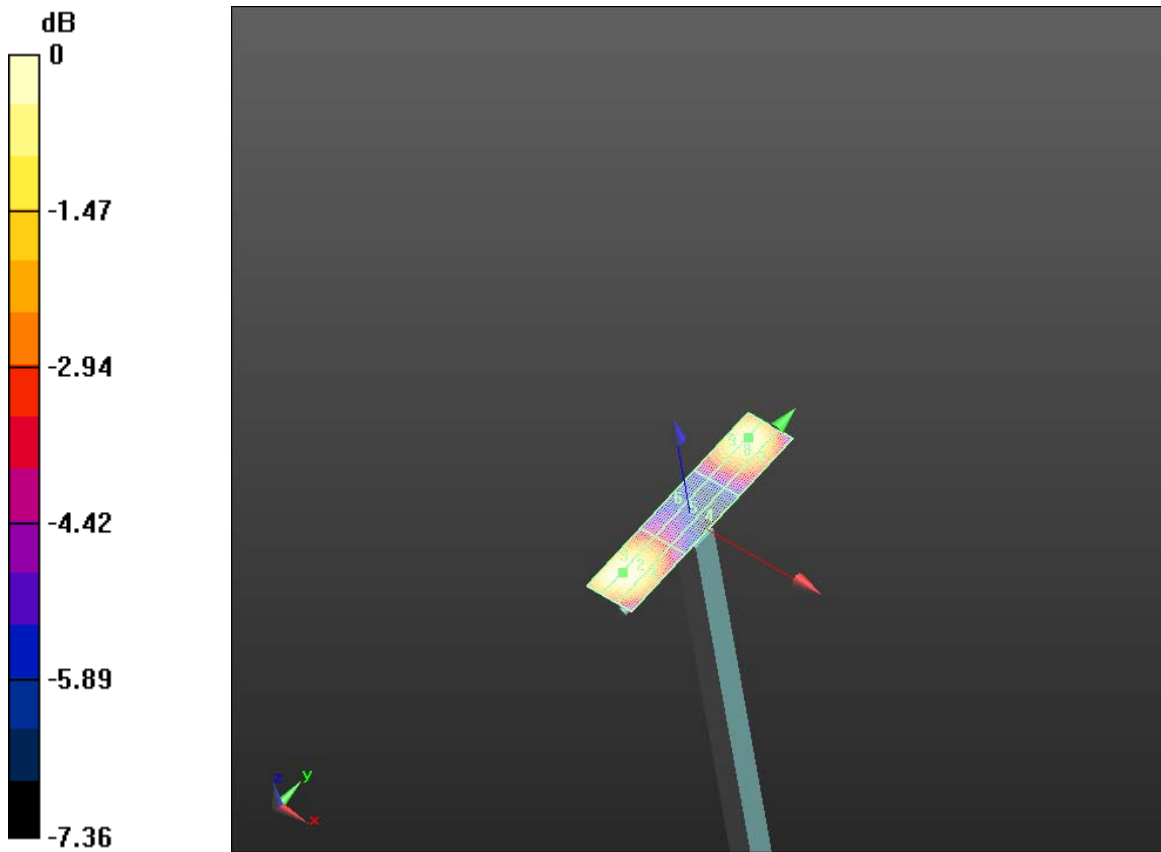
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FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

<b>111.0 V/m</b>	<b>122.5 V/m</b>	<b>122.3 V/m</b>
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**Cursor:**  
 Total = 124.4 V/m  
 E Category: M2  
 Location: -3, -33.5, 4.7 mm



0 dB = 124.4 V/m = 41.90 dBV/m

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Date/Time: 12/17/2012 11:54:55 PM

Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_validation\_1880 MHz\_12\_17\_12**

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

Communication System: CW; 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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 145.2 V/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 128.6 V/m

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

PMF scaled E-field

Grid 1 <b>M2</b> <b>117.2 V/m</b>	Grid 2 <b>M2</b> <b>123.0 V/m</b>	Grid 3 <b>M2</b> <b>122.0 V/m</b>
Grid 4 <b>M3</b> <b>87.82 V/m</b>	Grid 5 <b>M3</b> <b>90.83 V/m</b>	Grid 6 <b>M3</b> <b>89.07 V/m</b>
Grid 7 <b>M2</b>	Grid 8 <b>M2</b>	Grid 9 <b>M2</b>

Author Data  
**Daoud Attayi**

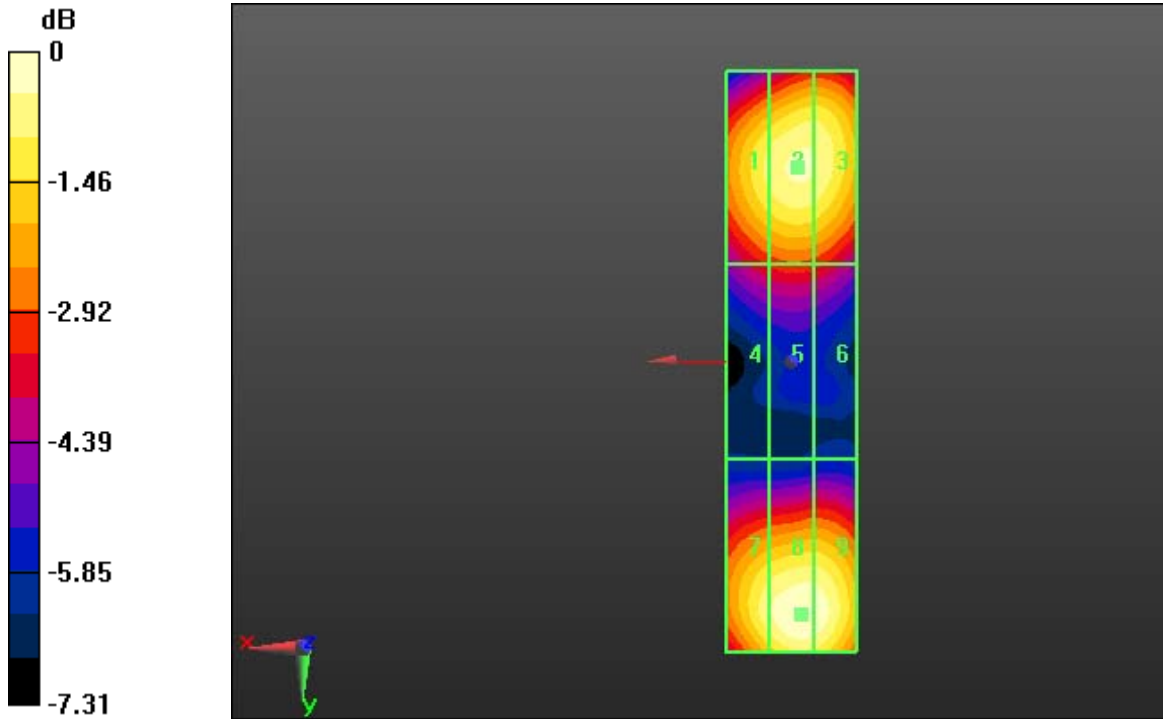
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FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

<b>120.5 V/m</b>	<b>128.6 V/m</b>	<b>127.6 V/m</b>
------------------	------------------	------------------

**Cursor:**  
 Total = 128.6 V/m  
 E Category: M2  
 Location: -1.5, 39, 4.7 mm



0 dB = 128.6V/m = 42.18 dB V/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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**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  
**Daoud Attayi**

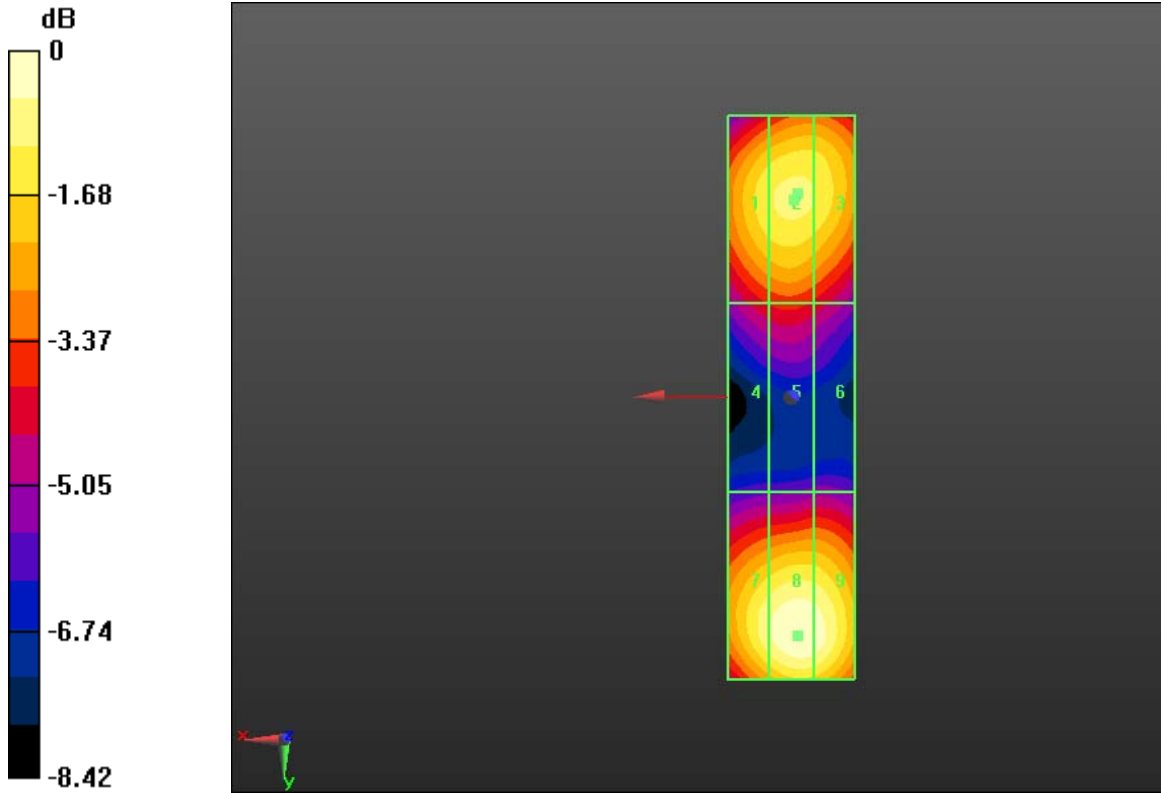
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FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

<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>

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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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**L6ARFL110LW  
 L6ARFP120LW**

PMF scaled E-field

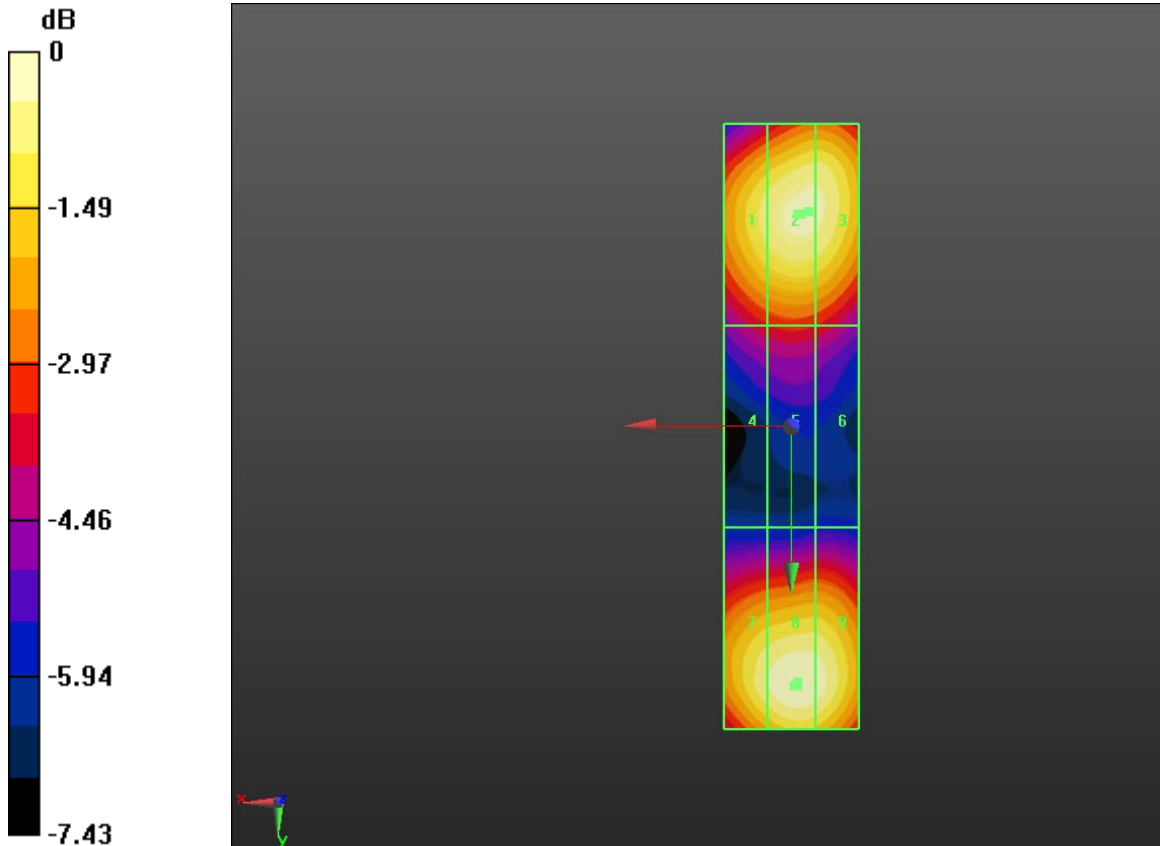
Grid 1 <b>M4</b> <b>49.75 V/m</b>	Grid 2 <b>M4</b> <b>52.55 V/m</b>	Grid 3 <b>M4</b> <b>52.06 V/m</b>
Grid 4 <b>M4</b> <b>35.78 V/m</b>	Grid 5 <b>M4</b> <b>36.92 V/m</b>	Grid 6 <b>M4</b> <b>36.02 V/m</b>
Grid 7 <b>M4</b> <b>50.66 V/m</b>	Grid 8 <b>M4</b> <b>53.60 V/m</b>	Grid 9 <b>M4</b> <b>52.63 V/m</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: DASY5 (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
- DASY52 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)**



Author Data  
**Daoud Attayi**

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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

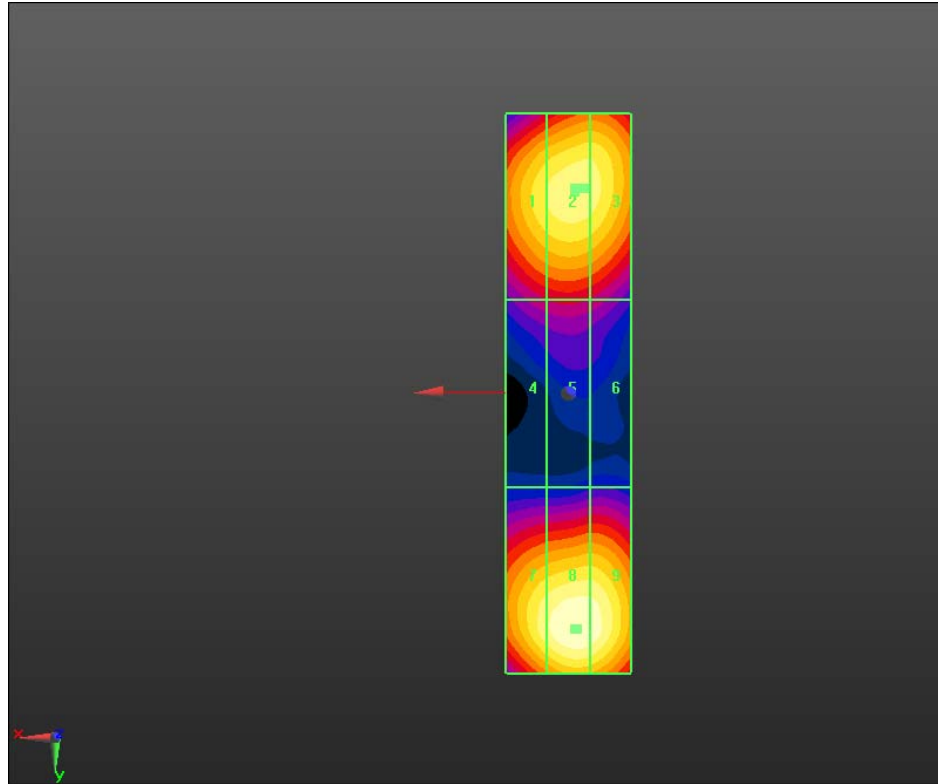
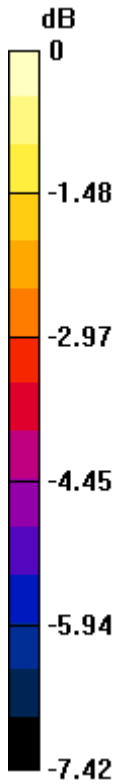


Author Data  
**Daoud Attayi**

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

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Date/Time: 12/18/2012 12:59:09 PM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_validation\_835 MHz\_12\_18\_12

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

Communication System: CW; 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: 11/9/2012
- 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
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

### 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.47 V/m; Power Drift = 0.10 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.44 A/m

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

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.40 A/m</b>	Grid 2 <b>M4</b> <b>0.42 A/m</b>	Grid 3 <b>M4</b> <b>0.41 A/m</b>
Grid 4 <b>M4</b> <b>0.42 A/m</b>	Grid 5 <b>M4</b> <b>0.44 A/m</b>	Grid 6 <b>M4</b> <b>0.43 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

Author Data  
**Daoud Attayi**

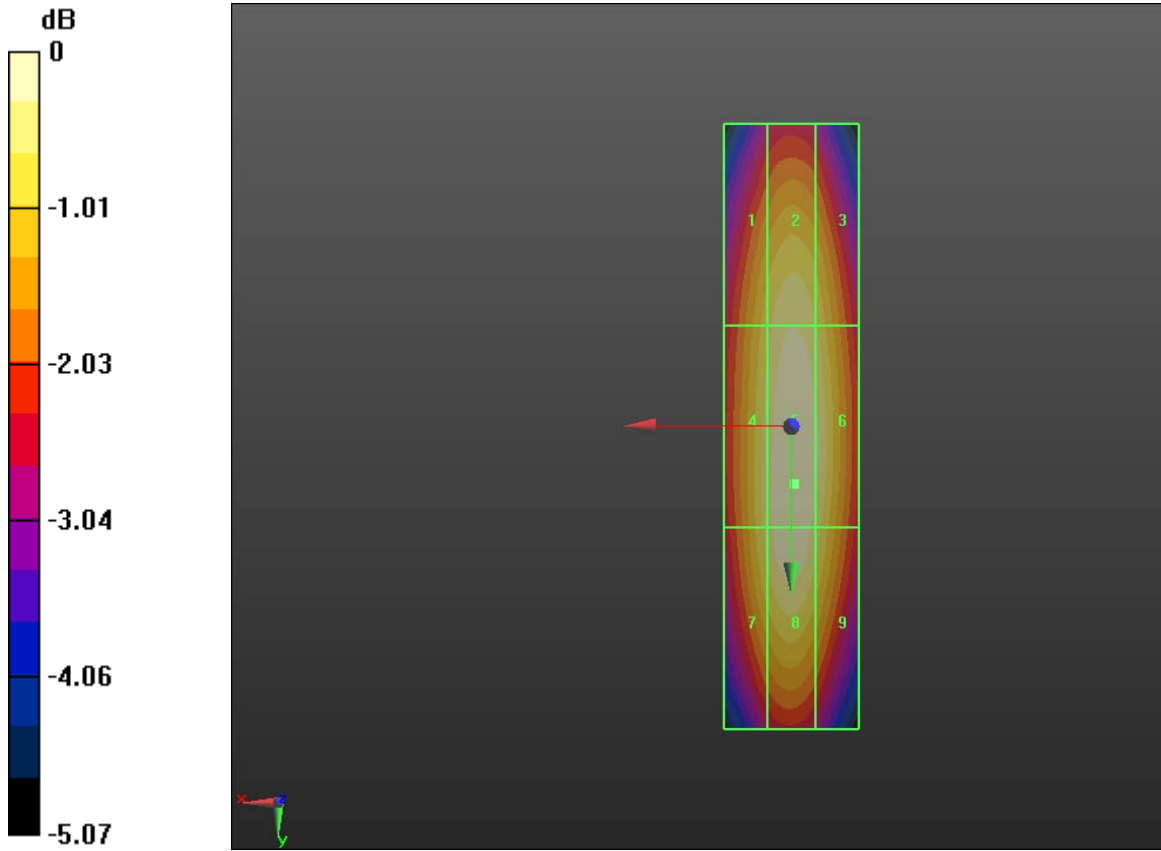
Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

<b>0.42 A/m</b>	<b>0.44 A/m</b>	<b>0.42 A/m</b>
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**Cursor:**  
 Total = 0.444 A/m  
 H Category: M4  
 Location: -0.5, 8.5, 4.7 mm



0 dB = 0.440A/m = -7.13 dB A/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)**

Author Data  
**Daoud Attayi**

Dates of Test  
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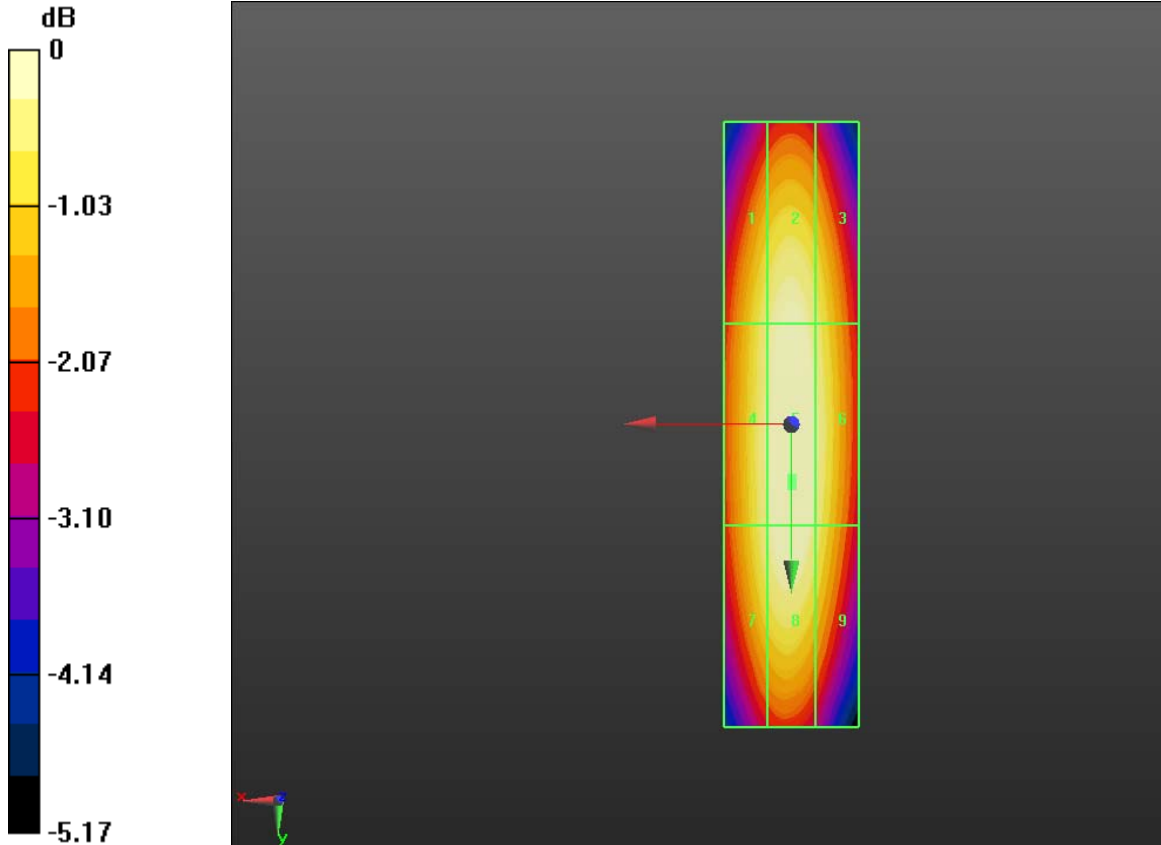
Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

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)**



Author Data  
**Daoud Attayi**

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Report No  
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FCC ID  
**L6ARFL110LW  
L6ARFP120LW**

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>



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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:**

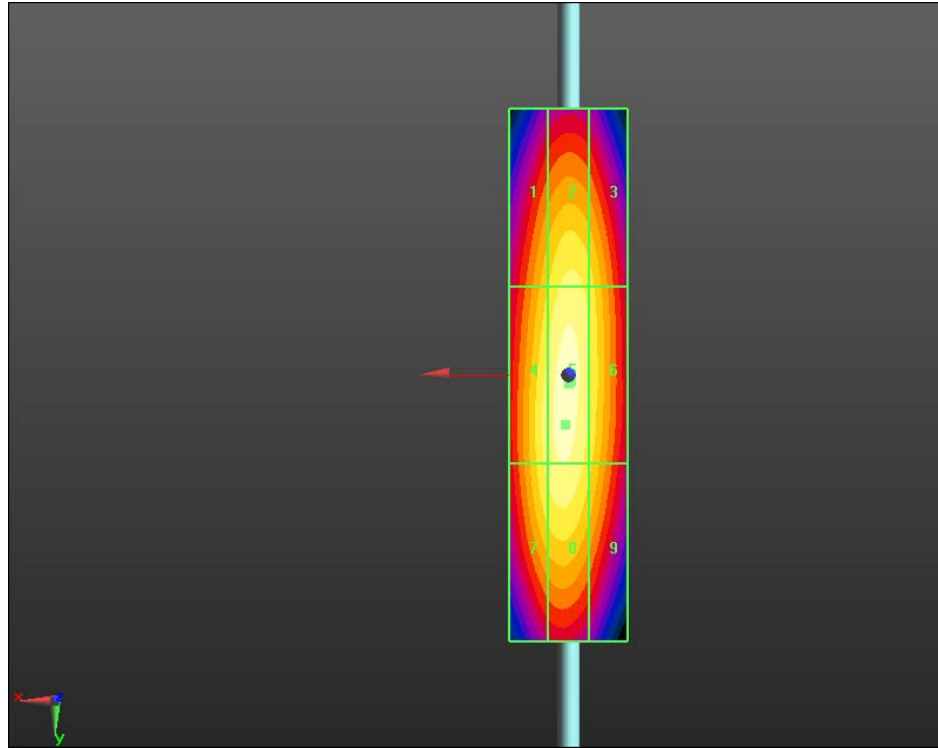
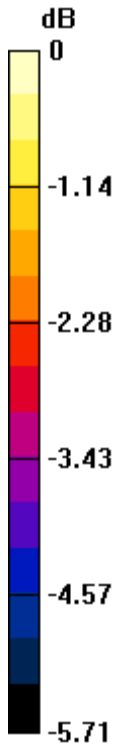
Total = 0.127 A/m  
H Category: M4  
Location: 0, 1.5, 4.7 mm

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
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**L6ARFL110LW  
 L6ARFP120LW**



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

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**HAC RF\_H-Field\_validation\_1880 MHz\_02\_14\_13**

**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 = 0.4750 A/m; Power Drift = -0.09 dB

PMR not calibrated. PMF = 0.00001122 is applied.

