	Document <b>Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RFE71UW</b>		Page <b>1 (139)</b>
	Author Data <b>Daoud Attayi</b>	Dates of Test <b>Feb. 17-22, June 28-July 11, 2012</b>	Report No <b>RTS-5992-1207-35</b>

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

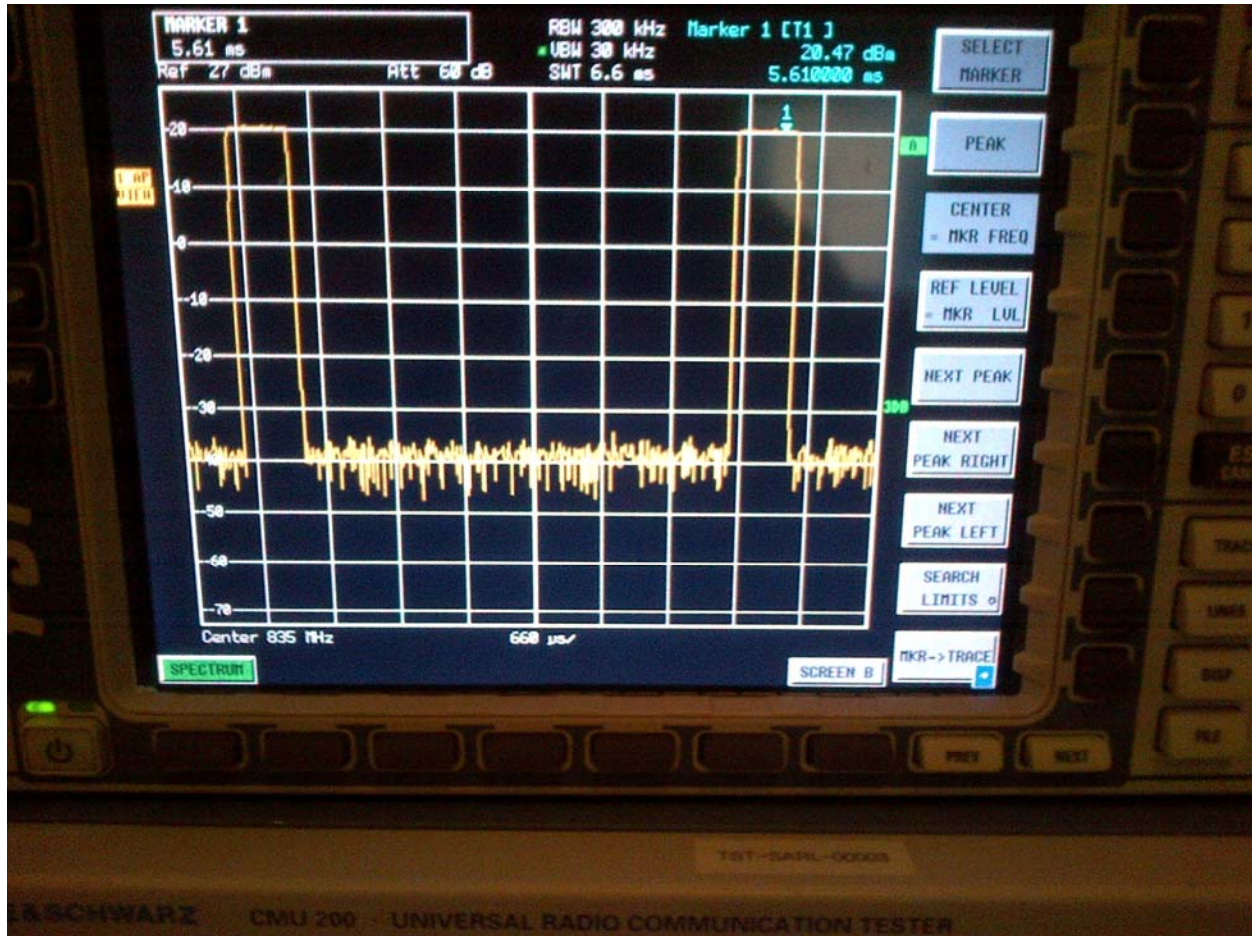
### **A.1 Spectrum analyser plots: GSM/UMTS, CW, 80%AM, signals**