H-field emissions = 0.000004985 A/m

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

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.000 A/m</b>	Grid 2 <b>M4</b> <b>0.000 A/m</b>	Grid 3 <b>M4</b> <b>0.000 A/m</b>
Grid 4 <b>M4</b> <b>0.000 A/m</b>	Grid 5 <b>M4</b> <b>0.000 A/m</b>	Grid 6 <b>M4</b> <b>0.000 A/m</b>
Grid 7 <b>M4</b> <b>0.000 A/m</b>	Grid 8 <b>M4</b> <b>0.000 A/m</b>	Grid 9 <b>M4</b> <b>0.000 A/m</b>

**Cursor:**

Total = 0.000004985 A/m

H Category: M4

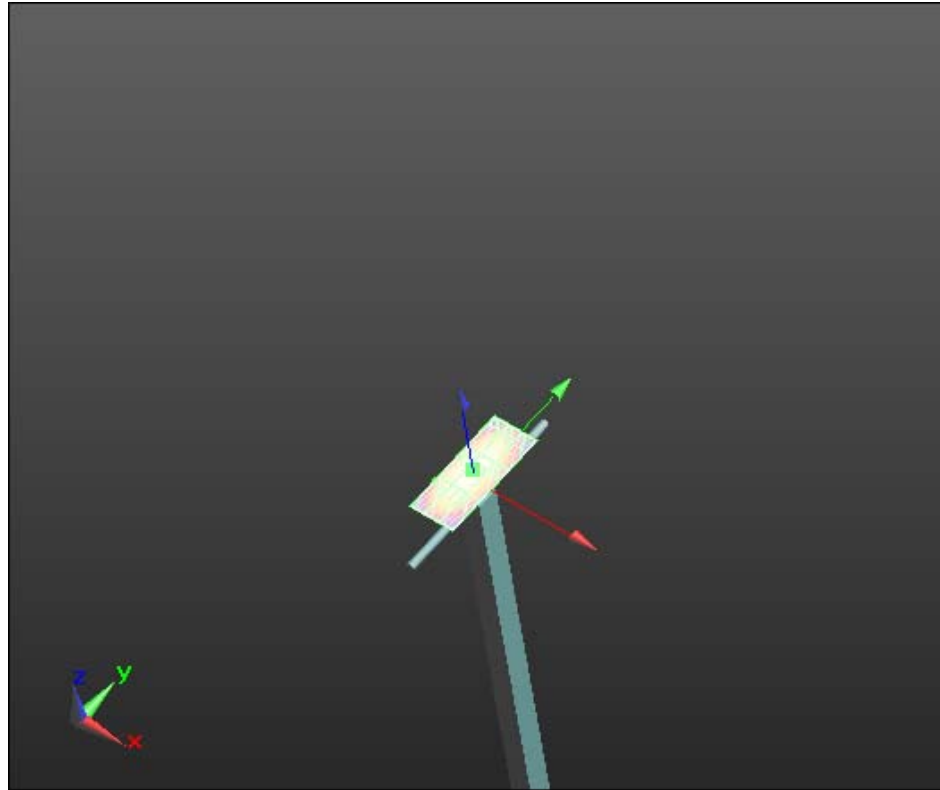
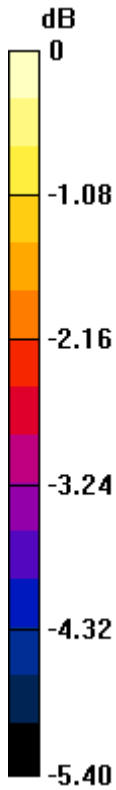
Location: -1, 1, 4.7 mm

Author Data  
**Daoud Attayi**

Dates of Test  
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L6ARFP120LW**



0 dB = 0.000004985 A/m = -106.05 dBA/m

SEMCAD X Version 14.6.8 (7028)

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Date/Time: 12/18/2012 1:06:37 PM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_validation\_1880 MHz\_12\_18\_12

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

Communication System: CW; 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: 11/9/2012
- 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;
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

### 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.47 V/m; Power Drift = -0.04 dB

PMF = 1.00 is applied.

H-field emissions = 0.446 A/m

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

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.411 A/m</b>	Grid 2 <b>M4</b> <b>0.429 A/m</b>	Grid 3 <b>M4</b> <b>0.420 A/m</b>
Grid 4 <b>M4</b> <b>0.429 A/m</b>	Grid 5 <b>M4</b> <b>0.446 A/m</b>	Grid 6 <b>M4</b> <b>0.429 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

Author Data  
**Daoud Attayi**

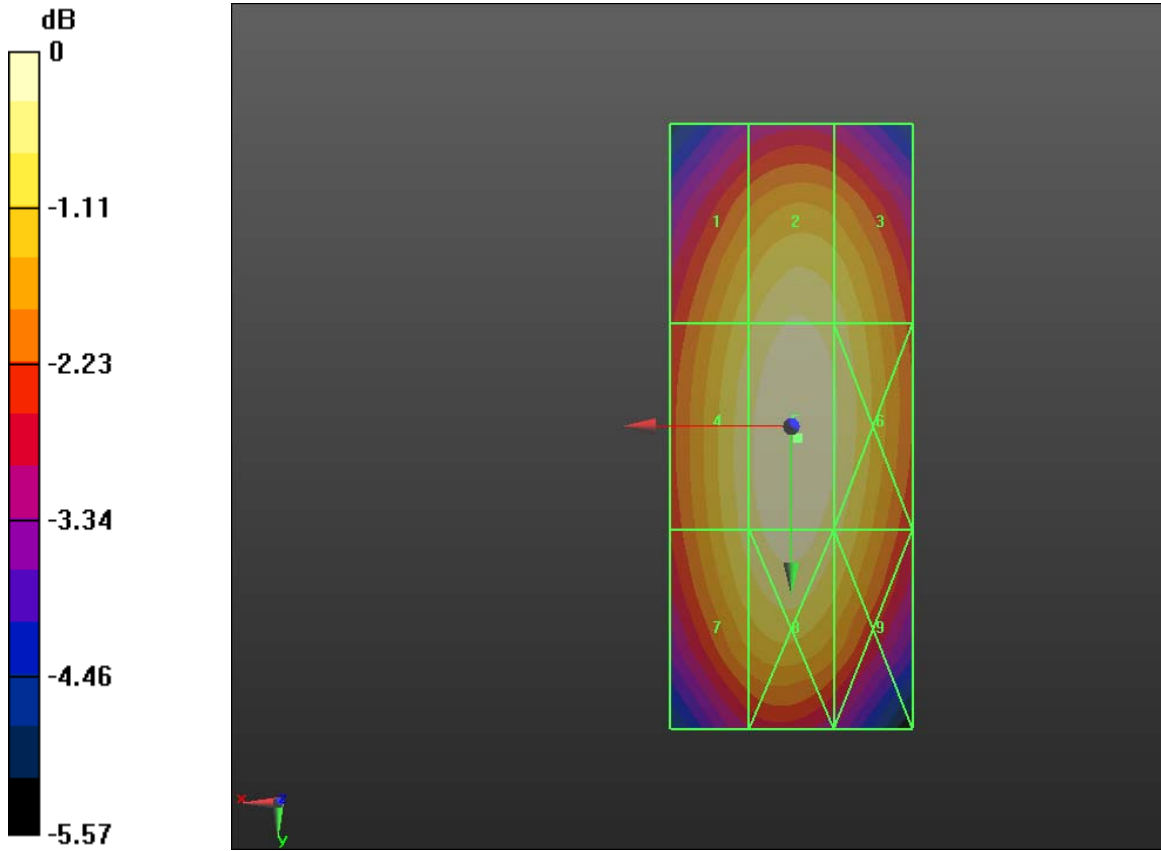
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Report No  
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FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

<b>0.420 A/m</b>	<b>0.438 A/m</b>	<b>0.420 A/m</b>
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**Cursor:**  
 Total = 0.446 A/m  
 H Category: M4  
 Location: -0.5, 1, 4.7 mm



0 dB = 0.446A/m = -7.01 dB A/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>



Author Data <b>Daoud Attayi</b>	Dates of Test <b>Feb. 17, June 28, Dec. 17-19, 2012 Feb. 13-14, 2013</b>	Report No <b>RTS-6026-1302-07</b>	FCC ID <b>L6ARFL110LW L6ARFP120LW</b>
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<b>0.14 A/m</b>	<b>0.15 A/m</b>	<b>0.14 A/m</b>
-----------------	-----------------	-----------------

**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  
**Daoud Attayi**

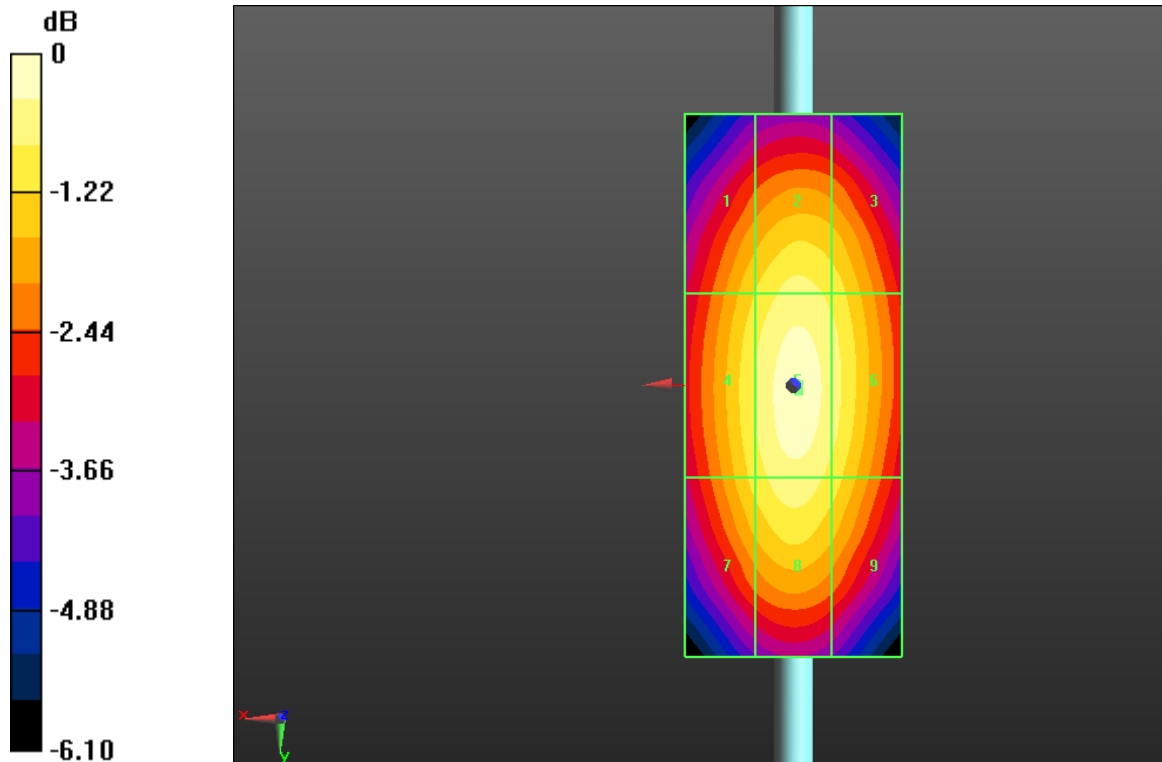
Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

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**RTS-6026-1302-07**

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**L6ARFL110LW  
 L6ARFP120LW**

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: 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 Sn473; Calibrated: 1/13/2012
- 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 -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>



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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  
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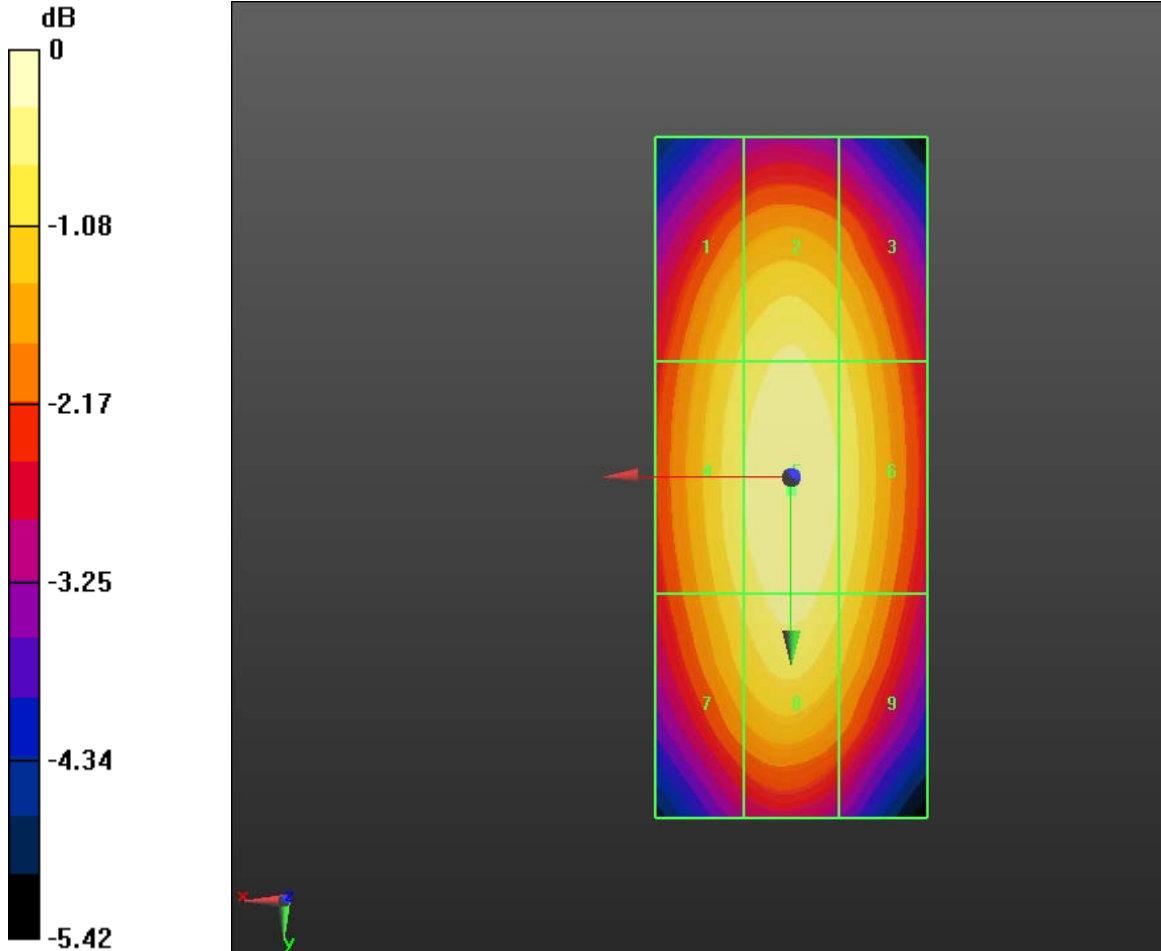
Report No  
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 L6ARFP120LW**

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
- DASYS2 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)**

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>

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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:**

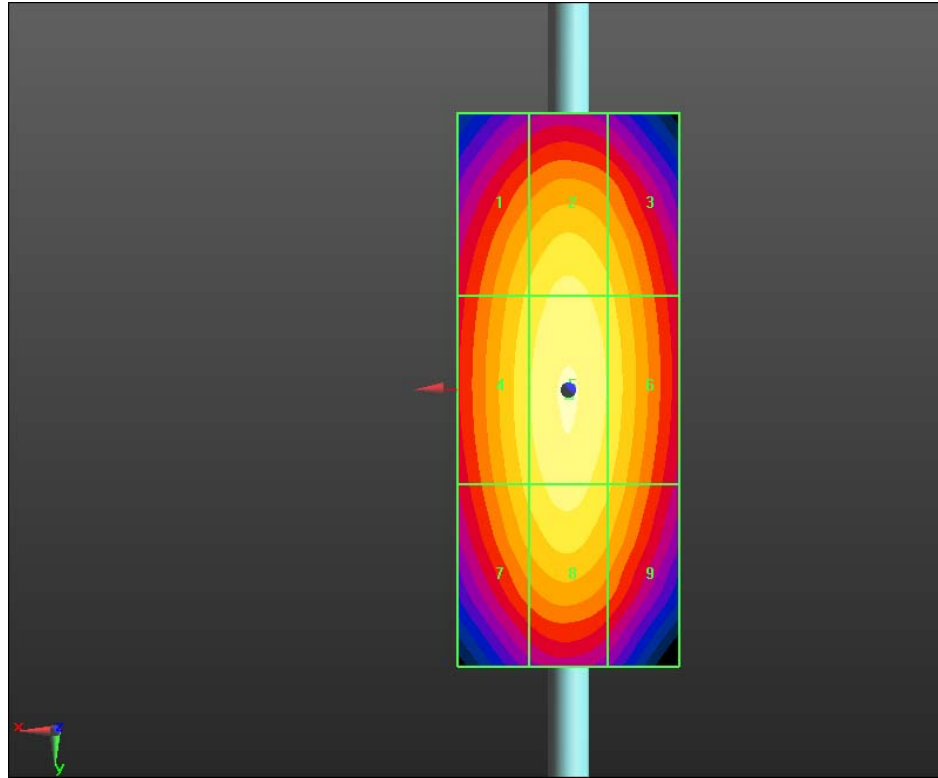
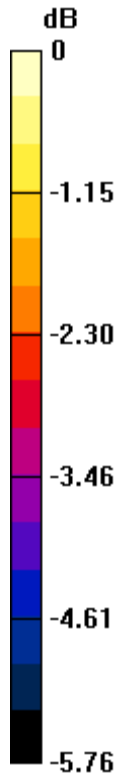
Total = 0.096 A/m  
H Category: M4  
Location: 0, 0, 4.7 mm

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
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Report No  
**RTS-6026-1302-07**

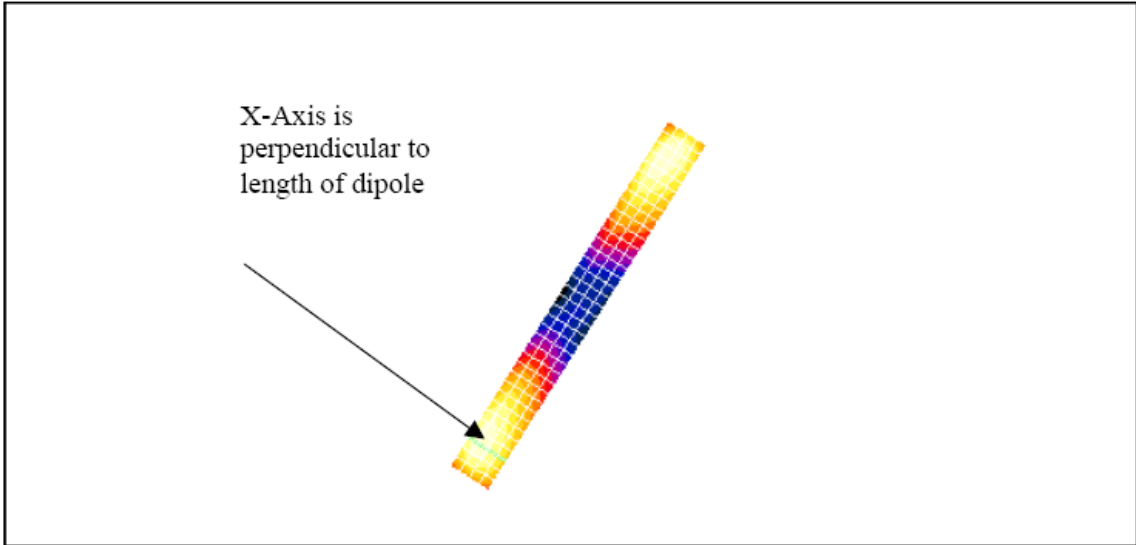
FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**



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



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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**

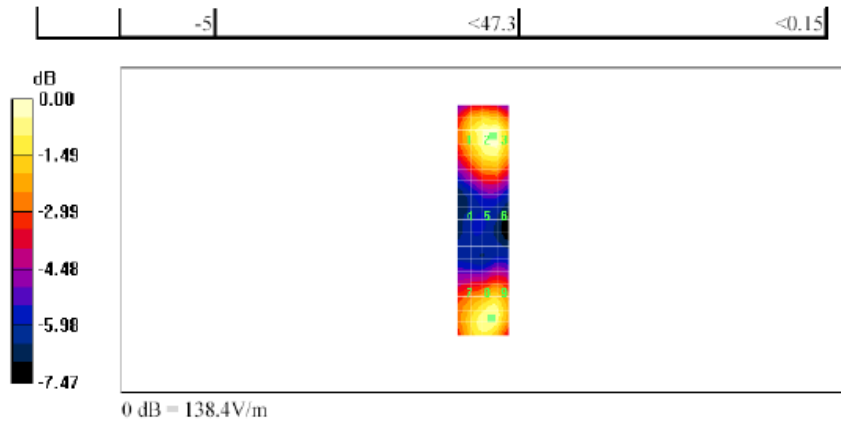
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**Lab: RIM Testing Services (RTS)**

**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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**Daoud Attayi**

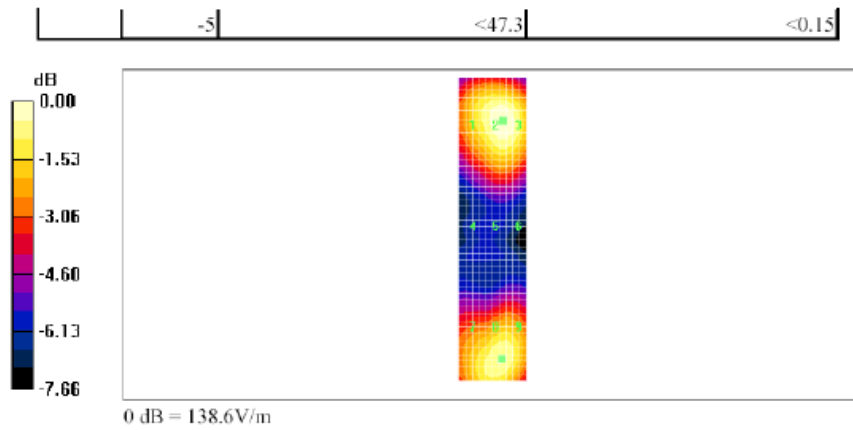
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**Lab: RIM Testing Services (RTS)**

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



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**Daoud Attayi**

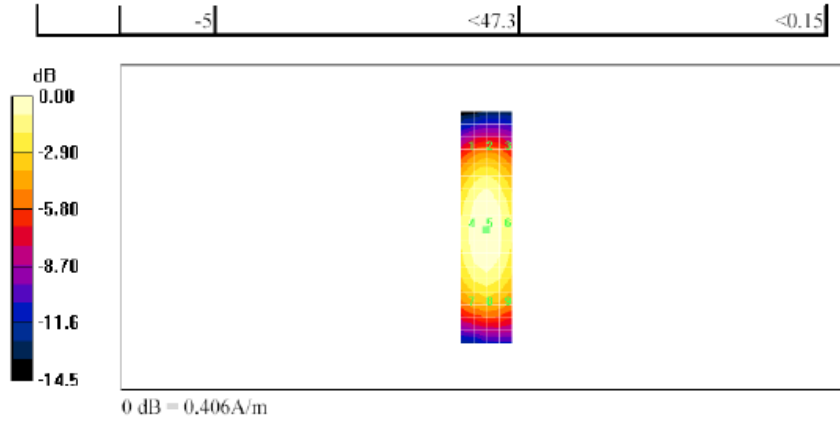
Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
Feb. 13-14, 2013**

Report No  
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**L6ARFL110LW  
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file://C:\Program%20Files\DASY4\Print\_Templates\HAC\_H\_Dipole\_CW%201880\_5%... 14/07/2005

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

**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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**Daoud Attayi**

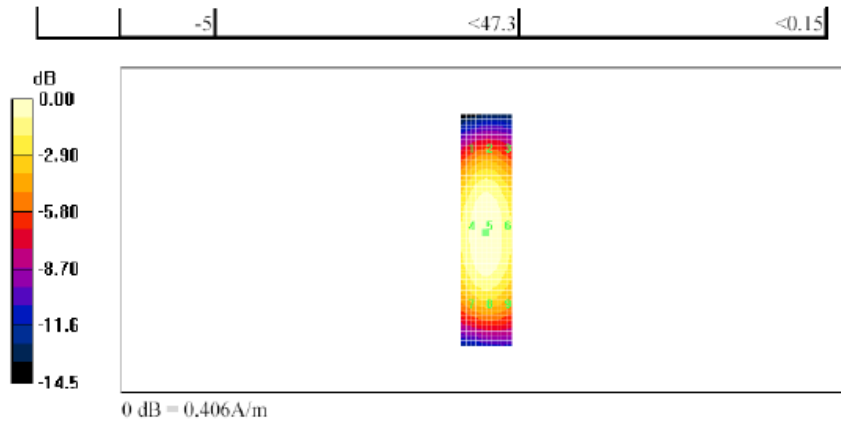
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### A.3 RF emission field plots

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Date/Time: 12/18/2012 2:22:34 AM

Test Laboratory: RIM Testing Services

### HAC RF\_E-Field\_GSM850

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9**

Communication System: GSM 850; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 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 = 8.7
- 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)

### 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 90.20 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 226.1 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>194.7 V/m</b>	Grid 2 <b>M3</b> <b>219.1 V/m</b>	Grid 3 <b>M3</b> <b>218.1 V/m</b>
Grid 4 <b>M3</b> <b>196.9 V/m</b>	Grid 5 <b>M3</b> <b>226.1 V/m</b>	Grid 6 <b>M3</b> <b>225.1 V/m</b>

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Grid 7 <b>M3</b> <b>196.0 V/m</b>	Grid 8 <b>M3</b> <b>223.9 V/m</b>	Grid 9 <b>M3</b> <b>222.0 V/m</b>
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**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):** Measurement grid: dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 89.43 V/m; Power Drift = 0.03 dB  
 PMR not calibrated. PMF = 3.000 is applied.  
 E-field emissions = 230.7 V/m  
**Near-field category: M3 (AWF -5 dB)**

PMF scaled E-field

Grid 1 <b>M3</b> <b>184.5 V/m</b>	Grid 2 <b>M3</b> <b>219.1 V/m</b>	Grid 3 <b>M3</b> <b>218.9 V/m</b>
Grid 4 <b>M3</b> <b>192.4 V/m</b>	Grid 5 <b>M3</b> <b>230.7 V/m</b>	Grid 6 <b>M3</b> <b>230.4 V/m</b>
Grid 7 <b>M3</b> <b>198.6 V/m</b>	Grid 8 <b>M3</b> <b>230.4 V/m</b>	Grid 9 <b>M3</b> <b>230.0 V/m</b>

**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):** Measurement grid: dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 84.58 V/m; Power Drift = -0.08 dB  
 PMR not calibrated. PMF = 3.000 is applied.  
 E-field emissions = 212.9 V/m  
**Near-field category: M3 (AWF -5 dB)**

PMF scaled E-field

Grid 1 <b>M3</b> <b>174.6 V/m</b>	Grid 2 <b>M3</b> <b>205.9 V/m</b>	Grid 3 <b>M3</b> <b>205.9 V/m</b>
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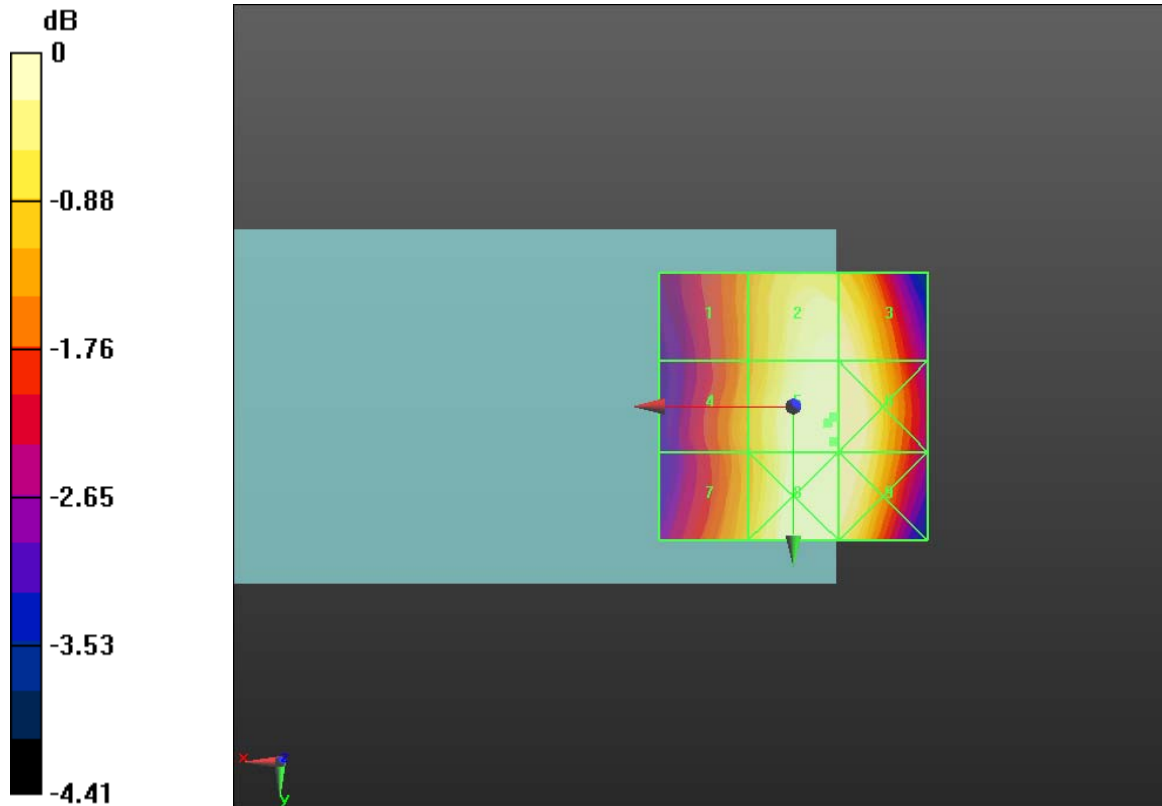
Author Data  
**Daoud Attayi**

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Grid 4 <b>M3</b> <b>179.4 V/m</b>	Grid 5 <b>M3</b> <b>212.9 V/m</b>	Grid 6 <b>M3</b> <b>212.7 V/m</b>
Grid 7 <b>M3</b> <b>182.2 V/m</b>	Grid 8 <b>M3</b> <b>211.9 V/m</b>	Grid 9 <b>M3</b> <b>211.2 V/m</b>



0 dB = 217.1V/m = 46.73 dB V/m

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Date/Time: 12/18/2012 9:57:48 PM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9**

Communication System: GSM 850; Frequency: 836.8 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 = 8.7
- 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)

### 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):

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 85.88 V/m; Power Drift = -0.08 dB

PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 217.7 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>164.6 V/m</b>	Grid 2 <b>M3</b> <b>203.7 V/m</b>	Grid 3 <b>M3</b> <b>204.8 V/m</b>
Grid 4 <b>M3</b> <b>172.6 V/m</b>	Grid 5 <b>M3</b> <b>217.7 V/m</b>	Grid 6 <b>M3</b> <b>220.7 V/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**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

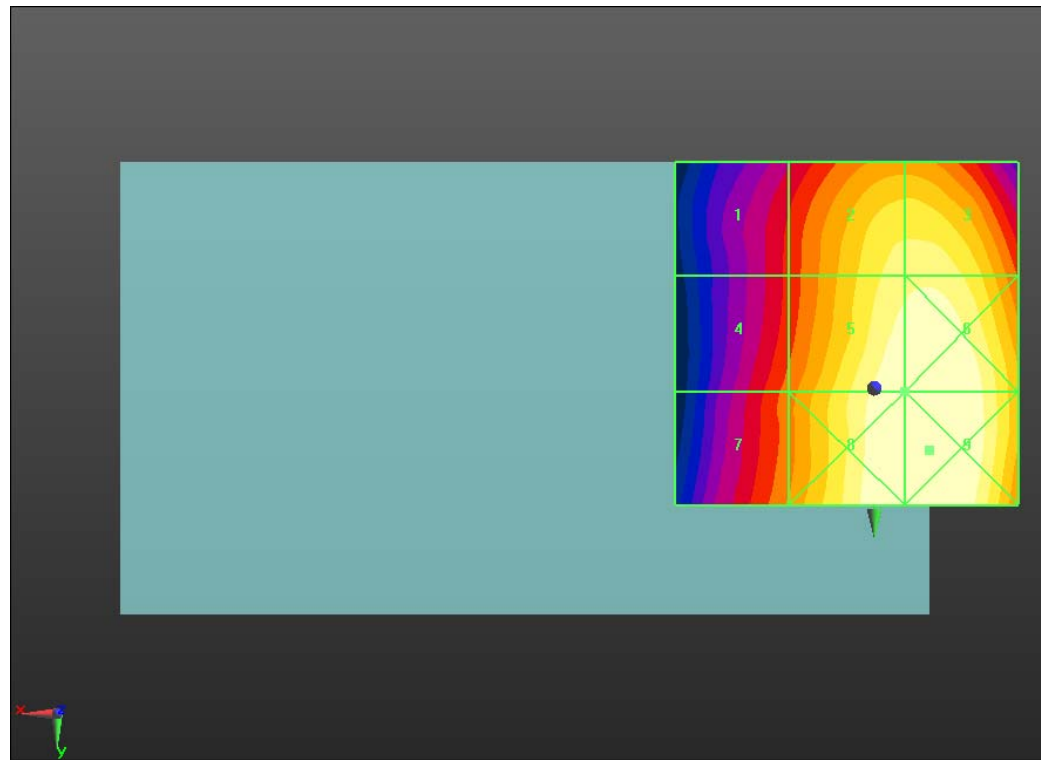
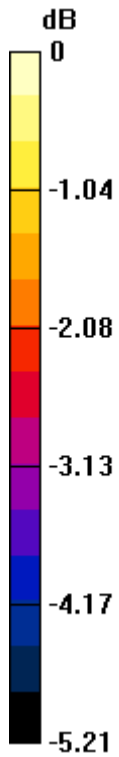
Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**


**177.1 V/m**

**221.6 V/m**

**223.6 V/m**



0 dB = 214.8V/m = 46.64 dB V/m

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Date/Time: 12/18/2012 3:13:16 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz, Frequency: 836.4 MHz, Frequency: 846.6 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 = 8.7
- 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)

### 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 74.08 V/m; Power Drift = 0.09 dB

PMR not calibrated. PMF = 1.070 is applied.


E-field emissions = 66.01 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>58.85 V/m</b>	Grid 2 <b>M4</b> <b>65.32 V/m</b>	Grid 3 <b>M4</b> <b>65.33 V/m</b>
Grid 4 <b>M4</b> <b>57.72 V/m</b>	Grid 5 <b>M4</b> <b>66.01 V/m</b>	Grid 6 <b>M4</b> <b>66.01 V/m</b>



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Grid 7 <b>M4</b> <b>56.79 V/m</b>	Grid 8 <b>M4</b> <b>64.64 V/m</b>	Grid 9 <b>M4</b> <b>64.64 V/m</b>
--------------------------------------	--------------------------------------	--------------------------------------

**Cursor:**  
Total = 66.014 V/m  
E Category: M4  
Location: -8.5, -0.5, 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):** Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 80.46 V/m; Power Drift = -0.07 dB  
PMR not calibrated. PMF = 1.070 is applied.  
E-field emissions = 72.82 V/m  
**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>61.67 V/m</b>	Grid 2 <b>M4</b> <b>70.80 V/m</b>	Grid 3 <b>M4</b> <b>70.74 V/m</b>
Grid 4 <b>M4</b> <b>61.29 V/m</b>	Grid 5 <b>M4</b> <b>72.82 V/m</b>	Grid 6 <b>M4</b> <b>72.75 V/m</b>
Grid 7 <b>M4</b> <b>60.71 V/m</b>	Grid 8 <b>M4</b> <b>72.25 V/m</b>	Grid 9 <b>M4</b> <b>72.16 V/m</b>

**Cursor:**  
Total = 72.817 V/m  
E Category: M4  
Location: -7.5, 3, 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):** Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 91.96 V/m; Power Drift = -0.06 dB  
PMR not calibrated. PMF = 1.070 is applied.  
E-field emissions = 82.86 V/m  
**Near-field category: M4 (AWF 0 dB)**

Author Data  
**Daoud Attayi**

Dates of Test  
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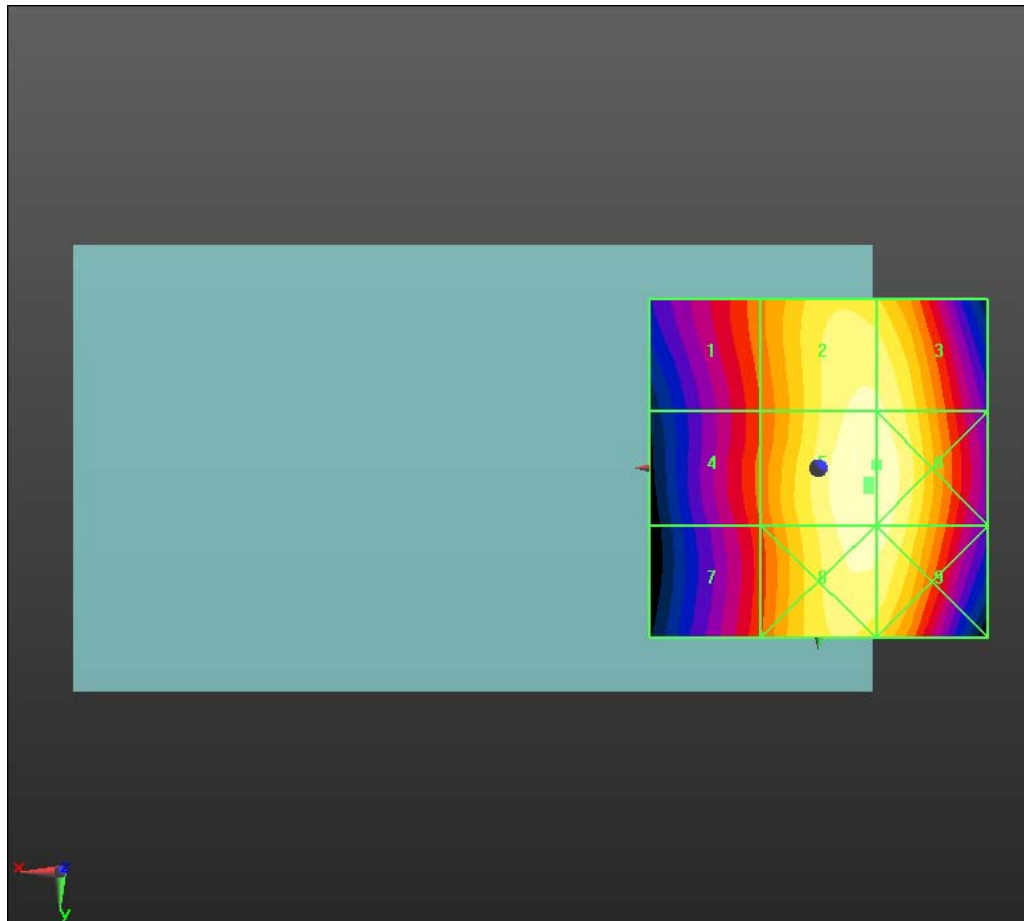
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PMF scaled E-field

Grid 1 <b>M4</b> <b>70.14 V/m</b>	Grid 2 <b>M4</b> <b>80.95 V/m</b>	Grid 3 <b>M4</b> <b>80.84 V/m</b>
Grid 4 <b>M4</b> <b>69.50 V/m</b>	Grid 5 <b>M4</b> <b>82.86 V/m</b>	Grid 6 <b>M4</b> <b>82.79 V/m</b>
Grid 7 <b>M4</b> <b>68.39 V/m</b>	Grid 8 <b>M4</b> <b>81.91 V/m</b>	Grid 9 <b>M4</b> <b>81.74 V/m</b>

**Cursor:**  
 Total = 82.860 V/m  
 E Category: M4  
 Location: -7.5, 2, 8.7 mm



0 dB = 66.010V/m = 36.39 dB V/m

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Date/Time: 12/18/2012 9:18:12 PM

Test Laboratory: RIM Testing Services

### HAC RF\_E-Field\_GSM1900

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9**

Communication System: GSM 1900; Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8 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 = 8.7
- 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)

### 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 9.55 V/m; Power Drift = 0.09 dB


PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 75.53 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>73.08 V/m</b>	Grid 2 <b>M3</b> <b>75.53 V/m</b>	Grid 3 <b>M3</b> <b>71.21 V/m</b>
Grid 4 <b>M4</b>	Grid 5 <b>M3</b>	Grid 6 <b>M3</b>

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<b>39.39 V/m</b>	<b>57.24 V/m</b>	<b>62.08 V/m</b>
Grid 7 <b>M3</b> <b>71.64 V/m</b>	Grid 8 <b>M2</b> <b>91.79 V/m</b>	Grid 9 <b>M2</b> <b>91.66 V/m</b>

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 10.82 V/m; Power Drift = 0.00 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 72.72 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>69.84 V/m</b>	Grid 2 <b>M3</b> <b>72.72 V/m</b>	Grid 3 <b>M3</b> <b>70.39 V/m</b>
Grid 4 <b>M4</b> <b>41.04 V/m</b>	Grid 5 <b>M3</b> <b>48.81 V/m</b>	Grid 6 <b>M3</b> <b>57.10 V/m</b>
Grid 7 <b>M3</b> <b>60.61 V/m</b>	Grid 8 <b>M3</b> <b>83.50 V/m</b>	Grid 9 <b>M3</b> <b>83.49 V/m</b>

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 15.42 V/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 71.79 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b>	Grid 2 <b>M3</b>	Grid 3 <b>M3</b>
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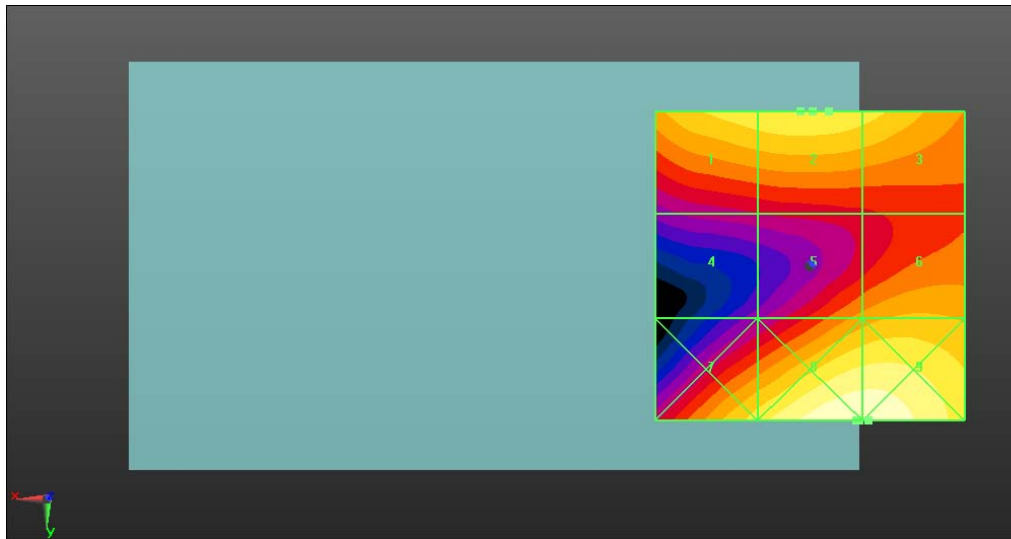
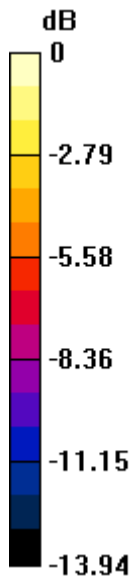
Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
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Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

<b>65.76 V/m</b>	<b>71.79 V/m</b>	<b>70.47 V/m</b>
Grid 4 <b>M4</b> <b>45.63 V/m</b>	Grid 5 <b>M3</b> <b>48.56 V/m</b>	Grid 6 <b>M3</b> <b>48.98 V/m</b>
Grid 7 <b>M3</b> <b>52.28 V/m</b>	Grid 8 <b>M3</b> <b>72.69 V/m</b>	Grid 9 <b>M3</b> <b>72.77 V/m</b>



0 dB = 92.790V/m = 39.35 dB V/m

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Date/Time: 12/18/2012 9:33:03 PM

Test Laboratory: RIM Testing Services

### HAC RF\_E-Field\_GSM1900\_Telecoil

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9**

Communication System: GSM 1900; Frequency: 1850.2 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 = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

### 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):

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 9.32 V/m; Power Drift = 0.11 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 75.93 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>80.76 V/m</b>	Grid 2 <b>M2</b> <b>86.22 V/m</b>	Grid 3 <b>M3</b> <b>83.62 V/m</b>
Grid 4 <b>M3</b> <b>52.85 V/m</b>	Grid 5 <b>M3</b> <b>56.62 V/m</b>	Grid 6 <b>M3</b> <b>55.54 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M3</b>	Grid 9 <b>M3</b>