Author Data  
**Daoud Attayi**

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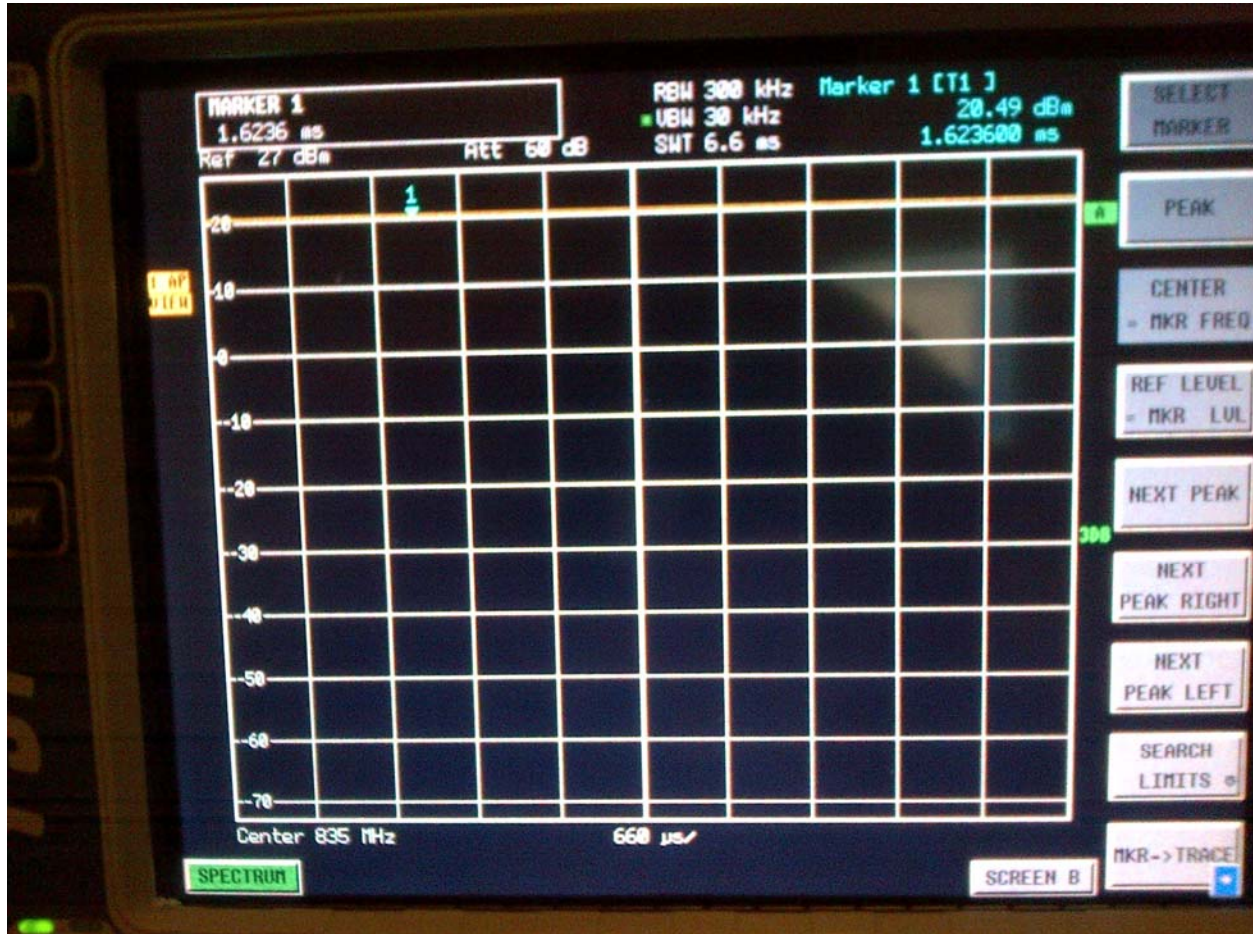
Report No  
**RTS-5992-1207-35**