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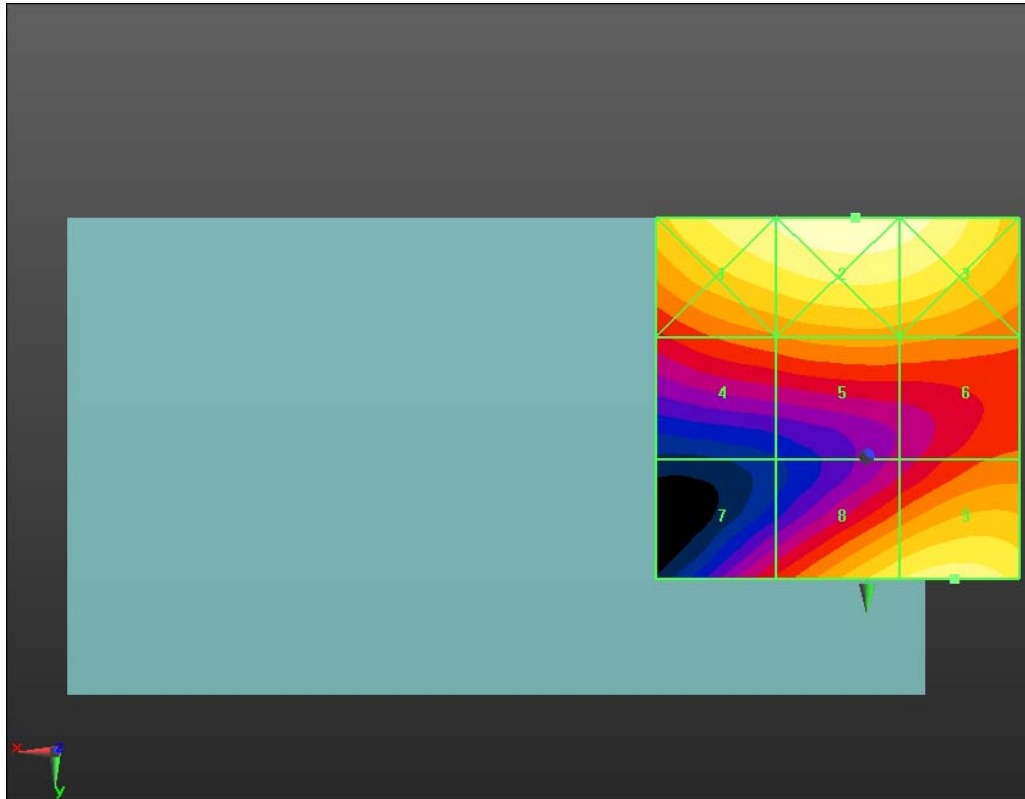
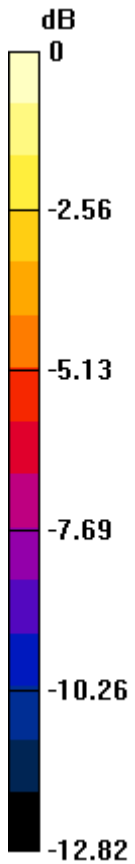
Author Data  
**Daoud Attayi**

Dates of Test  
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 Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

<b>45.36 V/m</b>	<b>71.55 V/m</b>	<b>75.93 V/m</b>
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0 dB = 87.160V/m = 38.81 dB V/m

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Date/Time: 12/19/2012 12:14:23 AM

Test Laboratory: RIM Testing Services

### HAC RF\_E-Field\_GSM\_1900\_Telecoil\_2100\_Battery

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9**

Communication System: GSM 1900; Frequency: 1850.2 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: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface),  $z = 8.7$
- 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)

### Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device\_Low\_Chan\_telecoil\_2100\_Battery/Hearing Aid

**Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 9.84 V/m; Power Drift = 0.15 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 77.92 V/m

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

PMF scaled E-field

Grid 1 <b>M2</b> <b>84.17 V/m</b>	Grid 2 <b>M2</b> <b>86.39 V/m</b>	Grid 3 <b>M3</b> <b>82.54 V/m</b>
Grid 4 <b>M3</b> <b>54.21 V/m</b>	Grid 5 <b>M3</b> <b>55.50 V/m</b>	Grid 6 <b>M3</b> <b>54.43 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M3</b>	Grid 9 <b>M3</b>

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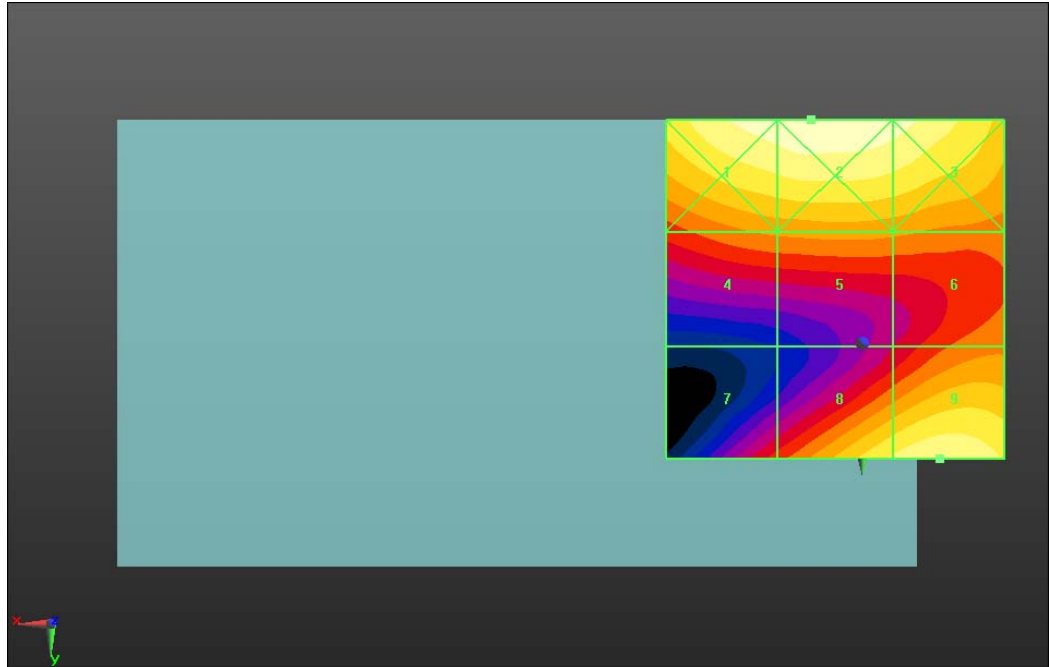
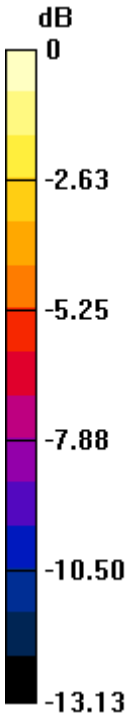
Author Data  
**Daoud Attayi**

Dates of Test  
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 Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

<b>46.09 V/m</b>	<b>72.64 V/m</b>	<b>77.92 V/m</b>
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0 dB = 87.330V/m = 38.82 dB V/m

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Date/Time: 12/18/2012 3:34:29 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9**

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz, Frequency: 1880 MHz, Frequency: 1907.6 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 = 8.7
- 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)

### 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 10.50 V/m; Power Drift = 0.15 dB


PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 30.64 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>29.21 V/m</b>	Grid 2 <b>M4</b> <b>30.64 V/m</b>	Grid 3 <b>M4</b> <b>28.46 V/m</b>
Grid 4 <b>M4</b> <b>15.54 V/m</b>	Grid 5 <b>M4</b> <b>20.94 V/m</b>	Grid 6 <b>M4</b> <b>22.58 V/m</b>

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Grid 7 <b>M4</b> <b>27.17 V/m</b>	Grid 8 <b>M4</b> <b>34.59 V/m</b>	Grid 9 <b>M4</b> <b>34.44 V/m</b>
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**Cursor:**  
Total = 34.586 V/m  
E Category: M4  
Location: -6.5, 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):** Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 13.75 V/m; Power Drift = 0.04 dB  
PMR not calibrated. PMF = 1.000 is applied.  
E-field emissions = 32.04 V/m  
**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M4</b> <b>30.18 V/m</b>	Grid 2 <b>M4</b> <b>32.04 V/m</b>	Grid 3 <b>M4</b> <b>30.66 V/m</b>
Grid 4 <b>M4</b> <b>17.83 V/m</b>	Grid 5 <b>M4</b> <b>19.86 V/m</b>	Grid 6 <b>M4</b> <b>23.27 V/m</b>
Grid 7 <b>M4</b> <b>24.29 V/m</b>	Grid 8 <b>M4</b> <b>34.52 V/m</b>	Grid 9 <b>M4</b> <b>34.52 V/m</b>

**Cursor:**  
Total = 34.517 V/m  
E Category: M4  
Location: -8.5, 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):** Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 19.16 V/m; Power Drift = -0.03 dB  
PMR not calibrated. PMF = 1.000 is applied.  
E-field emissions = 31.28 V/m  
**Near-field category: M4 (AWF 0 dB)**

Author Data  
**Daoud Attayi**

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FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

PMF scaled E-field

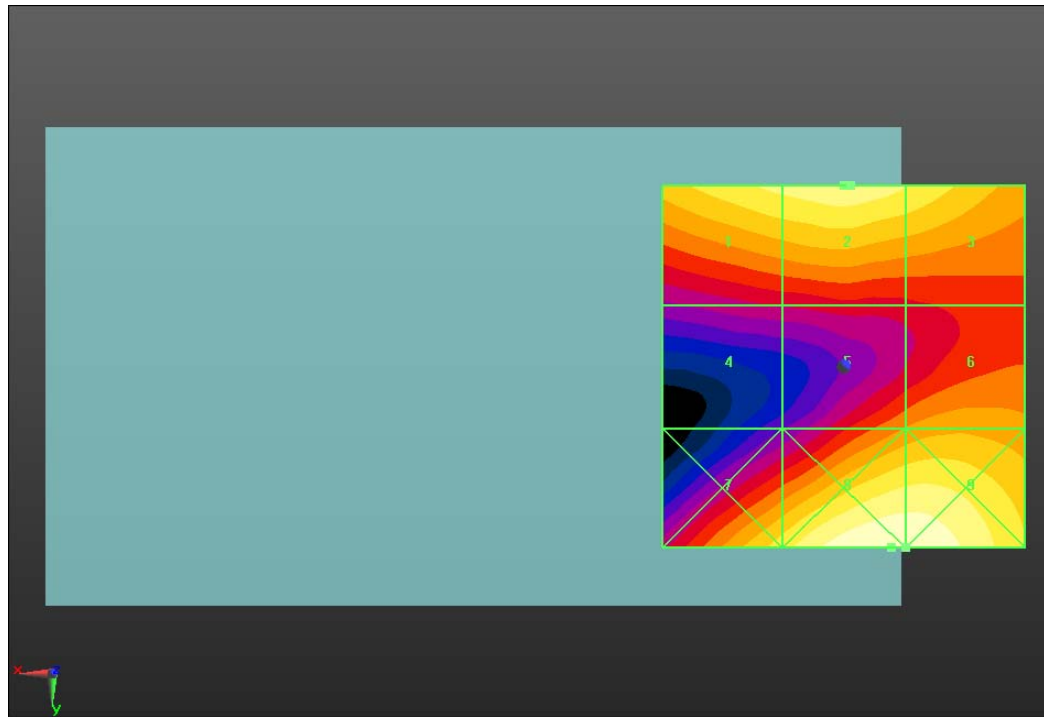
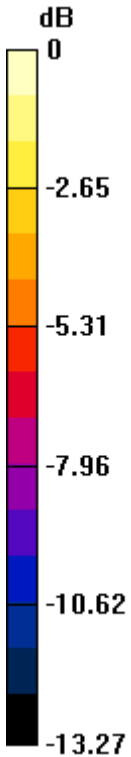
Grid 1 <b>M4</b> <b>29.05 V/m</b>	Grid 2 <b>M4</b> <b>31.28 V/m</b>	Grid 3 <b>M4</b> <b>30.39 V/m</b>
Grid 4 <b>M4</b> <b>18.78 V/m</b>	Grid 5 <b>M4</b> <b>20.45 V/m</b>	Grid 6 <b>M4</b> <b>20.17 V/m</b>
Grid 7 <b>M4</b> <b>20.43 V/m</b>	Grid 8 <b>M4</b> <b>29.32 V/m</b>	Grid 9 <b>M4</b> <b>29.32 V/m</b>

**Cursor:**


Total = 31.277 V/m

E Category: M4

Location: -1, -25, 8.7 mm



0 dB = 34.590V/m = 30.78 dB V/m

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Date/Time: 12/19/2012 1:48:10 AM

Test Laboratory: RIM Testing Services

### HAC RF\_E-Field\_GSM850

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2641D6A8**

Communication System: GSM 850; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 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 = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

### Device E-Field GSM850 measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_Low\_Chan/Hearing Aid Compatibility

**Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 73.14 V/m; Power Drift = -0.09 dB

PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 187.0 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>154.2 V/m</b>	Grid 2 <b>M3</b> <b>179.0 V/m</b>	Grid 3 <b>M3</b> <b>179.0 V/m</b>
Grid 4 <b>M3</b> <b>160.7 V/m</b>	Grid 5 <b>M3</b> <b>187.0 V/m</b>	Grid 6 <b>M3</b> <b>186.9 V/m</b>

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Grid 7 <b>M3</b> <b>165.0 V/m</b>	Grid 8 <b>M3</b> <b>185.8 V/m</b>	Grid 9 <b>M3</b> <b>185.5 V/m</b>
--------------------------------------	--------------------------------------	--------------------------------------

**Cursor:**

Total = 187.0 V/m  
E Category: M3  
Location: -8, 5, 8.7 mm

**Device E-Field GSM850 measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_Mid\_Chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 75.07 V/m; Power Drift = -0.06 dB  
PMR not calibrated. PMF = 3.000 is applied.  
E-field emissions = 203.9 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>151.9 V/m</b>	Grid 2 <b>M3</b> <b>189.0 V/m</b>	Grid 3 <b>M3</b> <b>189.1 V/m</b>
Grid 4 <b>M3</b> <b>163.8 V/m</b>	Grid 5 <b>M3</b> <b>203.9 V/m</b>	Grid 6 <b>M3</b> <b>204.0 V/m</b>
Grid 7 <b>M3</b> <b>177.4 V/m</b>	Grid 8 <b>M3</b> <b>206.6 V/m</b>	Grid 9 <b>M3</b> <b>205.8 V/m</b>

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**Cursor:**

Total = 206.6 V/m  
E Category: M3  
Location: -5, 25, 8.7 mm

**Device E-Field GSM850 measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_High\_Chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 70.25 V/m; Power Drift = -0.03 dB  
PMR not calibrated. PMF = 3.000 is applied.  
E-field emissions = 184.7 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>144.0 V/m</b>	Grid 2 <b>M3</b> <b>177.0 V/m</b>	Grid 3 <b>M3</b> <b>177.2 V/m</b>
Grid 4 <b>M3</b> <b>151.4 V/m</b>	Grid 5 <b>M3</b> <b>184.7 V/m</b>	Grid 6 <b>M3</b> <b>184.7 V/m</b>
Grid 7 <b>M3</b> <b>159.6 V/m</b>	Grid 8 <b>M3</b> <b>184.4 V/m</b>	Grid 9 <b>M3</b> <b>184.6 V/m</b>

**Cursor:**

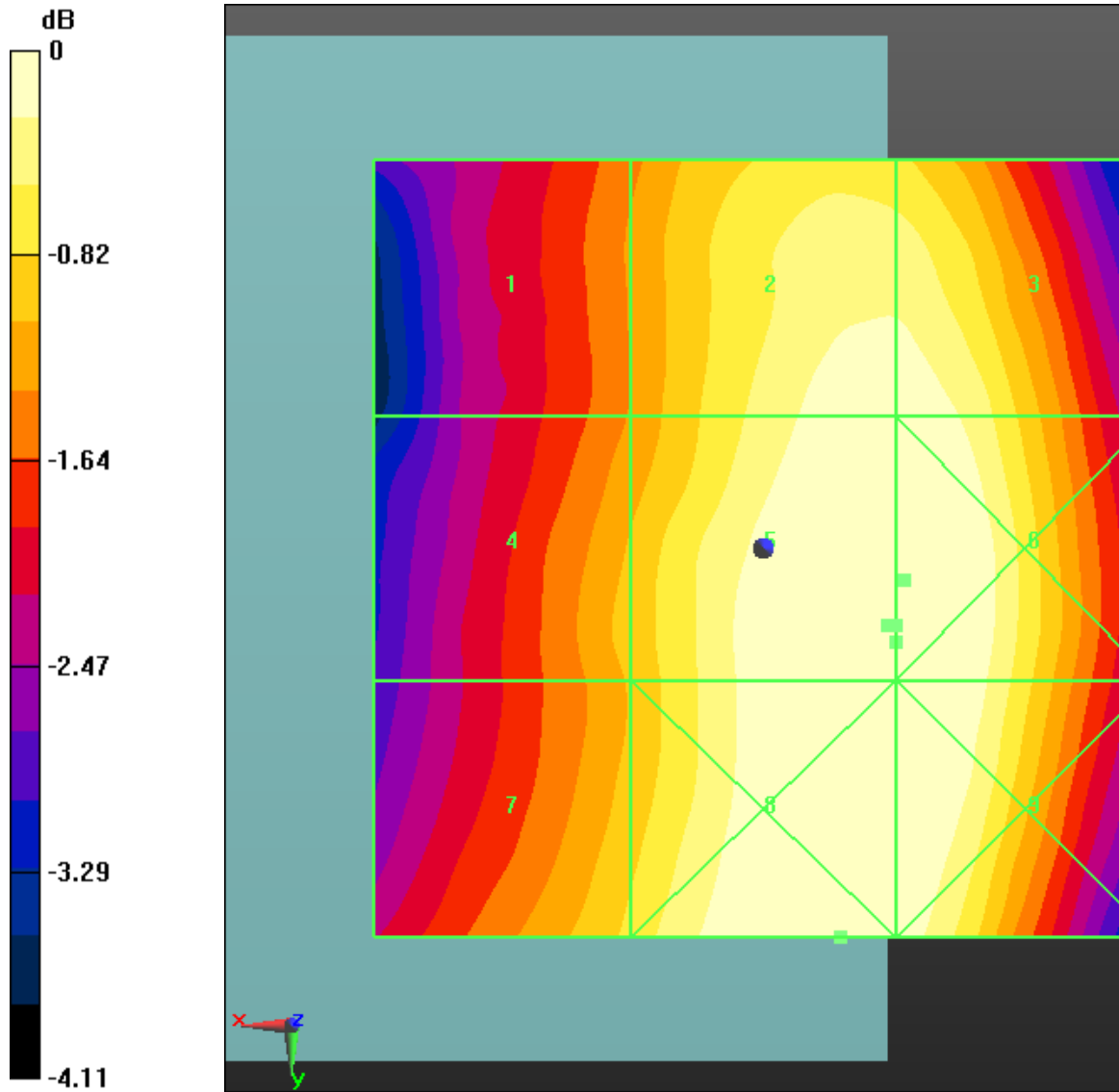
Total = 184.7 V/m  
E Category: M3  
Location: -9, 2, 8.7 mm

Author Data  
**Daoud Attayi**

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 L6ARFP120LW**



0 dB = 179.6V/m = 45.09 dB V/m



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Date/Time: 12/19/2012 2:07:46 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2641D6A8**

Communication System: GSM 850; Frequency: 836.8 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 = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

### Device E-Field GSM850 measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_telecoil/Hearing Aid Compatibility Test

**(101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 75.12 V/m; Power Drift = -0.05 dB

PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 193.0 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>136.5 V/m</b>	Grid 2 <b>M3</b> <b>174.6 V/m</b>	Grid 3 <b>M3</b> <b>177.2 V/m</b>
Grid 4 <b>M3</b> <b>150.0 V/m</b>	Grid 5 <b>M3</b> <b>193.0 V/m</b>	Grid 6 <b>M3</b> <b>200.0 V/m</b>
Grid 7 <b>M3</b>	Grid 8 <b>M3</b>	Grid 9 <b>M3</b>

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

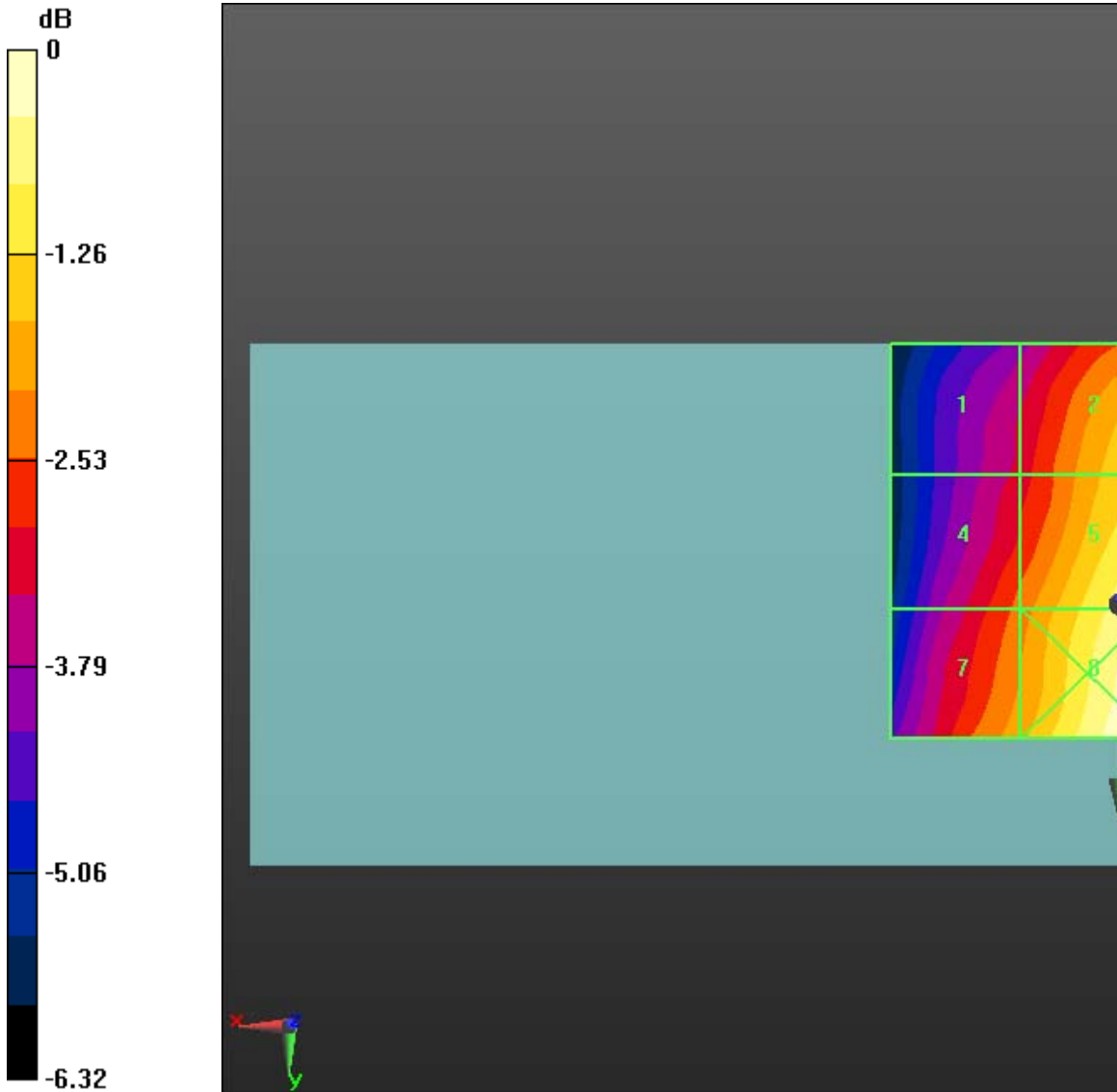
Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

<b>160.1 V/m</b>	<b>201.8 V/m</b>	<b>204.6 V/m</b>
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**Cursor:**

Total = 204.6 V/m  
 E Category: M3  
 Location: -9, 17, 8.7 mm



0 dB = 196.5V/m = 45.87 dB V/m

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Date/Time: 12/19/2012 2:32:23 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2641D6A8**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz, Frequency: 836.4 MHz, Frequency: 846.6 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 = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Device E-Field UMTS band V measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_Low\_Chan/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 81.12 V/m; Power Drift = 0.08 dB

PMR not calibrated. PMF = 1.070 is applied.


E-field emissions = 74.30 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>62.11 V/m</b>	Grid 2 <b>M4</b> <b>72.52 V/m</b>	Grid 3 <b>M4</b> <b>72.52 V/m</b>
Grid 4 <b>M4</b> <b>62.92 V/m</b>	Grid 5 <b>M4</b> <b>74.30 V/m</b>	Grid 6 <b>M4</b> <b>74.30 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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<b>62.70 V/m</b>	<b>73.42 V/m</b>	<b>73.38 V/m</b>
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**Cursor:**  
Total = 74.297 V/m  
E Category: M4  
Location: -8, 1.5, 8.7 mm

**Device E-Field UMTS band V measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device\_Mid\_Chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 81.58 V/m; Power Drift = 0.09 dB  
PMR not calibrated. PMF = 1.070 is applied.  
E-field emissions = 76.91 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>61.39 V/m</b>	Grid 2 <b>M4</b> <b>74.07 V/m</b>	Grid 3 <b>M4</b> <b>74.08 V/m</b>
Grid 4 <b>M4</b> <b>62.65 V/m</b>	Grid 5 <b>M4</b> <b>76.91 V/m</b>	Grid 6 <b>M4</b> <b>76.91 V/m</b>
Grid 7 <b>M4</b> <b>63.75 V/m</b>	Grid 8 <b>M4</b> <b>76.50 V/m</b>	Grid 9 <b>M4</b> <b>76.50 V/m</b>

**Cursor:**  
Total = 76.909 V/m  
E Category: M4  
Location: -8.5, 3.5, 8.7 mm

**Device E-Field UMTS band V measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device\_High\_Chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 86.79 V/m; Power Drift = -0.03 dB  
PMR not calibrated. PMF = 1.070 is applied.  
E-field emissions = 80.50 V/m

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

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
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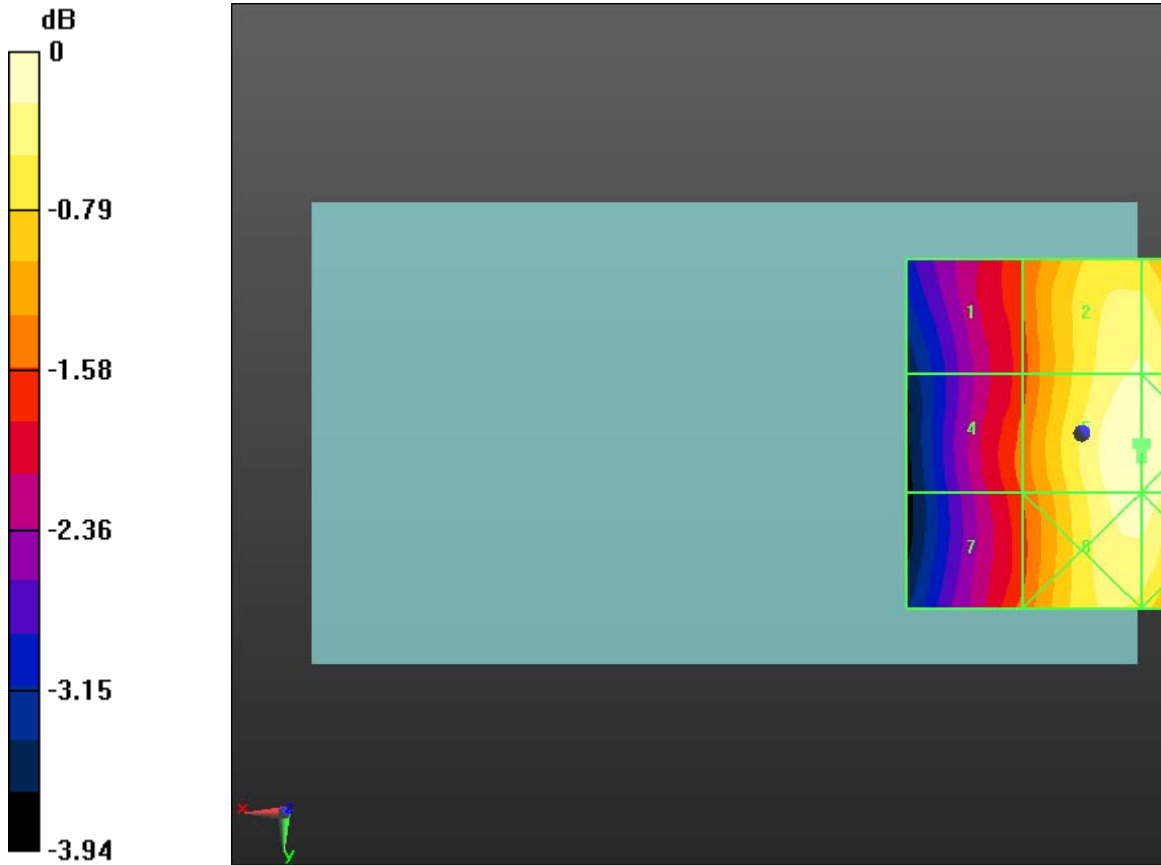
Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

PMF scaled E-field

Grid 1 <b>M4</b> <b>65.30 V/m</b>	Grid 2 <b>M4</b> <b>78.12 V/m</b>	Grid 3 <b>M4</b> <b>78.15 V/m</b>
Grid 4 <b>M4</b> <b>66.38 V/m</b>	Grid 5 <b>M4</b> <b>80.50 V/m</b>	Grid 6 <b>M4</b> <b>80.53 V/m</b>
Grid 7 <b>M4</b> <b>66.66 V/m</b>	Grid 8 <b>M4</b> <b>79.70 V/m</b>	Grid 9 <b>M4</b> <b>79.70 V/m</b>

**Cursor:**  
 Total = 80.526 V/m  
 E Category: M4  
 Location: -9, 1.5, 8.7 mm



0 dB = 74.300V/m = 37.42 dB V/m

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Date/Time: 12/19/2012 2:54:54 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2641D6A8**

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 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 = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Device E-Field UMTS band IV measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_Low\_Chan/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.96 V/m; Power Drift = -0.02 dB

PMR not calibrated. PMF = 1.030 is applied.

E-field emissions = 35.60 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>35.60 V/m</b>	Grid 2 <b>M4</b> <b>30.32 V/m</b>	Grid 3 <b>M4</b> <b>27.25 V/m</b>
Grid 4 <b>M4</b> <b>21.40 V/m</b>	Grid 5 <b>M4</b> <b>27.73 V/m</b>	Grid 6 <b>M4</b> <b>29.99 V/m</b>

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Grid 7 <b>M4</b> <b>26.57 V/m</b>	Grid 8 <b>M4</b> <b>37.25 V/m</b>	Grid 9 <b>M4</b> <b>37.25 V/m</b>
--------------------------------------	--------------------------------------	--------------------------------------

**Cursor:**

Total = 37.246 V/m

E Category: M4

Location: -8.5, 25, 8.7 mm

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

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 14.74 V/m; Power Drift = -0.15 dB

PMR not calibrated. PMF = 1.030 is applied.

E-field emissions = 36.00 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>36.00 V/m</b>	Grid 2 <b>M4</b> <b>31.36 V/m</b>	Grid 3 <b>M4</b> <b>25.75 V/m</b>
Grid 4 <b>M4</b> <b>22.38 V/m</b>	Grid 5 <b>M4</b> <b>27.46 V/m</b>	Grid 6 <b>M4</b> <b>30.37 V/m</b>
Grid 7 <b>M4</b> <b>27.95 V/m</b>	Grid 8 <b>M4</b> <b>39.78 V/m</b>	Grid 9 <b>M4</b> <b>39.80 V/m</b>

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**Cursor:**

Total = 39.797 V/m

E Category: M4

Location: -9, 25, 8.7 mm

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

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 15.68 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.030 is applied.

E-field emissions = 36.02 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>36.02 V/m</b>	Grid 2 <b>M4</b> <b>33.05 V/m</b>	Grid 3 <b>M4</b> <b>28.27 V/m</b>
Grid 4 <b>M4</b> <b>22.27 V/m</b>	Grid 5 <b>M4</b> <b>25.63 V/m</b>	Grid 6 <b>M4</b> <b>29.11 V/m</b>
Grid 7 <b>M4</b> <b>28.75 V/m</b>	Grid 8 <b>M4</b> <b>40.43 V/m</b>	Grid 9 <b>M4</b> <b>40.50 V/m</b>

**Cursor:**

Total = 40.495 V/m

E Category: M4

Location: -9.5, 25, 8.7 mm

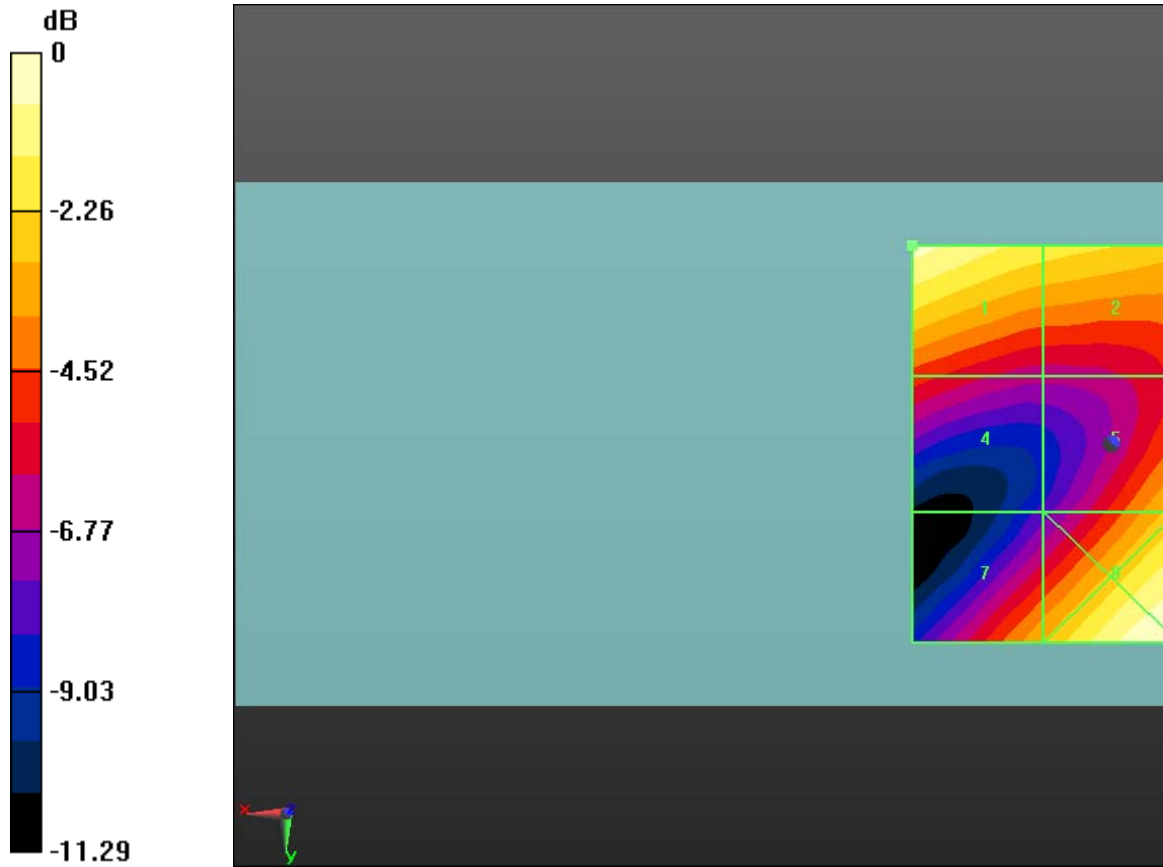


Author Data  
**Daoud Attayi**

Dates of Test  
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Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
L6ARFP120LW**



0 dB = 37.250V/m = 31.42 dB V/m

Date/Time: 2/13/2013 4:17:29 PM

Test Laboratory: RIM Testing Services


### **HAC RF\_E-Field\_02\_13\_13\_Rev 2\_speaker**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26703205**

Communication System: 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>

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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: DAE3 Sn472; Calibrated: 3/7/2012
- 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 E-Field GSM 1900 measurement with ER probe/E Scan - ER3D - 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 = 25.39 V/m; Power Drift = -0.04 dB


PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 64.02 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>65.28 V/m</b>	Grid 2 <b>M3</b> <b>71.59 V/m</b>	Grid 3 <b>M3</b> <b>69.76 V/m</b>
Grid 4 <b>M3</b> <b>50.68 V/m</b>	Grid 5 <b>M3</b> <b>64.02 V/m</b>	Grid 6 <b>M3</b> <b>64.02 V/m</b>
Grid 7 <b>M4</b> <b>38.75 V/m</b>	Grid 8 <b>M3</b> <b>57.91 V/m</b>	Grid 9 <b>M3</b> <b>58.45 V/m</b>

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**Cursor:**

Total = 71.59 V/m  
E Category: M3  
Location: -2, -25, 8.7 mm

**Device E-Field GSM 1900 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 = 20.52 V/m; Power Drift = -0.17 dB  
PMR not calibrated. PMF = 2.850 is applied.  
E-field emissions = 57.87 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>52.88 V/m</b>	Grid 2 <b>M3</b> <b>54.89 V/m</b>	Grid 3 <b>M3</b> <b>52.37 V/m</b>
Grid 4 <b>M4</b> <b>37.22 V/m</b>	Grid 5 <b>M3</b> <b>54.52 V/m</b>	Grid 6 <b>M3</b> <b>54.95 V/m</b>
Grid 7 <b>M4</b> <b>39.63 V/m</b>	Grid 8 <b>M3</b> <b>57.81 V/m</b>	Grid 9 <b>M3</b> <b>57.87 V/m</b>

**Cursor:**

Total = 57.87 V/m  
E Category: M3  
Location: -9.5, 22.5, 8.7 mm

**Device E-Field GSM 1900 measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_High\_Chan/Hearing Aid Compatibility Test (101x101x1):**

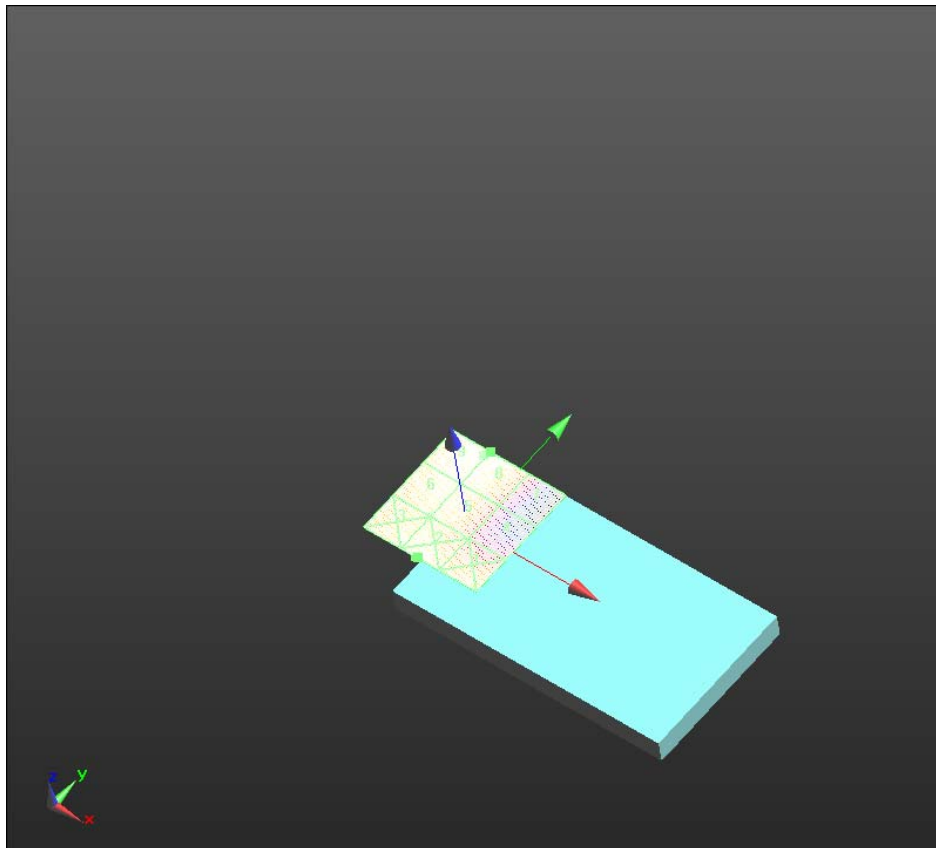
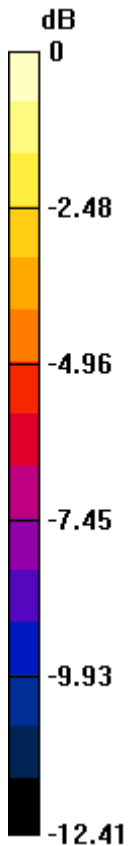
Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 17.15 V/m; Power Drift = 0.21 dB  
PMR not calibrated. PMF = 2.850 is applied.  
E-field emissions = 62.02 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>47.38 V/m</b>	Grid 2 <b>M3</b> <b>50.53 V/m</b>	Grid 3 <b>M3</b> <b>49.05 V/m</b>
Grid 4 <b>M4</b> <b>34.56 V/m</b>	Grid 5 <b>M3</b> <b>50.09 V/m</b>	Grid 6 <b>M3</b> <b>50.52 V/m</b>
Grid 7 <b>M4</b> <b>44.42 V/m</b>	Grid 8 <b>M3</b> <b>62.02 V/m</b>	Grid 9 <b>M3</b> <b>62.02 V/m</b>

**Cursor:**  
 Total = 62.02 V/m  
 E Category: M3  
 Location: -8.5, 25, 8.7 mm



0 dB = 72.37 V/m = 37.19 dBV/m



Document

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Author Data

**Daoud Attayi**

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FCC ID

**L6ARFL110LW  
L6ARFP120LW**

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Date/Time: 2/13/2013 4:33:03 PM

Test Laboratory: RIM Testing Services

### HAC RF\_E-Field\_02\_13\_13\_Rev 2\_telecoil

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 26703205**

Communication System: 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: DAE3 Sn472; Calibrated: 3/7/2012
- 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 GSM 1900 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 = 24.33 V/m; Power Drift = 0.25 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 66.89 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>66.56 V/m</b>	Grid 2 <b>M3</b> <b>73.38 V/m</b>	Grid 3 <b>M3</b> <b>72.47 V/m</b>
Grid 4 <b>M3</b> <b>52.02 V/m</b>	Grid 5 <b>M3</b> <b>66.73 V/m</b>	Grid 6 <b>M3</b> <b>66.89 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M3</b>	Grid 9 <b>M3</b>

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<b>38.28 V/m</b>	<b>59.90 V/m</b>	<b>61.17 V/m</b>
------------------	------------------	------------------

**Cursor:**  
Total = 73.38 V/m  
E Category: M3  
Location: -1, -33, 8.7 mm

**Device E-Field GSM 1900 measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to Device\_Low\_Chan\_2100 Battery\_center of 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 = 26.09 V/m; Power Drift = -0.17 dB  
PMR not calibrated. PMF = 2.850 is applied.  
E-field emissions = 68.07 V/m

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

PMF scaled E-field

<b>Grid 1 M3 67.61 V/m</b>	<b>Grid 2 M3 74.52 V/m</b>	<b>Grid 3 M3 73.49 V/m</b>
<b>Grid 4 M3 53.85 V/m</b>	<b>Grid 5 M3 67.98 V/m</b>	<b>Grid 6 M3 68.07 V/m</b>
<b>Grid 7 M4 39.95 V/m</b>	<b>Grid 8 M3 60.24 V/m</b>	<b>Grid 9 M3 61.48 V/m</b>

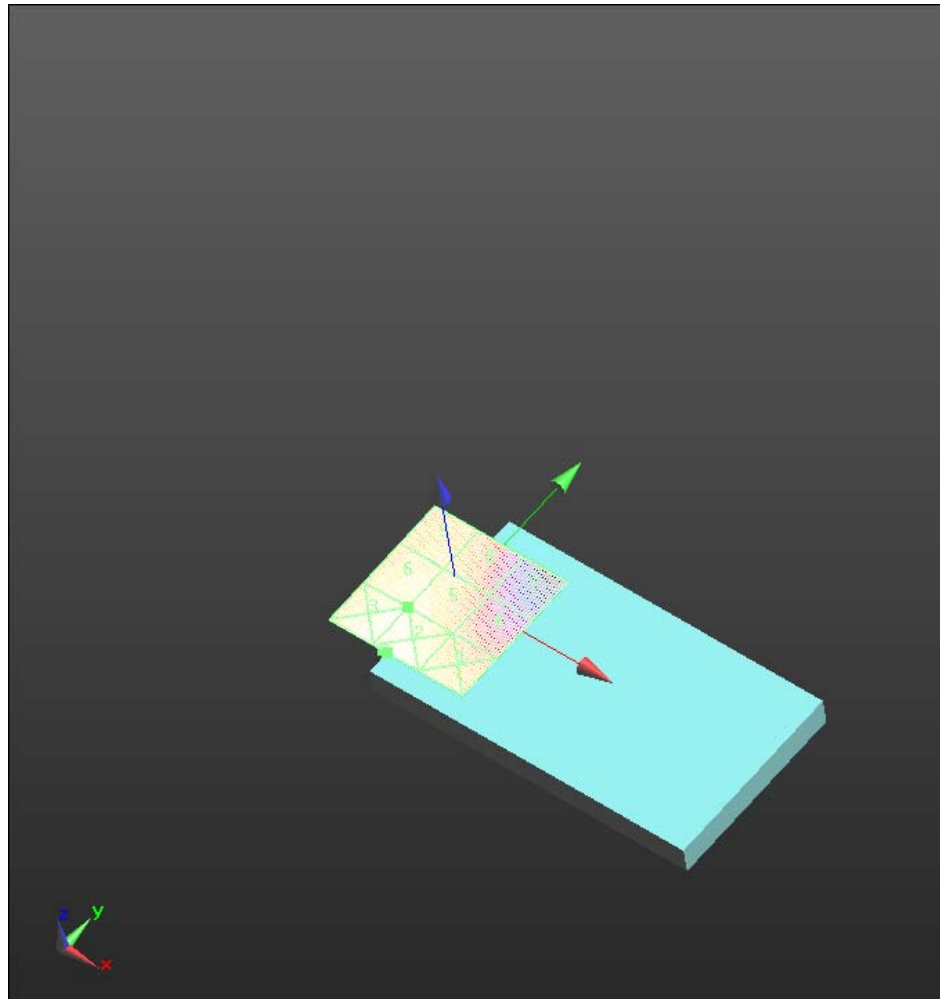
**Cursor:**  
Total = 74.52 V/m  
E Category: M3  
Location: 0.5, -33, 8.7 mm

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
L6ARFP120LW**



0 dB = 74.18 V/m = 37.41 dBV/m



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Date/Time: 12/19/2012 2:16:05 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2641D6A8**

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz, Frequency: 1880 MHz, Frequency: 1907.6 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),  $z = 8.7$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Device E-Field UMTS band II measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device\_Low\_Chan/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 22.50 V/m; Power Drift = -0.15 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 31.17 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>33.89 V/m</b>	Grid 2 <b>M4</b> <b>37.76 V/m</b>	Grid 3 <b>M4</b> <b>36.50 V/m</b>
Grid 4 <b>M4</b> <b>20.46 V/m</b>	Grid 5 <b>M4</b> <b>25.26 V/m</b>	Grid 6 <b>M4</b> <b>24.95 V/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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<b>24.53 V/m</b>	<b>31.17 V/m</b>	<b>31.16 V/m</b>
------------------	------------------	------------------

**Cursor:**  
 Total = 37.755 V/m  
 E Category: M4  
 Location: -4, -25, 8.7 mm

**Device E-Field UMTS band II measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device\_Mid\_Chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 22.72 V/m; Power Drift = -0.11 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 E-field emissions = 30.47 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>33.15 V/m</b>	Grid 2 <b>M4</b> <b>37.88 V/m</b>	Grid 3 <b>M4</b> <b>37.86 V/m</b>
Grid 4 <b>M4</b> <b>20.34 V/m</b>	Grid 5 <b>M4</b> <b>27.29 V/m</b>	Grid 6 <b>M4</b> <b>27.34 V/m</b>
Grid 7 <b>M4</b> <b>21.98 V/m</b>	Grid 8 <b>M4</b> <b>30.44 V/m</b>	Grid 9 <b>M4</b> <b>30.47 V/m</b>