FCC ID  
**L6ARFE70UW**



**GSM 835 MHz**

Author Data <b>Daoud Attayi</b>	Dates of Test <b>Feb. 17-22, June 28-July 11, 2012</b>	Report No <b>RTS-5992-1207-35</b>	FCC ID <b>L6ARFE70UW</b>
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**CW 835 MHz**

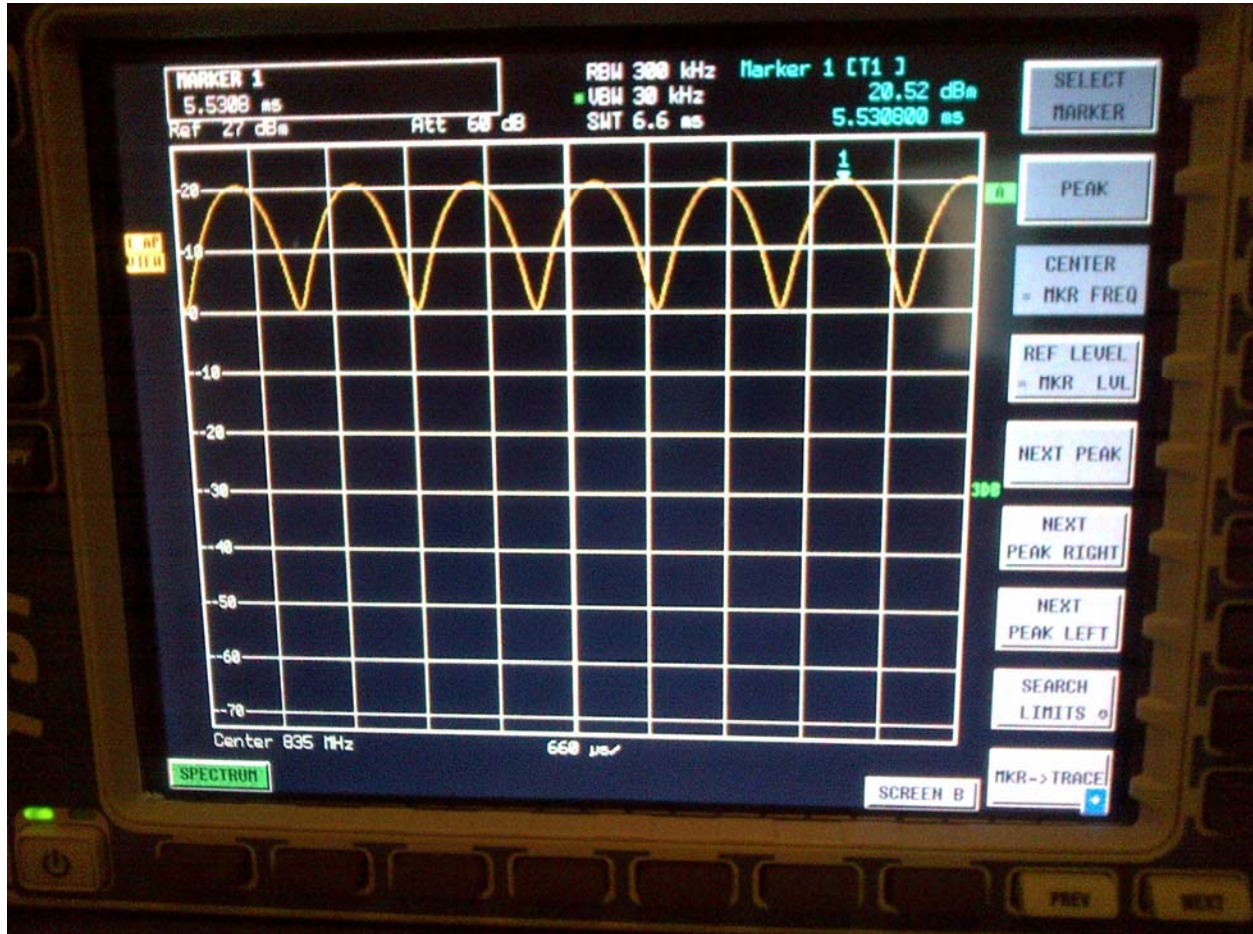


Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17-22, June 28-July 11, 2012**