**Cursor:**  
 Total = 37.884 V/m  
 E Category: M4  
 Location: -8, -25, 8.7 mm

**Device E-Field UMTS band II measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the**

**Device\_High\_Chan/Hearing Aid Compatibility Test (101x101x1):**

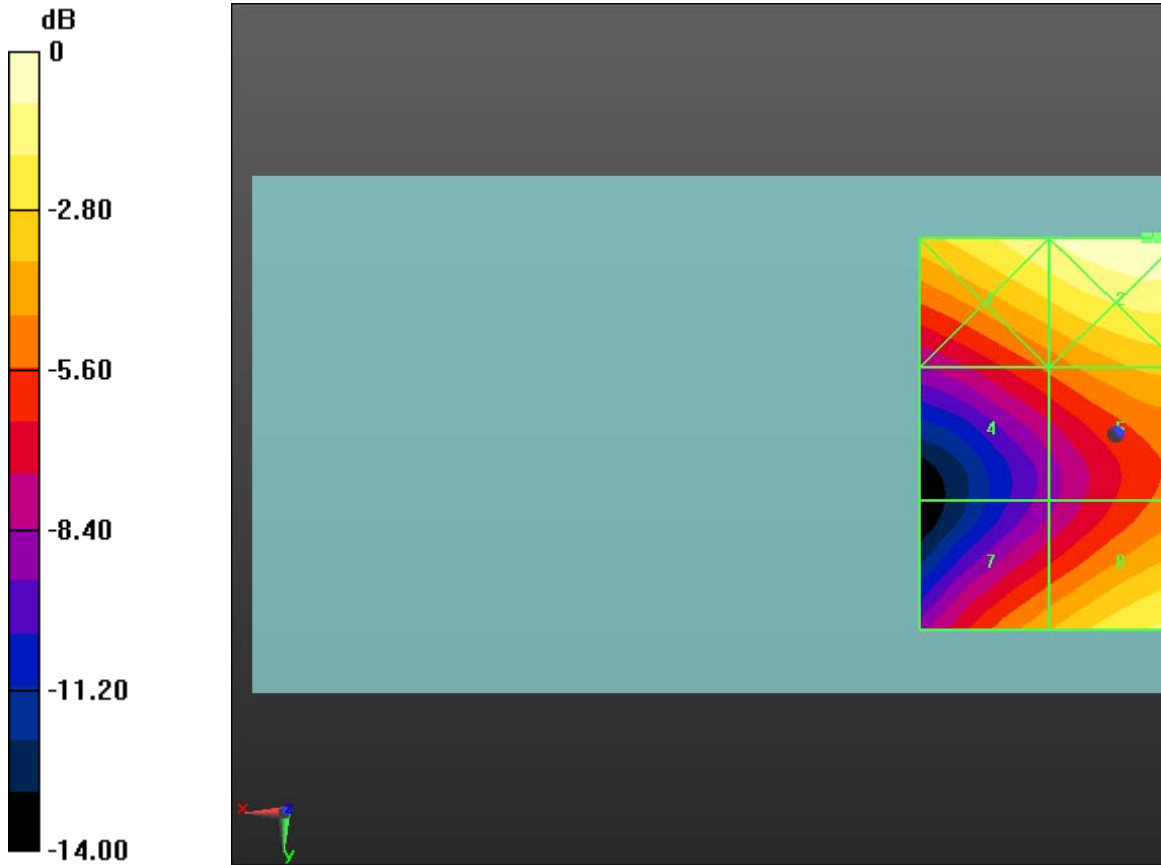
Measurement grid: dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 26.24 V/m; Power Drift = -0.02 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 E-field emissions = 29.56 V/m

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

PMF scaled E-field

<b>Grid 1 M4 32.44 V/m</b>	<b>Grid 2 M4 37.78 V/m</b>	<b>Grid 3 M4 37.49 V/m</b>
<b>Grid 4 M4 22.00 V/m</b>	<b>Grid 5 M4 29.56 V/m</b>	<b>Grid 6 M4 29.56 V/m</b>
<b>Grid 7 M4 15.11 V/m</b>	<b>Grid 8 M4 22.81 V/m</b>	<b>Grid 9 M4 23.10 V/m</b>

**Cursor:**  
 Total = 37.779 V/m  
 E Category: M4  
 Location: -5.5, -25, 8.7 mm



0 dB = 37.760V/m = 31.54 dB V/m

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Date/Time: 12/18/2012 11:17:23 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9**

Communication System: GSM 850; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 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: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- 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)

### 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.08 V/m; Power Drift = 0.43 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.49 A/m

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

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.49 A/m</b>	Grid 2 <b>M4</b> <b>0.34 A/m</b>	Grid 3 <b>M4</b> <b>0.23 A/m</b>
Grid 4 <b>M4</b> <b>0.41 A/m</b>	Grid 5 <b>M4</b> <b>0.29 A/m</b>	Grid 6 <b>M4</b> <b>0.19 A/m</b>

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Grid 7 <b>M4</b> <b>0.40 A/m</b>	Grid 8 <b>M4</b> <b>0.29 A/m</b>	Grid 9 <b>M4</b> <b>0.19 A/m</b>
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**Cursor:**

Total = 0.487 A/m  
H Category: M3  
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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.09 V/m; Power Drift = -0.11 dB  
PMR not calibrated. PMF = 2.890 is applied.  
H-field emissions = 0.52 A/m

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

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.52 A/m</b>	Grid 2 <b>M4</b> <b>0.38 A/m</b>	Grid 3 <b>M4</b> <b>0.26 A/m</b>
Grid 4 <b>M4</b> <b>0.44 A/m</b>	Grid 5 <b>M4</b> <b>0.33 A/m</b>	Grid 6 <b>M4</b> <b>0.21 A/m</b>
Grid 7 <b>M4</b> <b>0.43 A/m</b>	Grid 8 <b>M4</b> <b>0.32 A/m</b>	Grid 9 <b>M4</b> <b>0.19 A/m</b>

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

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.09 V/m; Power Drift = 0.06 dB  
PMR not calibrated. PMF = 2.890 is applied.  
H-field emissions = 0.51 A/m

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

PMF scaled H-field

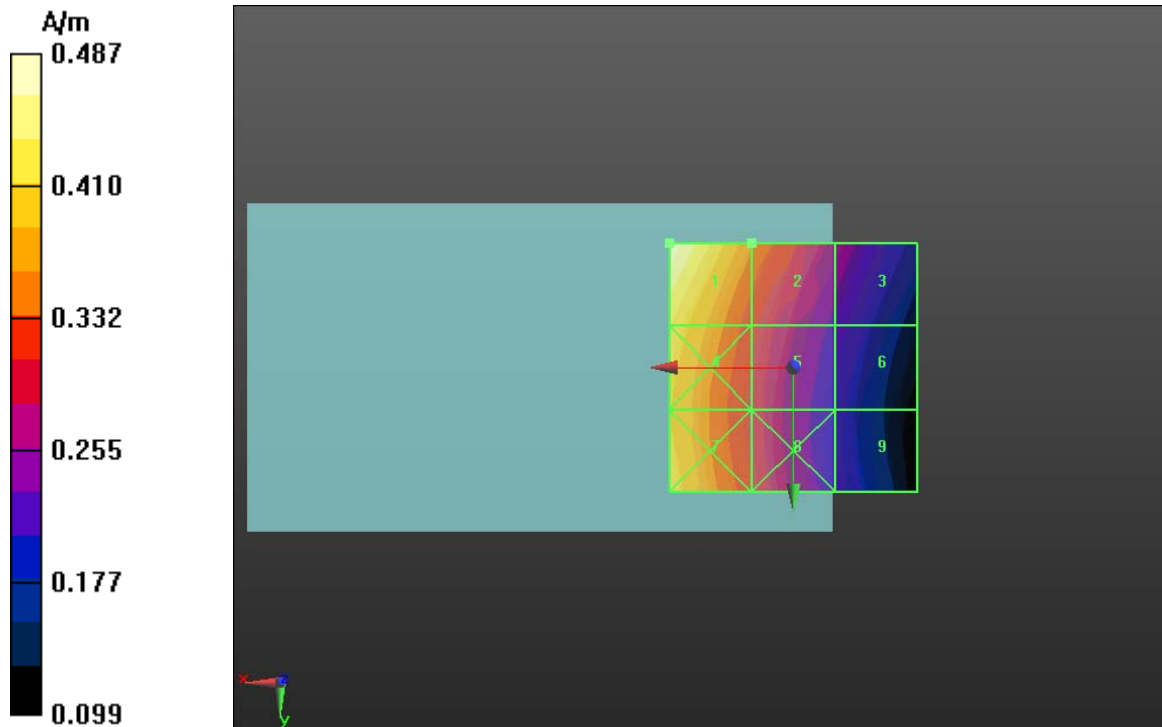
Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
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Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

Grid 1 <b>M3</b> <b>0.51 A/m</b>	Grid 2 <b>M4</b> <b>0.37 A/m</b>	Grid 3 <b>M4</b> <b>0.25 A/m</b>
Grid 4 <b>M4</b> <b>0.44 A/m</b>	Grid 5 <b>M4</b> <b>0.33 A/m</b>	Grid 6 <b>M4</b> <b>0.22 A/m</b>
Grid 7 <b>M3</b> <b>0.45 A/m</b>	Grid 8 <b>M4</b> <b>0.33 A/m</b>	Grid 9 <b>M4</b> <b>0.22 A/m</b>



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Date/Time: 12/18/2012 8:13:49 PM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9**

Communication System: GSM 850; Frequency: 836.8 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: 11/9/2012
- Sensor-Surface: (Fix Surface),  $z = 8.7$
- 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)

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

**Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.09 V/m; Power Drift = 0.06 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.56 A/m

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

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.56 A/m</b>	Grid 2 <b>M4</b> <b>0.43 A/m</b>	Grid 3 <b>M4</b> <b>0.30 A/m</b>
Grid 4 <b>M3</b> <b>0.48 A/m</b>	Grid 5 <b>M4</b> <b>0.37 A/m</b>	Grid 6 <b>M4</b> <b>0.26 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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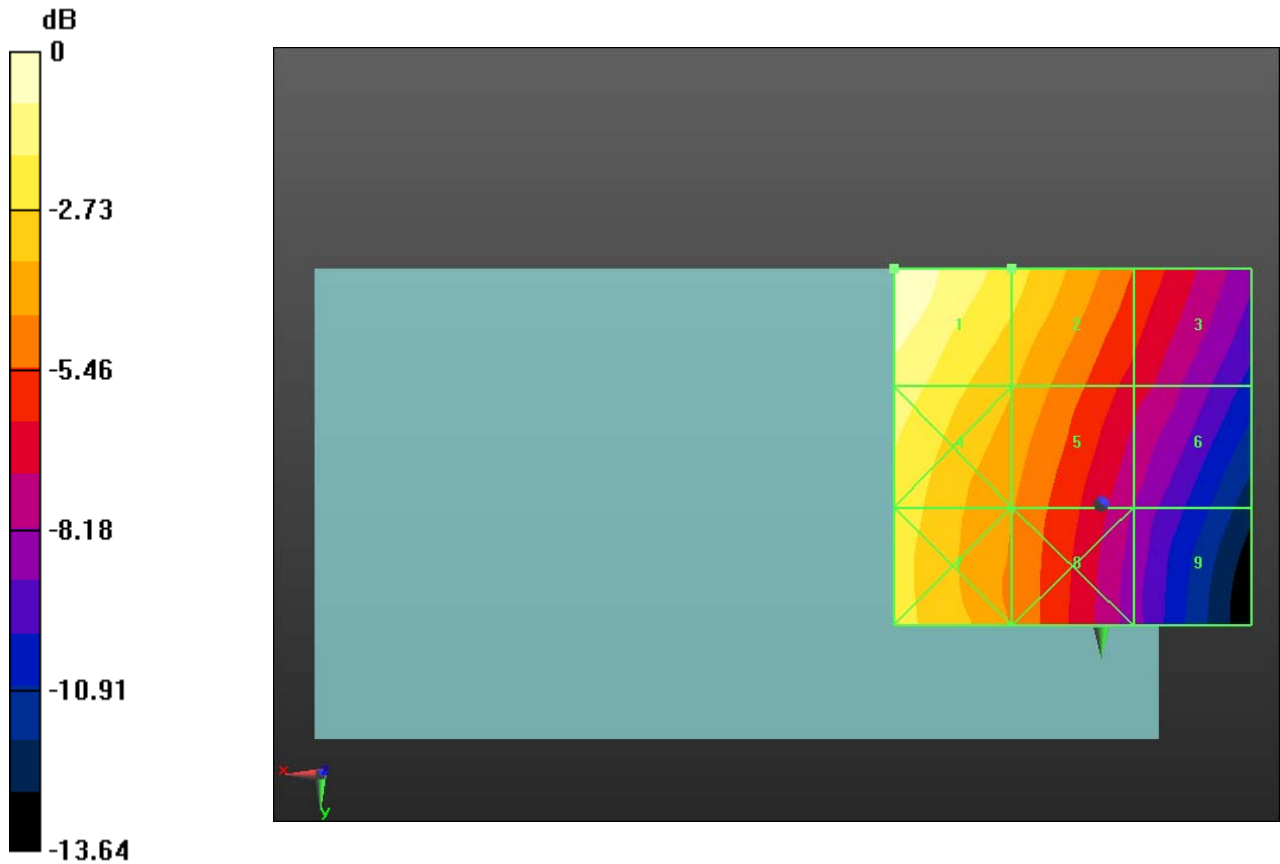
Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**


FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

**0.44 A/m      0.33 A/m      0.22 A/m**



0 dB = 0.560A/m = -5.04 dB A/m



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Date/Time: 12/18/2012 12:06:44 PM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz, Frequency: 836.4 MHz, Frequency: 846.6 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: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- 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)

### 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.07 V/m; Power Drift = 0.11 dB


PMR not calibrated. PMF = 1.070 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>0.15 A/m</b>	Grid 2 <b>M4</b> <b>0.11 A/m</b>	Grid 3 <b>M4</b> <b>0.07 A/m</b>
Grid 4 <b>M4</b> <b>0.13 A/m</b>	Grid 5 <b>M4</b> <b>0.10 A/m</b>	Grid 6 <b>M4</b> <b>0.06 A/m</b>

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<b>Grid 7 M4</b> <b>0.12 A/m</b>	<b>Grid 8 M4</b> <b>0.09 A/m</b>	<b>Grid 9 M4</b> <b>0.05 A/m</b>
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**Cursor:**

Total = 0.153 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.08 V/m; Power Drift = -0.04 dB  
 PMR not calibrated. PMF = 1.070 is applied.  
 H-field emissions = 0.17 A/m

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

PMF scaled H-field

<b>Grid 1 M4</b> <b>0.17 A/m</b>	<b>Grid 2 M4</b> <b>0.12 A/m</b>	<b>Grid 3 M4</b> <b>0.08 A/m</b>
<b>Grid 4 M4</b> <b>0.14 A/m</b>	<b>Grid 5 M4</b> <b>0.11 A/m</b>	<b>Grid 6 M4</b> <b>0.07 A/m</b>
<b>Grid 7 M4</b> <b>0.14 A/m</b>	<b>Grid 8 M4</b> <b>0.10 A/m</b>	<b>Grid 9 M4</b> <b>0.06 A/m</b>

**Cursor:**

Total = 0.167 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):** Measurement grid: dx=5mm, dy=5mm

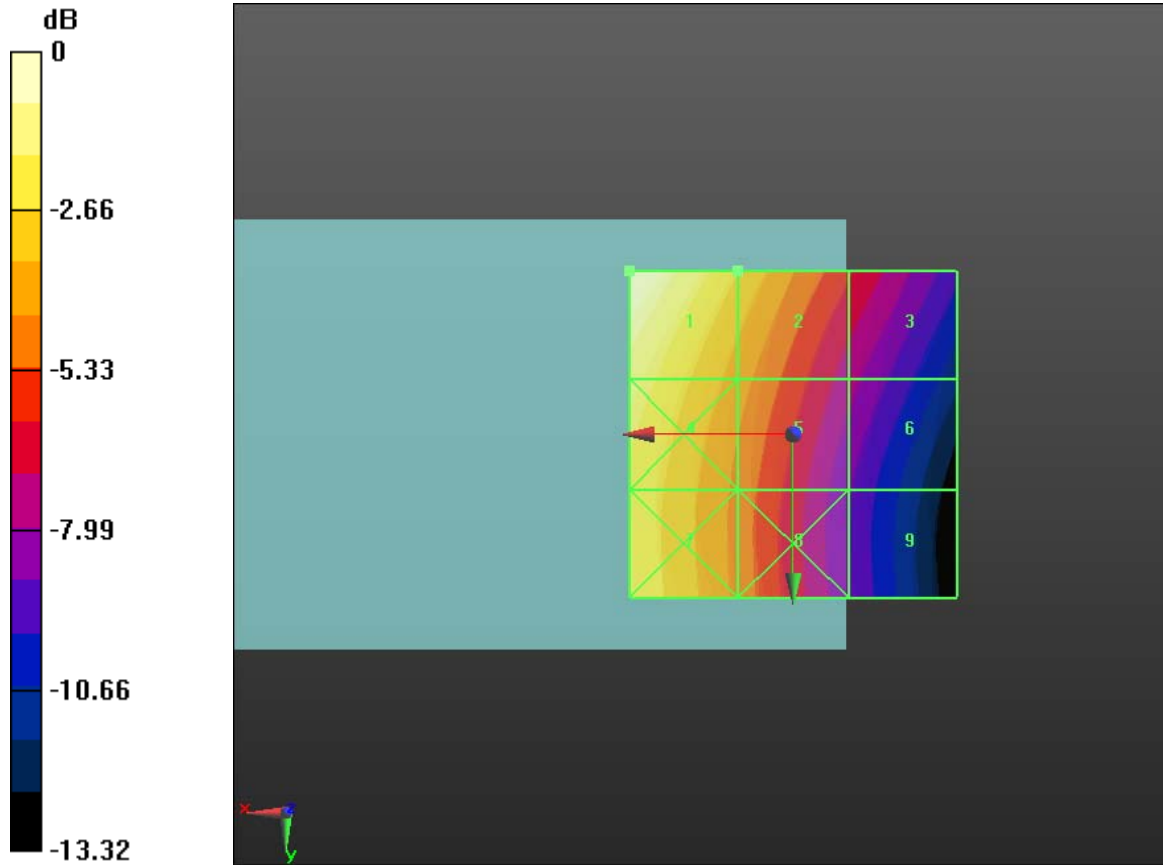
Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.09 V/m; Power Drift = 0.06 dB  
 PMR not calibrated. PMF = 1.070 is applied.  
 H-field emissions = 0.19 A/m

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


PMF scaled H-field

Grid 1 <b>M4</b> <b>0.19 A/m</b>	Grid 2 <b>M4</b> <b>0.14 A/m</b>	Grid 3 <b>M4</b> <b>0.09 A/m</b>
Grid 4 <b>M4</b> <b>0.16 A/m</b>	Grid 5 <b>M4</b> <b>0.12 A/m</b>	Grid 6 <b>M4</b> <b>0.08 A/m</b>
Grid 7 <b>M4</b> <b>0.17 A/m</b>	Grid 8 <b>M4</b> <b>0.13 A/m</b>	Grid 9 <b>M4</b> <b>0.08 A/m</b>

**Cursor:**  
 Total = 0.186 A/m  
 H Category: M4  
 Location: 25, -25, 8.7 mm



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

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Date/Time: 12/18/2012 11:34:14 AM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_GSM\_1900

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9**

Communication System: GSM 1900; Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8 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: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- 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)

### 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.07 V/m; Power Drift = 0.19 dB


PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.22 A/m

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

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.21 A/m</b>	Grid 2 <b>M3</b> <b>0.21 A/m</b>	Grid 3 <b>M3</b> <b>0.22 A/m</b>
Grid 4 <b>M3</b> <b>0.16 A/m</b>	Grid 5 <b>M3</b> <b>0.22 A/m</b>	Grid 6 <b>M3</b> <b>0.22 A/m</b>

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<b>Grid 7 M3</b> <b>0.20 A/m</b>	<b>Grid 8 M3</b> <b>0.20 A/m</b>	<b>Grid 9 M3</b> <b>0.20 A/m</b>
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**Cursor:**

Total = 0.218 A/m  
H Category: M3  
Location: -11, -5.5, 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.07 V/m; Power Drift = -0.14 dB  
PMR not calibrated. PMF = 2.860 is applied.  
H-field emissions = 0.21 A/m  
Near-field category: **M3 (AWF -5 dB)**

PMF scaled H-field

<b>Grid 1 M3</b> <b>0.20 A/m</b>	<b>Grid 2 M3</b> <b>0.20 A/m</b>	<b>Grid 3 M3</b> <b>0.21 A/m</b>
<b>Grid 4 M3</b> <b>0.16 A/m</b>	<b>Grid 5 M3</b> <b>0.21 A/m</b>	<b>Grid 6 M3</b> <b>0.21 A/m</b>
<b>Grid 7 M3</b> <b>0.20 A/m</b>	<b>Grid 8 M3</b> <b>0.20 A/m</b>	<b>Grid 9 M3</b> <b>0.20 A/m</b>

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

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.07 V/m; Power Drift = 0.07 dB  
PMR not calibrated. PMF = 2.860 is applied.  
H-field emissions = 0.21 A/m  
Near-field category: **M3 (AWF -5 dB)**

PMF scaled H-field

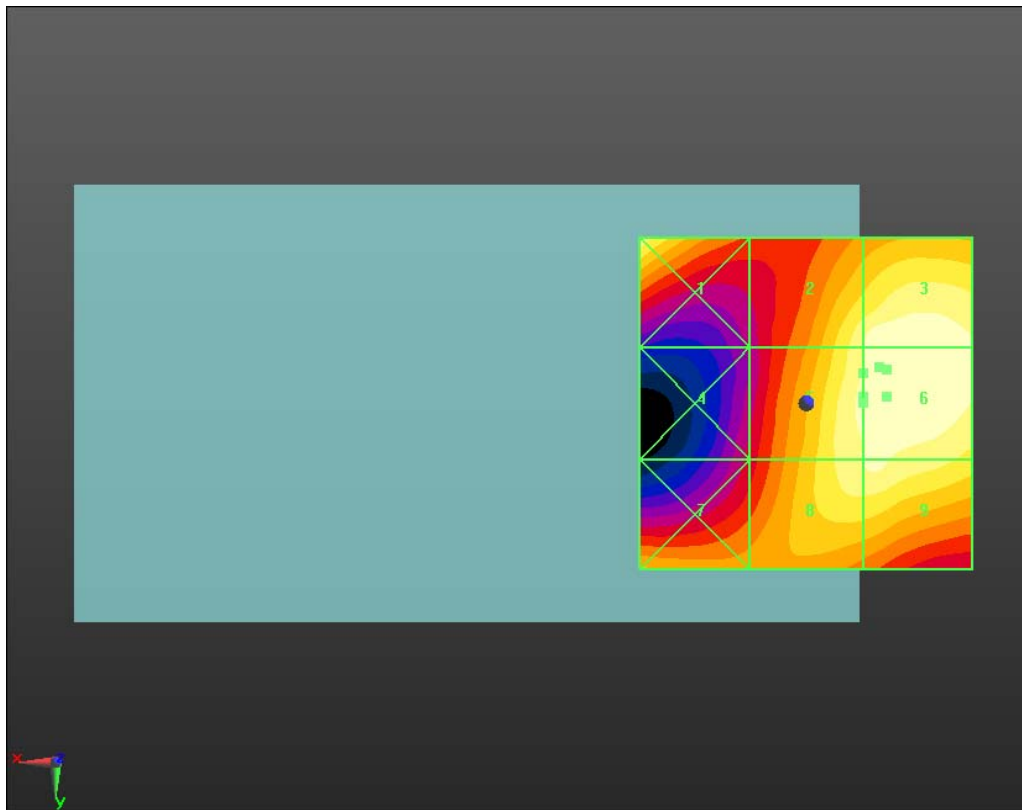
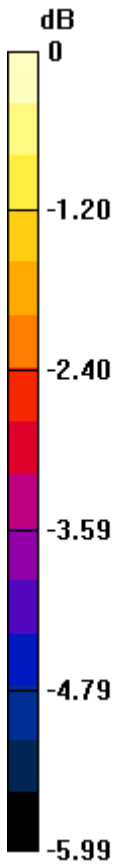
Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

<b>Grid 1 M3 0.20 A/m</b>	<b>Grid 2 M3 0.20 A/m</b>	<b>Grid 3 M3 0.21 A/m</b>
<b>Grid 4 M3 0.14 A/m</b>	<b>Grid 5 M3 0.20 A/m</b>	<b>Grid 6 M3 0.21 A/m</b>
<b>Grid 7 M3 0.17 A/m</b>	<b>Grid 8 M3 0.20 A/m</b>	<b>Grid 9 M3 0.20 A/m</b>



0 dB = 0.220A/m = -13.15 dB A/m

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Date/Time: 12/18/2012 8:33:13 PM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_GSM\_1900\_Telecoil

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9**

Communication System: GSM 1900; Frequency: 1850.2 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: 11/9/2012
- Sensor-Surface: (Fix Surface),  $z = 8.7$
- 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)

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

**Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

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

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.22 A/m

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

PMF scaled H-field

Grid 1 <b>M2</b> <b>0.27 A/m</b>	Grid 2 <b>M3</b> <b>0.21 A/m</b>	Grid 3 <b>M3</b> <b>0.21 A/m</b>
Grid 4 <b>M3</b> <b>0.17 A/m</b>	Grid 5 <b>M3</b> <b>0.22 A/m</b>	Grid 6 <b>M3</b> <b>0.22 A/m</b>
Grid 7 <b>M3</b>	Grid 8 <b>M3</b>	Grid 9 <b>M3</b>

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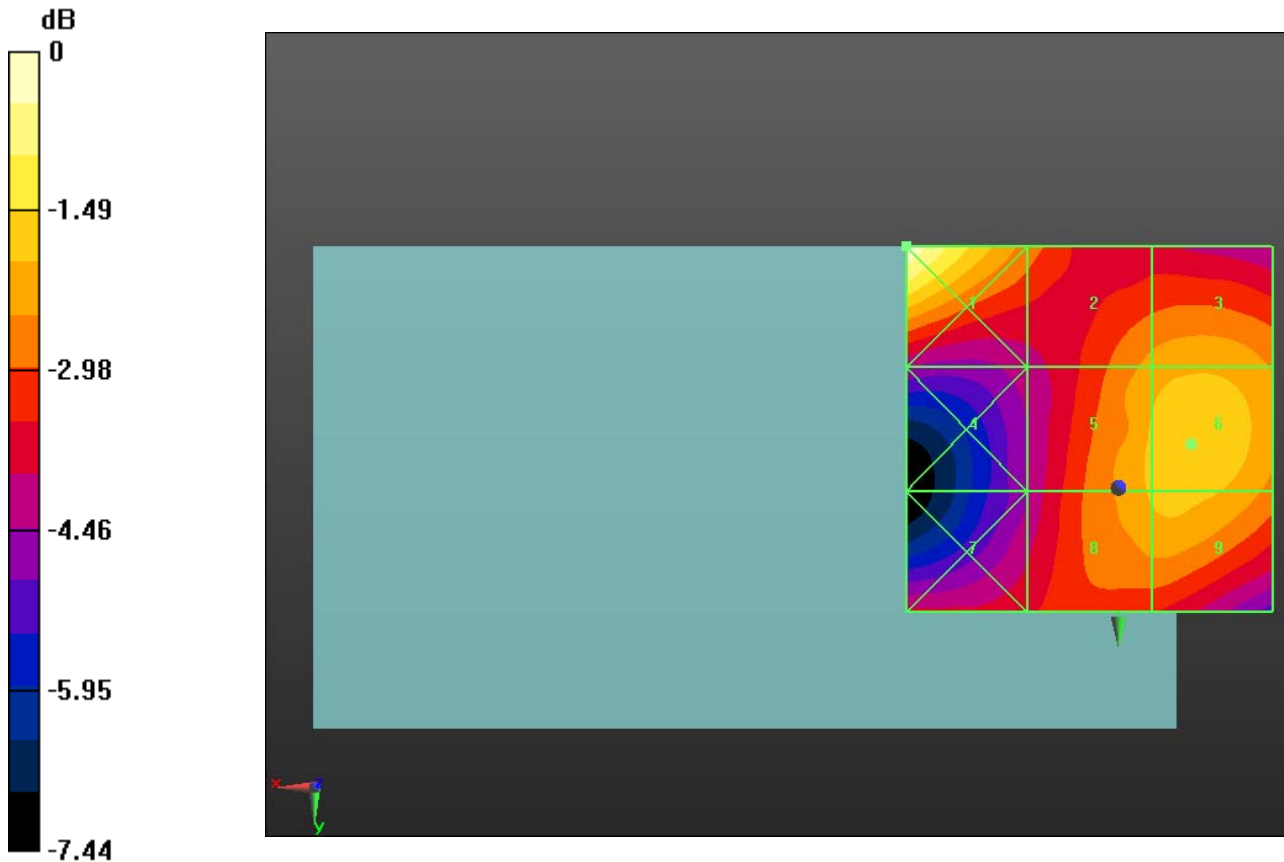
Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

**0.18 A/m      0.22 A/m      0.22 A/m**



0 dB = 0.270A/m = -11.37 dB A/m



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Date/Time: 12/18/2012 11:45:55 PM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_GSM\_1900\_Telecoil\_2100\_Battery

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9**

Communication System: GSM 1900; Frequency: 1850.2 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: 11/9/2012
- Sensor-Surface: (Fix Surface),  $z = 8.7$
- 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)

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_Centre\_Telecoil\_2100\_Battery/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.08 V/m; Power Drift = -0.06 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.22 A/m

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

PMF scaled H-field

Grid 1 <b>M2</b> <b>0.27 A/m</b>	Grid 2 <b>M3</b> <b>0.20 A/m</b>	Grid 3 <b>M3</b> <b>0.21 A/m</b>
Grid 4 <b>M3</b> <b>0.16 A/m</b>	Grid 5 <b>M3</b> <b>0.21 A/m</b>	Grid 6 <b>M3</b> <b>0.22 A/m</b>
Grid 7 <b>M3</b>	Grid 8 <b>M3</b>	Grid 9 <b>M3</b>

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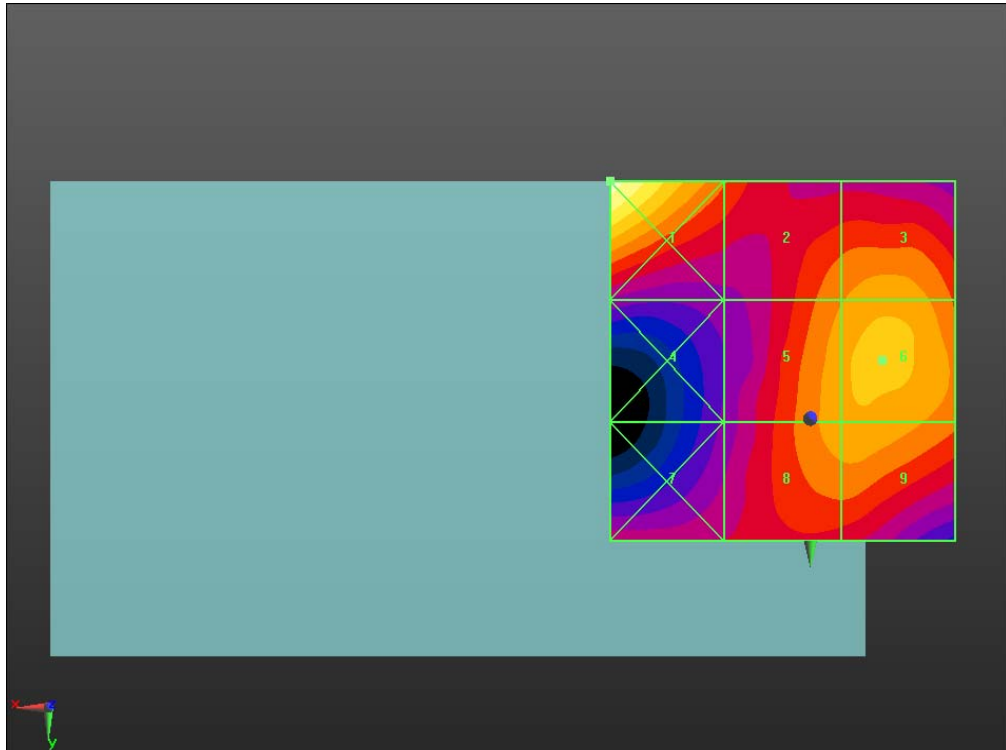
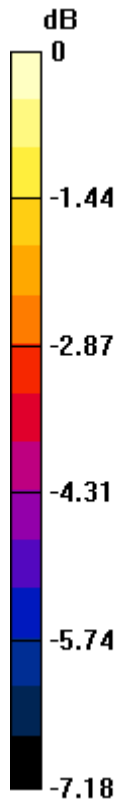
Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**


Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

**0.17 A/m      0.21 A/m      0.22 A/m**



0 dB = 0.270A/m = -11.37 dB A/m

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Date/Time: 12/18/2012 11:49:35 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9**

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz, Frequency: 1880 MHz, Frequency: 1907.6 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: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- 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)

### 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.08 V/m; Power Drift = 0.06 dB


PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.09 A/m

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

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.08 A/m</b>	Grid 2 <b>M4</b> <b>0.08 A/m</b>	Grid 3 <b>M4</b> <b>0.09 A/m</b>
Grid 4 <b>M4</b> <b>0.07 A/m</b>	Grid 5 <b>M4</b> <b>0.09 A/m</b>	Grid 6 <b>M4</b> <b>0.09 A/m</b>

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Grid 7 <b>M4</b> <b>0.08 A/m</b>	Grid 8 <b>M4</b> <b>0.08 A/m</b>	Grid 9 <b>M4</b> <b>0.08 A/m</b>
-------------------------------------	-------------------------------------	-------------------------------------

**Cursor:**

Total = 0.087 A/m  
H Category: M4  
Location: -12, -5, 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.08 V/m; Power Drift = 0.06 dB  
PMR not calibrated. PMF = 1.000 is applied.  
H-field emissions = 0.09 A/m

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

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.08 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>0.07 A/m</b>	Grid 5 <b>M4</b> <b>0.09 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>0.08 A/m</b>	Grid 9 <b>M4</b> <b>0.08 A/m</b>

**Cursor:**

Total = 0.090 A/m  
H Category: M4  
Location: -12, -4, 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):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.08 V/m; Power Drift = 0.23 dB  
PMR not calibrated. PMF = 1.000 is applied.  
H-field emissions = 0.09 A/m

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

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
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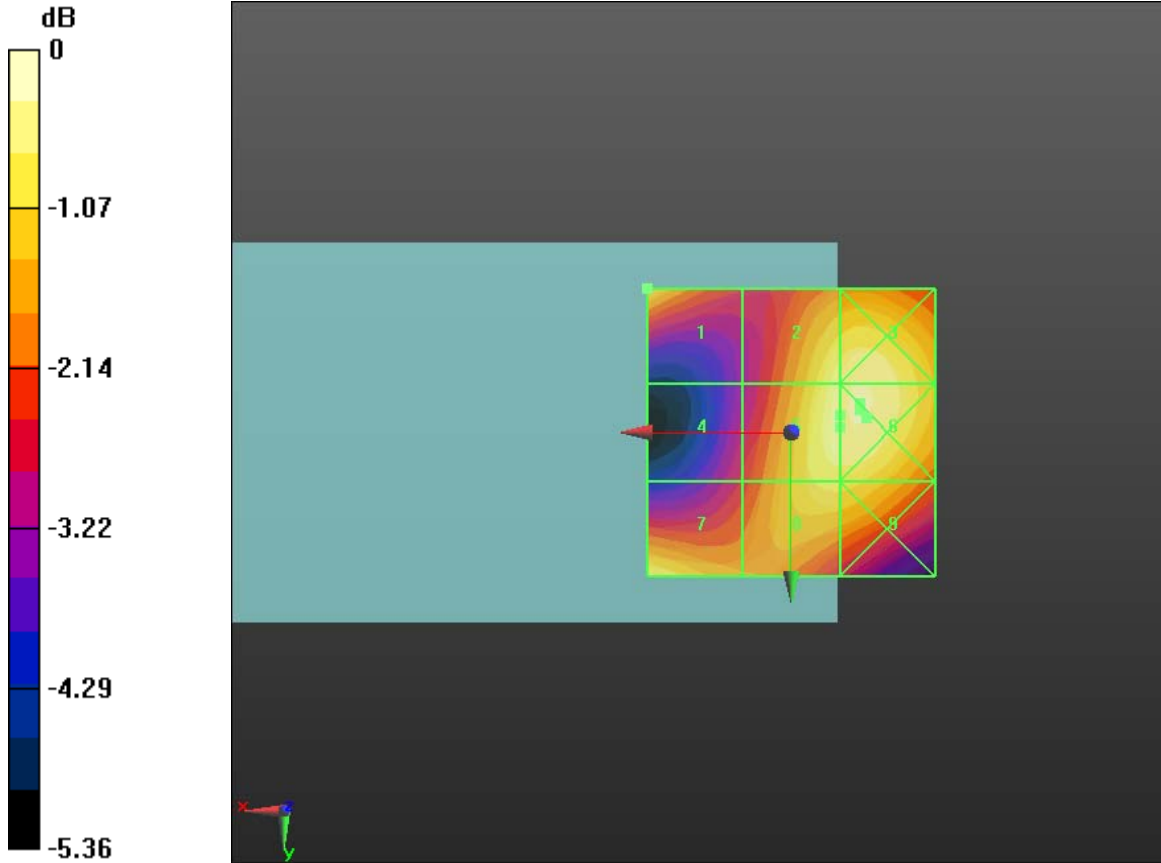
Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.09 A/m</b>	Grid 2 <b>M4</b> <b>0.08 A/m</b>	Grid 3 <b>M4</b> <b>0.08 A/m</b>
Grid 4 <b>M4</b> <b>0.06 A/m</b>	Grid 5 <b>M4</b> <b>0.08 A/m</b>	Grid 6 <b>M4</b> <b>0.09 A/m</b>
Grid 7 <b>M4</b> <b>0.07 A/m</b>	Grid 8 <b>M4</b> <b>0.08 A/m</b>	Grid 9 <b>M4</b> <b>0.08 A/m</b>

**Cursor:**  
 Total = 0.086 A/m  
 H Category: M4  
 Location: -13, -2.5, 8.7 mm



0 dB = 0.090A/m = -20.92 dB A/m

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Date/Time: 12/19/2012 10:36:06 AM

Test Laboratory: RIM Testing Services

## HAC RF\_H-Field\_GSM 850

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0BA5**

Communication System: GSM 850; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 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: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

### Device H-Field GSM 850\_meaurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_low\_chan/Hearing Aid

**Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.07 V/m; Power Drift = 0.08 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.42 A/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.42 A/m</b>	Grid 2 <b>M4</b> <b>0.30 A/m</b>	Grid 3 <b>M4</b> <b>0.19 A/m</b>
Grid 4 <b>M4</b> <b>0.36 A/m</b>	Grid 5 <b>M4</b> <b>0.26 A/m</b>	Grid 6 <b>M4</b> <b>0.16 A/m</b>

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Grid 7 <b>M4</b> <b>0.35 A/m</b>	Grid 8 <b>M4</b> <b>0.25 A/m</b>	Grid 9 <b>M4</b> <b>0.15 A/m</b>
-------------------------------------	-------------------------------------	-------------------------------------

**Cursor:**

Total = 0.419 A/m  
H Category: M4  
Location: 25, -25, 8.7 mm


**Device H-Field GSM 850\_measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_mid\_chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.08 V/m; Power Drift = -0.04 dB  
PMR not calibrated. PMF = 2.890 is applied.  
H-field emissions = 0.44 A/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.44 A/m</b>	Grid 2 <b>M4</b> <b>0.33 A/m</b>	Grid 3 <b>M4</b> <b>0.23 A/m</b>
Grid 4 <b>M4</b> <b>0.38 A/m</b>	Grid 5 <b>M4</b> <b>0.28 A/m</b>	Grid 6 <b>M4</b> <b>0.19 A/m</b>
Grid 7 <b>M4</b> <b>0.37 A/m</b>	Grid 8 <b>M4</b> <b>0.26 A/m</b>	Grid 9 <b>M4</b> <b>0.16 A/m</b>

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**Cursor:**

Total = 0.439 A/m  
H Category: M4  
Location: 25, -25, 8.7 mm

**Device H-Field GSM 850\_measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_high\_chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.08 V/m; Power Drift = 0.10 dB  
PMR not calibrated. PMF = 2.890 is applied.  
H-field emissions = 0.43 A/m

**Near-field category: M4 (AWF -5 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.43 A/m</b>	Grid 2 <b>M4</b> <b>0.32 A/m</b>	Grid 3 <b>M4</b> <b>0.22 A/m</b>
Grid 4 <b>M4</b> <b>0.38 A/m</b>	Grid 5 <b>M4</b> <b>0.28 A/m</b>	Grid 6 <b>M4</b> <b>0.19 A/m</b>
Grid 7 <b>M4</b> <b>0.38 A/m</b>	Grid 8 <b>M4</b> <b>0.28 A/m</b>	Grid 9 <b>M4</b> <b>0.18 A/m</b>

**Cursor:**

Total = 0.431 A/m  
H Category: M4  
Location: 25, -25, 8.7 mm

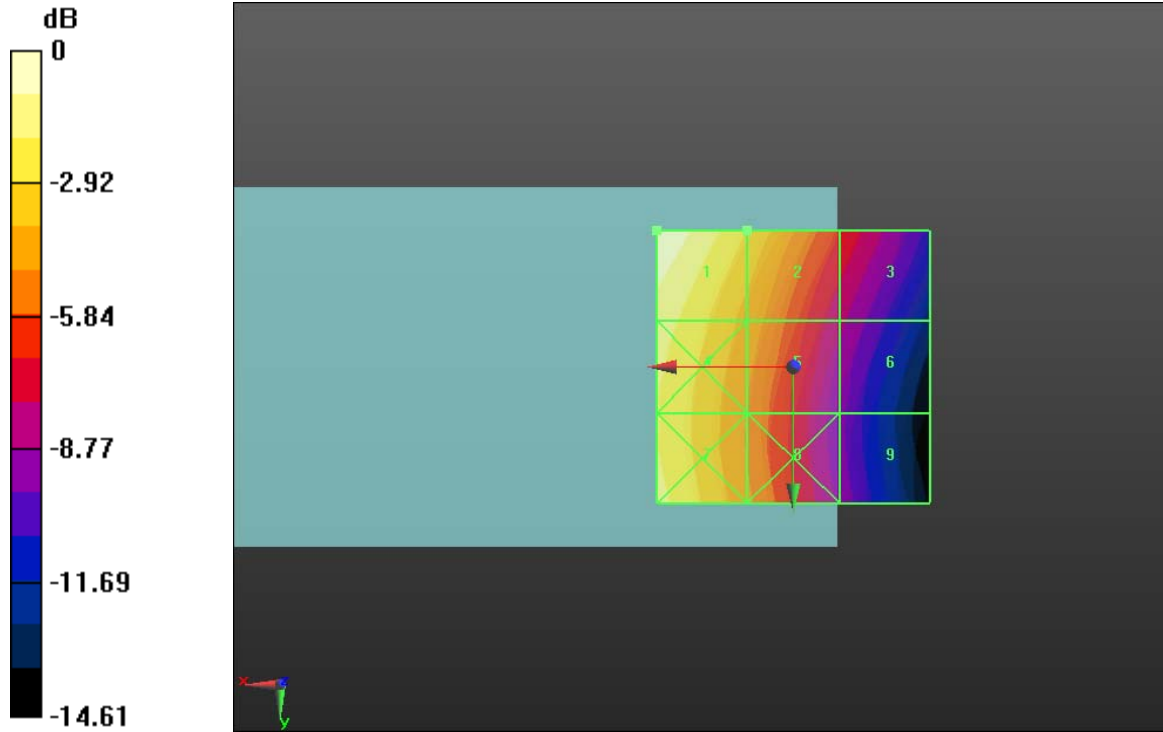


Author Data  
**Daoud Attayi**


Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
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Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**



0 dB = 0.420A/m = -7.54 dB A/m

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Date/Time: 12/19/2012 10:49:32 AM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_GSM 850\_center of telecoil

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0BA5**

Communication System: GSM 850; Frequency: 836.8 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: 11/9/2012
- Sensor-Surface: (Fix Surface),  $z = 8.7$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Device H-Field GSM 850\_meaurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_Centre\_Telecoil/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.07 V/m; Power Drift = -0.06 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.49 A/m

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

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.49 A/m</b>	Grid 2 <b>M4</b> <b>0.38 A/m</b>	Grid 3 <b>M4</b> <b>0.26 A/m</b>
Grid 4 <b>M4</b> <b>0.42 A/m</b>	Grid 5 <b>M4</b> <b>0.32 A/m</b>	Grid 6 <b>M4</b> <b>0.22 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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Author Data  
**Daoud Attayi**

Dates of Test  
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 Feb. 13-14, 2013**

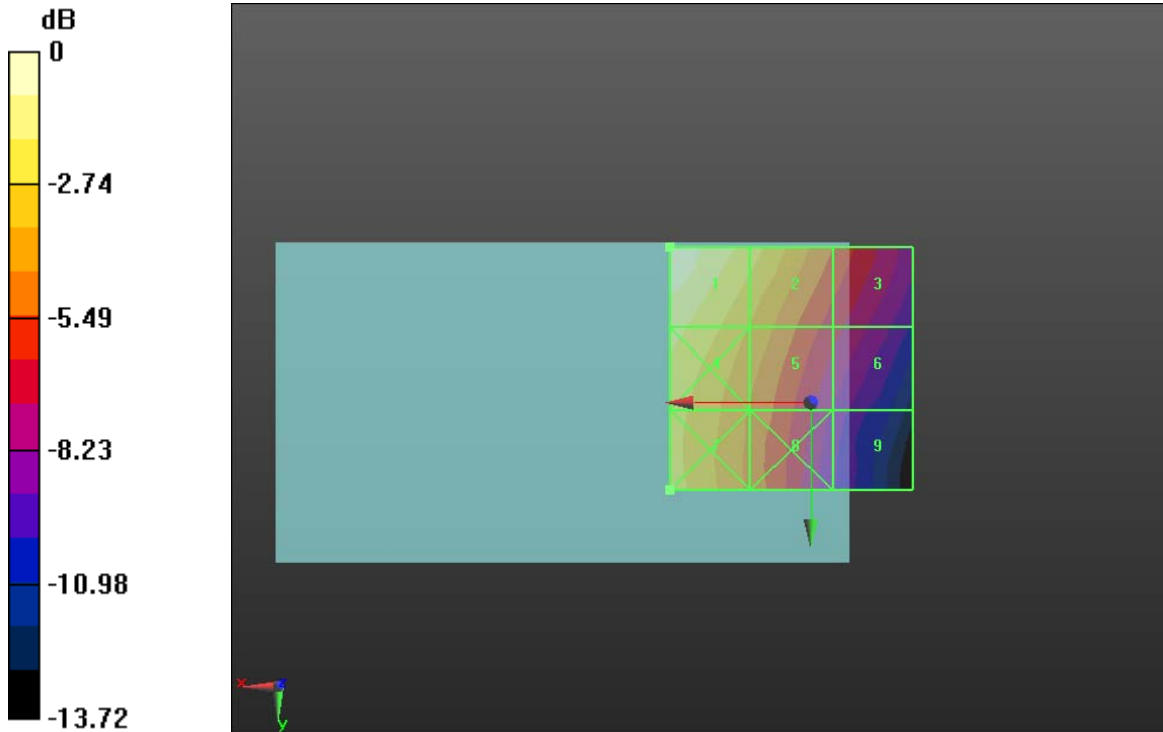
Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**



**Cursor:**

Total = 0.489 A/m  
 H Category: M3  
 Location: 29, -32, 8.7 mm



0 dB = 0.490A/m = -6.20 dB A/m

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Date/Time: 12/19/2012 11:17:46 AM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_UMTS band V

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0BA5**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz, Frequency: 836.4 MHz, Frequency: 846.6 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: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Device H-Field UMTS band V\_measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_low\_chan/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.07 V/m; Power Drift = 0.11 dB


PMR not calibrated. PMF = 1.090 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>0.16 A/m</b>	Grid 2 <b>M4</b> <b>0.11 A/m</b>	Grid 3 <b>M4</b> <b>0.07 A/m</b>
Grid 4 <b>M4</b> <b>0.14 A/m</b>	Grid 5 <b>M4</b> <b>0.10 A/m</b>	Grid 6 <b>M4</b> <b>0.06 A/m</b>