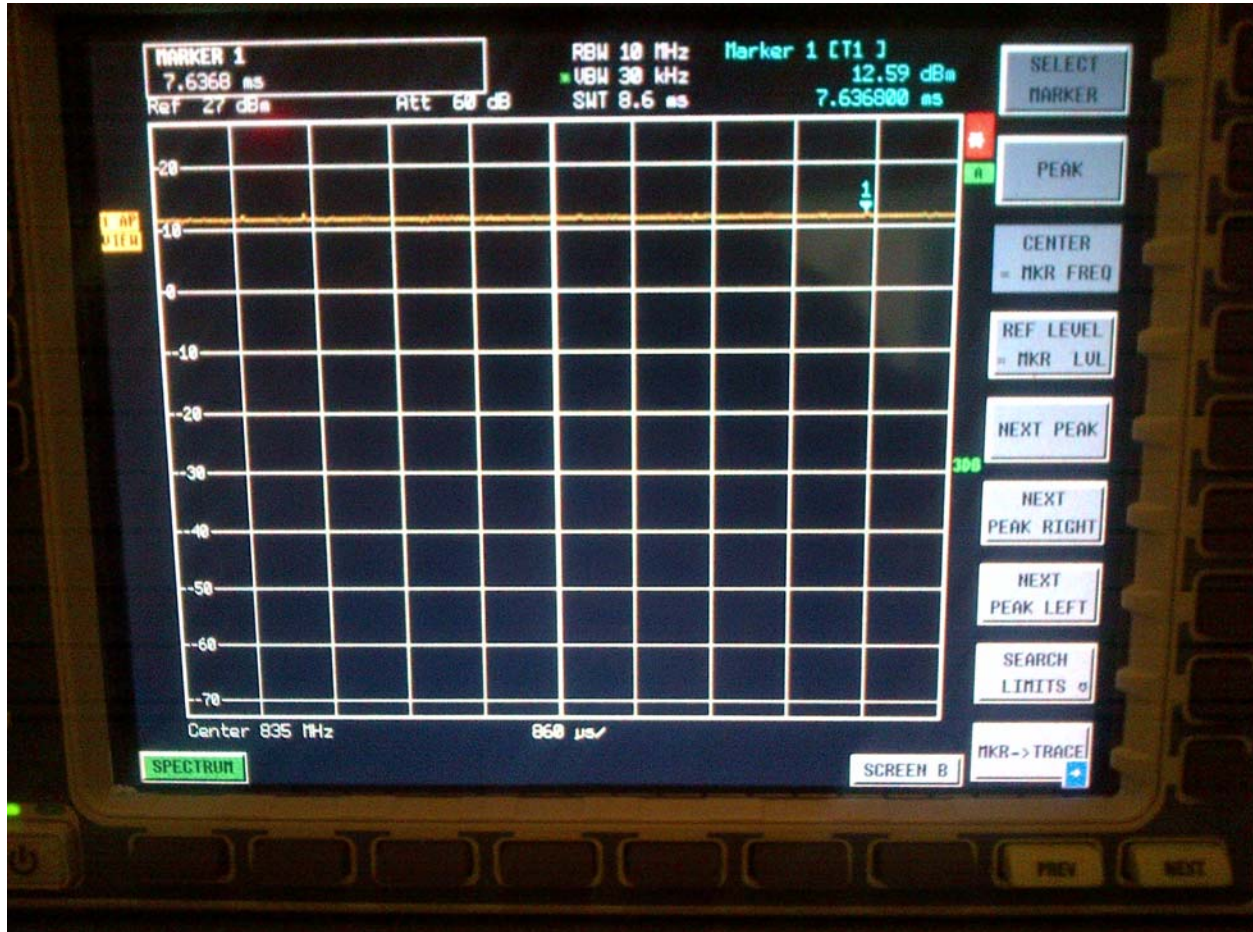
Report No  
**RTS-5992-1207-35**

FCC ID  
**L6ARFE70UW**



**AM 80% 835 MHz**

Author Data <b>Daoud Attayi</b>	Dates of Test <b>Feb. 17-22, June 28-July 11, 2012</b>	Report No <b>RTS-5992-1207-35</b>	FCC ID <b>L6ARFE70UW</b>
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**UMTS 835 MHz**