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Grid 7 <b>M4</b> <b>0.14 A/m</b>	Grid 8 <b>M4</b> <b>0.10 A/m</b>	Grid 9 <b>M4</b> <b>0.06 A/m</b>
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**Cursor:**  
Total = 0.157 A/m  
H Category: M4  
Location: 25, -25, 8.7 mm


**Device H-Field UMTS band V\_measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_mid\_chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.07 V/m; Power Drift = -0.02 dB  
PMR not calibrated. PMF = 1.090 is applied.  
H-field emissions = 0.17 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>0.12 A/m</b>	Grid 3 <b>M4</b> <b>0.08 A/m</b>
Grid 4 <b>M4</b> <b>0.14 A/m</b>	Grid 5 <b>M4</b> <b>0.11 A/m</b>	Grid 6 <b>M4</b> <b>0.07 A/m</b>
Grid 7 <b>M4</b> <b>0.15 A/m</b>	Grid 8 <b>M4</b> <b>0.11 A/m</b>	Grid 9 <b>M4</b> <b>0.07 A/m</b>

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**Cursor:**

Total = 0.166 A/m  
H Category: M4  
Location: 25, -25, 8.7 mm

**Device H-Field UMTS band V\_measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_high\_chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.09 V/m; Power Drift = 0.09 dB  
PMR not calibrated. PMF = 1.090 is applied.  
H-field emissions = 0.18 A/m

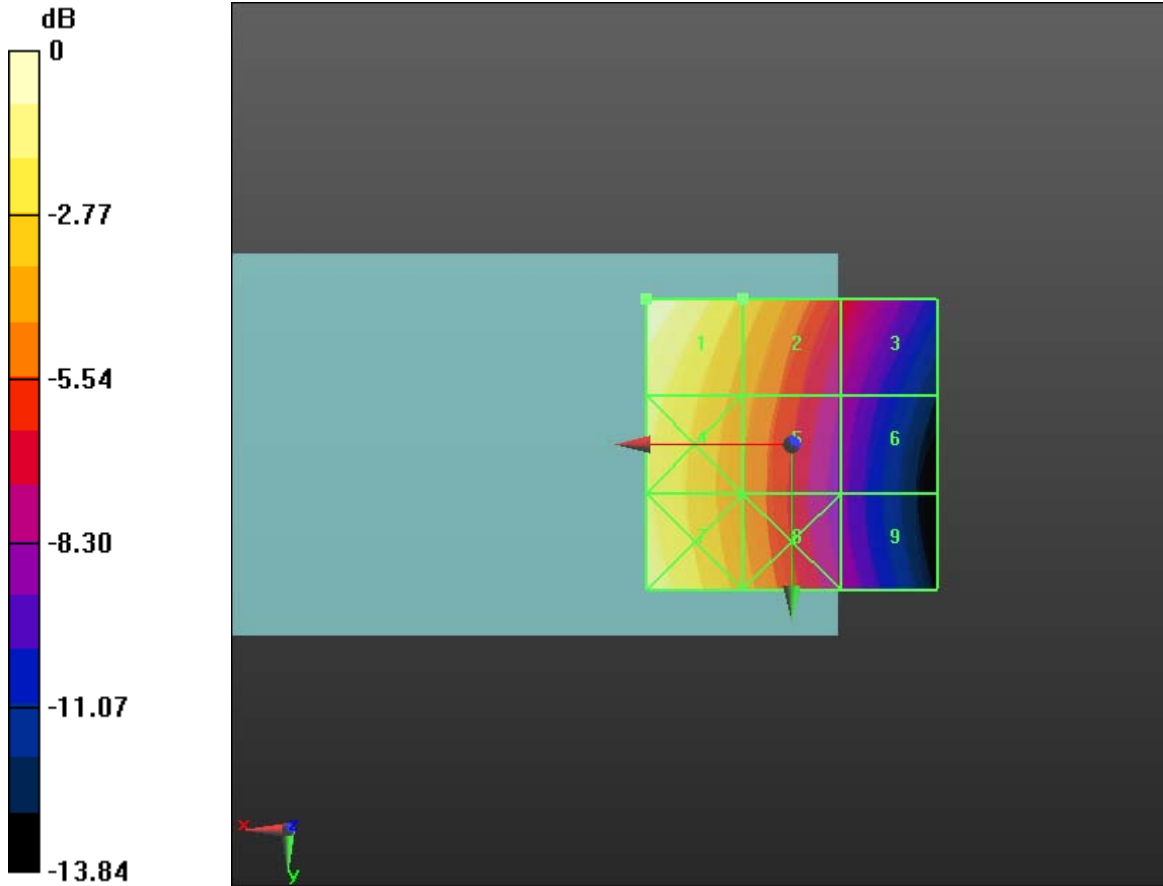
**Near-field category: M4 (AWF 0 dB)**

PMF scaled H-field

Grid 1 <b>M4</b> <b>0.18 A/m</b>	Grid 2 <b>M4</b> <b>0.14 A/m</b>	Grid 3 <b>M4</b> <b>0.09 A/m</b>
Grid 4 <b>M4</b> <b>0.16 A/m</b>	Grid 5 <b>M4</b> <b>0.12 A/m</b>	Grid 6 <b>M4</b> <b>0.08 A/m</b>
Grid 7 <b>M4</b> <b>0.17 A/m</b>	Grid 8 <b>M4</b> <b>0.13 A/m</b>	Grid 9 <b>M4</b> <b>0.09 A/m</b>

**Cursor:**

Total = 0.184 A/m  
H Category: M4  
Location: 25, -25, 8.7 mm



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

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Date/Time: 12/19/2012 11:32:58 AM

Test Laboratory: RIM Testing Services

### HAC RF\_H-Field\_UMTS band IV

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0BA5**

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 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: 11/9/2012
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Device H-Field UMTS band IV\_measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_low\_chan/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.09 V/m; Power Drift = -0.04 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>0.10 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>0.08 A/m</b>	Grid 5 <b>M4</b> <b>0.09 A/m</b>	Grid 6 <b>M4</b> <b>0.09 A/m</b>



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Grid 7 <b>M4</b> <b>0.08 A/m</b>	Grid 8 <b>M4</b> <b>0.08 A/m</b>	Grid 9 <b>M4</b> <b>0.08 A/m</b>
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**Cursor:**  
Total = 0.097 A/m  
H Category: M4  
Location: 25, -25, 8.7 mm

**Device H-Field UMTS band IV\_measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_mid\_chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.09 V/m; Power Drift = -0.01 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>0.10 A/m</b>	Grid 3 <b>M4</b> <b>0.10 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>0.09 A/m</b>	Grid 9 <b>M4</b> <b>0.09 A/m</b>

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**Cursor:**

Total = 0.100 A/m  
H Category: M4  
Location: -11, -14.5, 8.7 mm

**Device H-Field UMTS band IV\_meaurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_high\_chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 0.10 V/m; Power Drift = -0.01 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>0.11 A/m</b>	Grid 3 <b>M4</b> <b>0.11 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>0.11 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:**

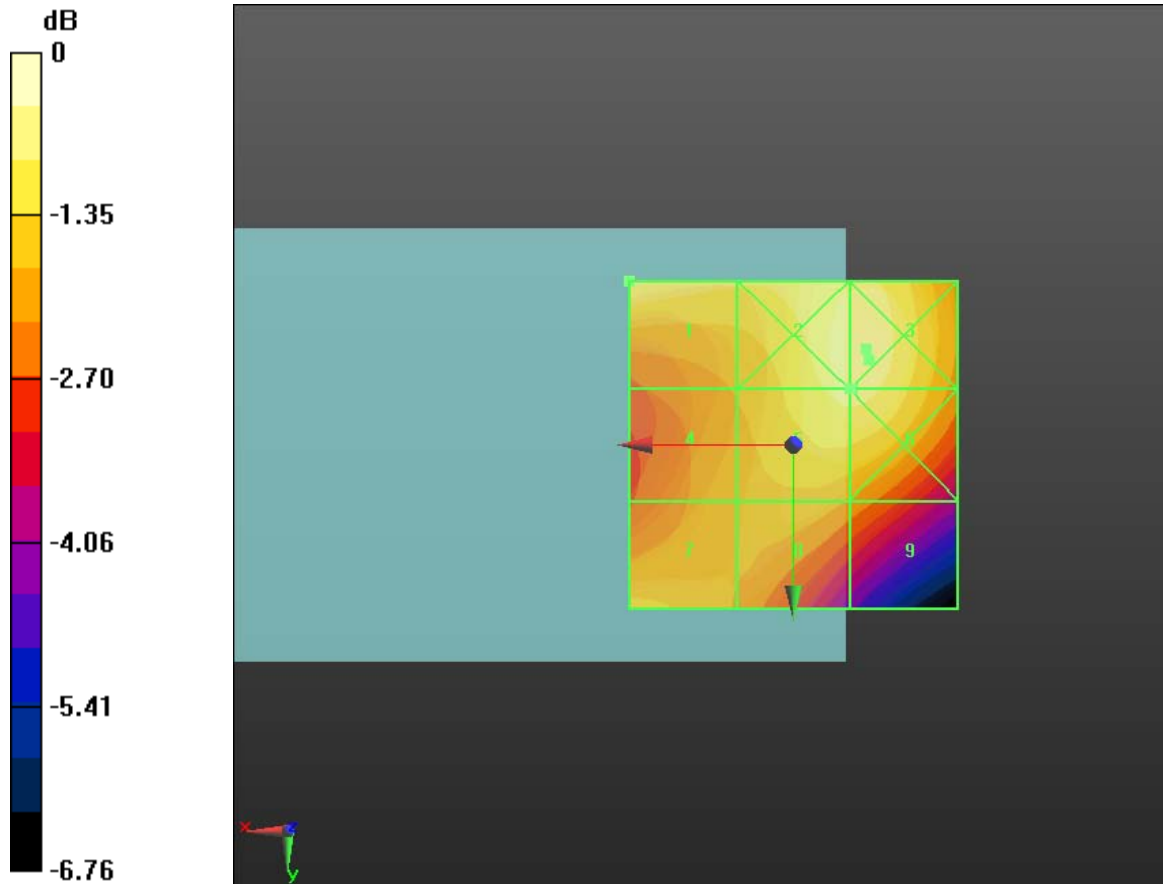
Total = 0.106 A/m  
H Category: M4  
Location: -11.5, -13, 8.7 mm

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
L6ARFP120LW**



0 dB = 0.100A/m = -20.00 dB A/m

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## HAC RF\_H-Field\_02\_14\_13\_Rev 2\_speaker

### Device H-Field GSM 1900\_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 = 0.06400 A/m; Power Drift = -0.13 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.1812 A/m

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

PMF scaled H-field

Grid 1 <b>M3</b> <b>0.249 A/m</b>	Grid 2 <b>M3</b> <b>0.204 A/m</b>	Grid 3 <b>M3</b> <b>0.162 A/m</b>
Grid 4 <b>M3</b> <b>0.190 A/m</b>	Grid 5 <b>M3</b> <b>0.181 A/m</b>	Grid 6 <b>M3</b> <b>0.162 A/m</b>
Grid 7 <b>M3</b> <b>0.147 A/m</b>	Grid 8 <b>M3</b> <b>0.150 A/m</b>	Grid 9 <b>M3</b> <b>0.141 A/m</b>

**Cursor:**

Total = 0.2486 A/m

H Category: M3

Location: 25, -25, 8.7 mm

### Device H-Field GSM 1900\_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 = 0.06000 A/m; Power Drift = -0.13 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.1658 A/m

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

PMF scaled H-field

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<b>Grid 1 M3</b> <b>0.199 A/m</b>	<b>Grid 2 M3</b> <b>0.173 A/m</b>	<b>Grid 3 M3</b> <b>0.152 A/m</b>
<b>Grid 4 M3</b> <b>0.168 A/m</b>	<b>Grid 5 M3</b> <b>0.166 A/m</b>	<b>Grid 6 M3</b> <b>0.152 A/m</b>
<b>Grid 7 M3</b> <b>0.149 A/m</b>	<b>Grid 8 M3</b> <b>0.148 A/m</b>	<b>Grid 9 M4</b> <b>0.136 A/m</b>

**Cursor:**  
 Total = 0.1994 A/m  
 H Category: M3  
 Location: 25, -25, 8.7 mm

**Device H-Field GSM 1900\_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 = 0.05600 A/m; Power Drift = -0.08 dB  
 PMR not calibrated. PMF = 2.860 is applied.  
 H-field emissions = 0.1521 A/m  
**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field

<b>Grid 1 M3</b> <b>0.152 A/m</b>	<b>Grid 2 M3</b> <b>0.143 A/m</b>	<b>Grid 3 M3</b> <b>0.142 A/m</b>
<b>Grid 4 M3</b> <b>0.141 A/m</b>	<b>Grid 5 M3</b> <b>0.144 A/m</b>	<b>Grid 6 M3</b> <b>0.144 A/m</b>
<b>Grid 7 M3</b> <b>0.152 A/m</b>	<b>Grid 8 M4</b> <b>0.136 A/m</b>	<b>Grid 9 M4</b> <b>0.132 A/m</b>

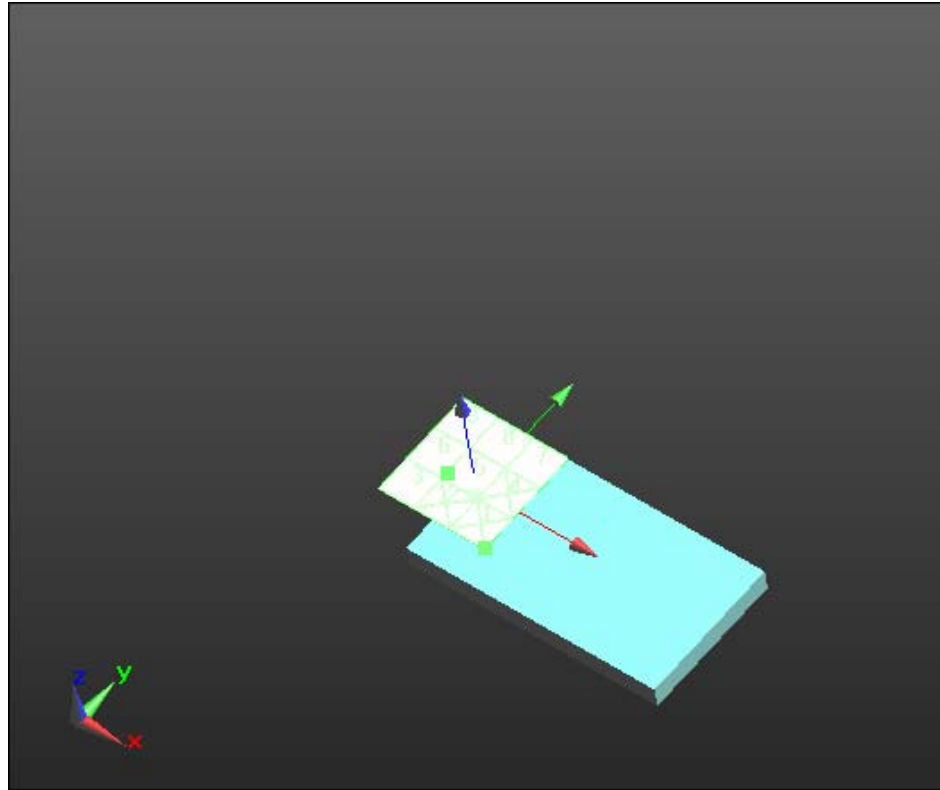
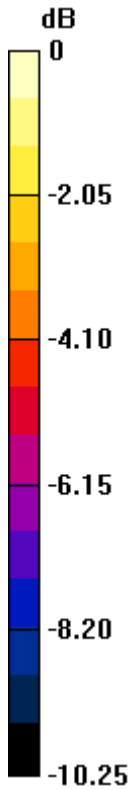
**Cursor:**  
 Total = 0.1523 A/m  
 H Category: M3  
 Location: 25, -25, 8.7 mm

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
L6ARFP120LW**



0 dB = 0.2505 A/m = -12.02 dBA/m

SEMCAD X Version 14.6.8 (7028)

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**HAC RF\_H-Field\_02\_14\_13\_Rev 2\_telecoil**

**Device H-Field GSM 1900\_measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_Centre\_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 = 0.06300 A/m; Power Drift = 0.01 dB  
PMR not calibrated. PMF = 2.860 is applied.  
H-field emissions = 0.1939 A/m  
**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field

Grid 1 <b>M2</b> <b>0.271 A/m</b>	Grid 2 <b>M3</b> <b>0.225 A/m</b>	Grid 3 <b>M3</b> <b>0.168 A/m</b>
Grid 4 <b>M3</b> <b>0.217 A/m</b>	Grid 5 <b>M3</b> <b>0.194 A/m</b>	Grid 6 <b>M3</b> <b>0.167 A/m</b>
Grid 7 <b>M3</b> <b>0.160 A/m</b>	Grid 8 <b>M3</b> <b>0.163 A/m</b>	Grid 9 <b>M3</b> <b>0.158 A/m</b>

**Cursor:**

Total = 0.2710 A/m  
H Category: M2  
Location: 29, -32, 8.7 mm

**Device H-Field GSM 1900\_measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_Centre\_Telecoil\_2100\_Battery/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 = 0.06300 A/m; Power Drift = 0.15 dB  
PMR not calibrated. PMF = 2.860 is applied.  
H-field emissions = 0.1945 A/m  
**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field

Grid 1 <b>M2</b>	Grid 2 <b>M3</b>	Grid 3 <b>M3</b>
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Author Data  
**Daoud Attayi**

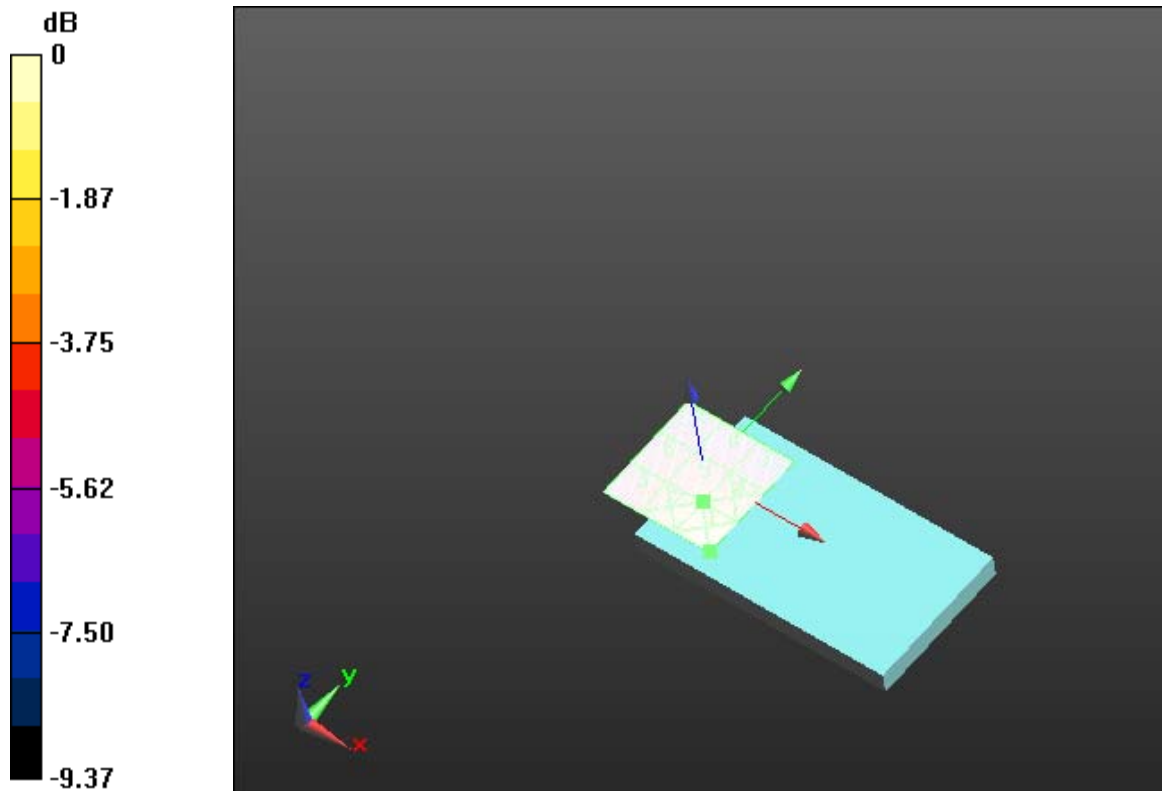
Dates of Test  
**Feb. 17, June 28, Dec. 17-19, 2012  
 Feb. 13-14, 2013**

Report No  
**RTS-6026-1302-07**

FCC ID  
**L6ARFL110LW  
 L6ARFP120LW**

<b>0.272 A/m</b>	<b>0.226 A/m</b>	<b>0.167 A/m</b>
Grid 4 <b>M3</b> <b>0.211 A/m</b>	Grid 5 <b>M3</b> <b>0.195 A/m</b>	Grid 6 <b>M3</b> <b>0.167 A/m</b>
Grid 7 <b>M3</b> <b>0.157 A/m</b>	Grid 8 <b>M3</b> <b>0.159 A/m</b>	Grid 9 <b>M3</b> <b>0.155 A/m</b>

**Cursor:**  
 Total = 0.2721 A/m  
 H Category: M2  
 Location: 29, -32, 8.7 mm



0 dB = 0.2730 A/m = -11.28 dBA/m

SEMCAD X Version 14.6.8 (7028)



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Date/Time: 12/19/2012 11:52:50 AM

Test Laboratory: RIM Testing Services

## HAC RF\_H-Field\_UMTS band II

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0BA5**

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz, Frequency: 1880 MHz, Frequency: 1907.6 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: 11/9/2012
- Sensor-Surface: (Fix Surface),  $z = 8.7$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Device H-Field UMTS band II\_measurement with H3DV6 probe 2/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_low\_chan/Hearing Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.10 V/m; Power Drift = 0.03 dB

PMR not calibrated. PMF = 1.000 is applied.


H-field emissions = 0.09 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>0.09 A/m</b>	Grid 3 <b>M4</b> <b>0.09 A/m</b>
Grid 4 <b>M4</b> <b>0.08 A/m</b>	Grid 5 <b>M4</b> <b>0.09 A/m</b>	Grid 6 <b>M4</b> <b>0.09 A/m</b>
Grid 7 <b>M4</b>	Grid 8 <b>M4</b>	Grid 9 <b>M4</b>

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<b>0.07 A/m</b>	<b>0.09 A/m</b>	<b>0.09 A/m</b>
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**Cursor:**  
 Total = 0.106 A/m  
 H Category: M4  
 Location: 25, -25, 8.7 mm

**Device H-Field UMTS band II\_measurement with H3DV6 probe  
 2/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the  
 Device\_mid\_chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.10 V/m; Power Drift = -0.02 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

<b>Grid 1 M4 0.11 A/m</b>	<b>Grid 2 M4 0.10 A/m</b>	<b>Grid 3 M4 0.10 A/m</b>
<b>Grid 4 M4 0.08 A/m</b>	<b>Grid 5 M4 0.10 A/m</b>	<b>Grid 6 M4 0.10 A/m</b>
<b>Grid 7 M4 0.07 A/m</b>	<b>Grid 8 M4 0.09 A/m</b>	<b>Grid 9 M4 0.09 A/m</b>

**Cursor:**  
 Total = 0.113 A/m  
 H Category: M4  
 Location: 25, -25, 8.7 mm

**Device H-Field UMTS band II\_measurement with H3DV6 probe  
 2/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the  
 Device\_high\_chan/Hearing Aid Compatibility Test (101x101x1):**

Measurement grid: dx=5mm, dy=5mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 0.09 V/m; Power Drift = 0.01 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 H-field emissions = 0.09 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>0.10 A/m</b>	Grid 3 <b>M4</b> <b>0.09 A/m</b>
Grid 4 <b>M4</b> <b>0.08 A/m</b>	Grid 5 <b>M4</b> <b>0.09 A/m</b>	Grid 6 <b>M4</b> <b>0.09 A/m</b>
Grid 7 <b>M4</b> <b>0.07 A/m</b>	Grid 8 <b>M4</b> <b>0.08 A/m</b>	Grid 9 <b>M4</b> <b>0.08 A/m</b>