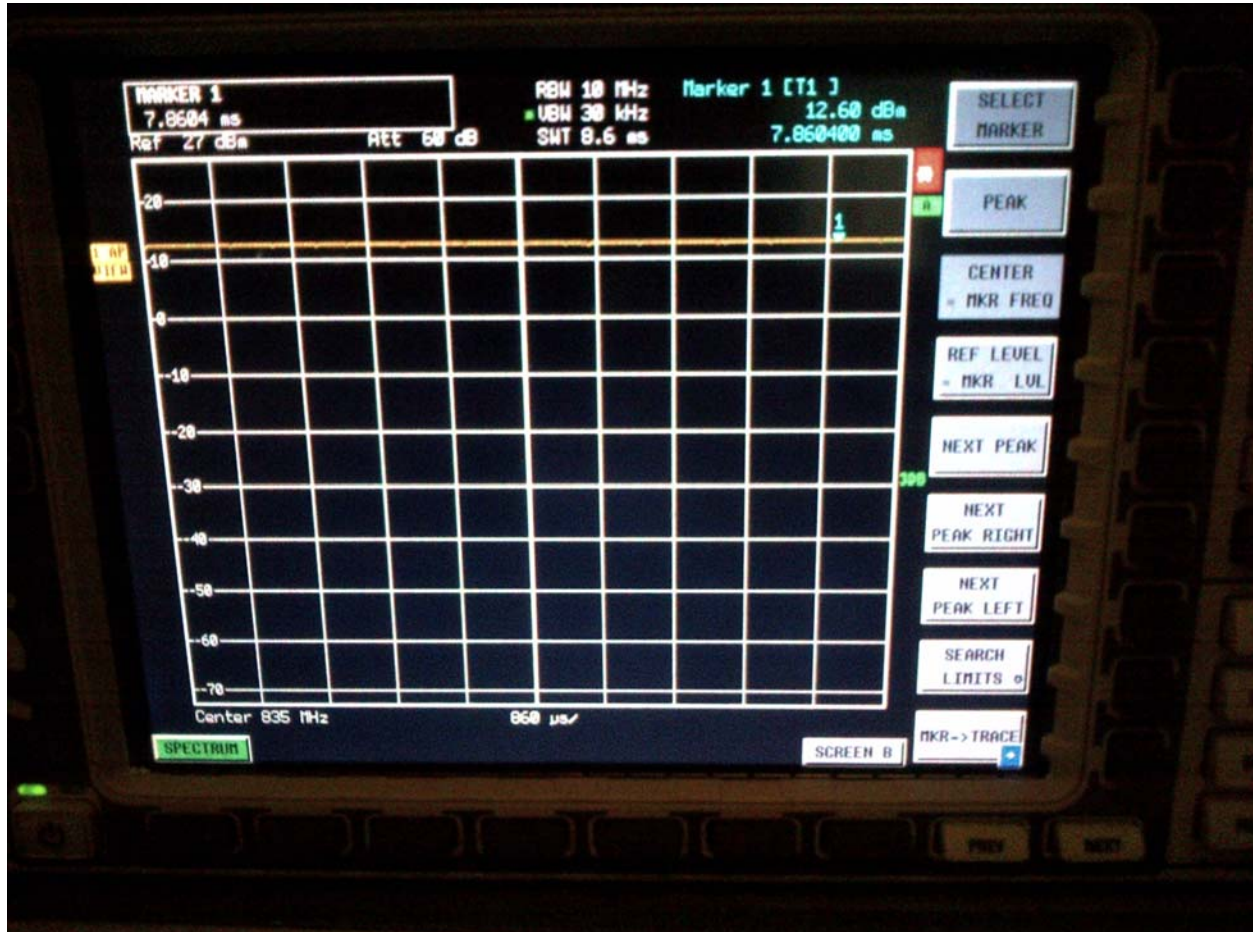


Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17-22, June 28-July 11, 2012**

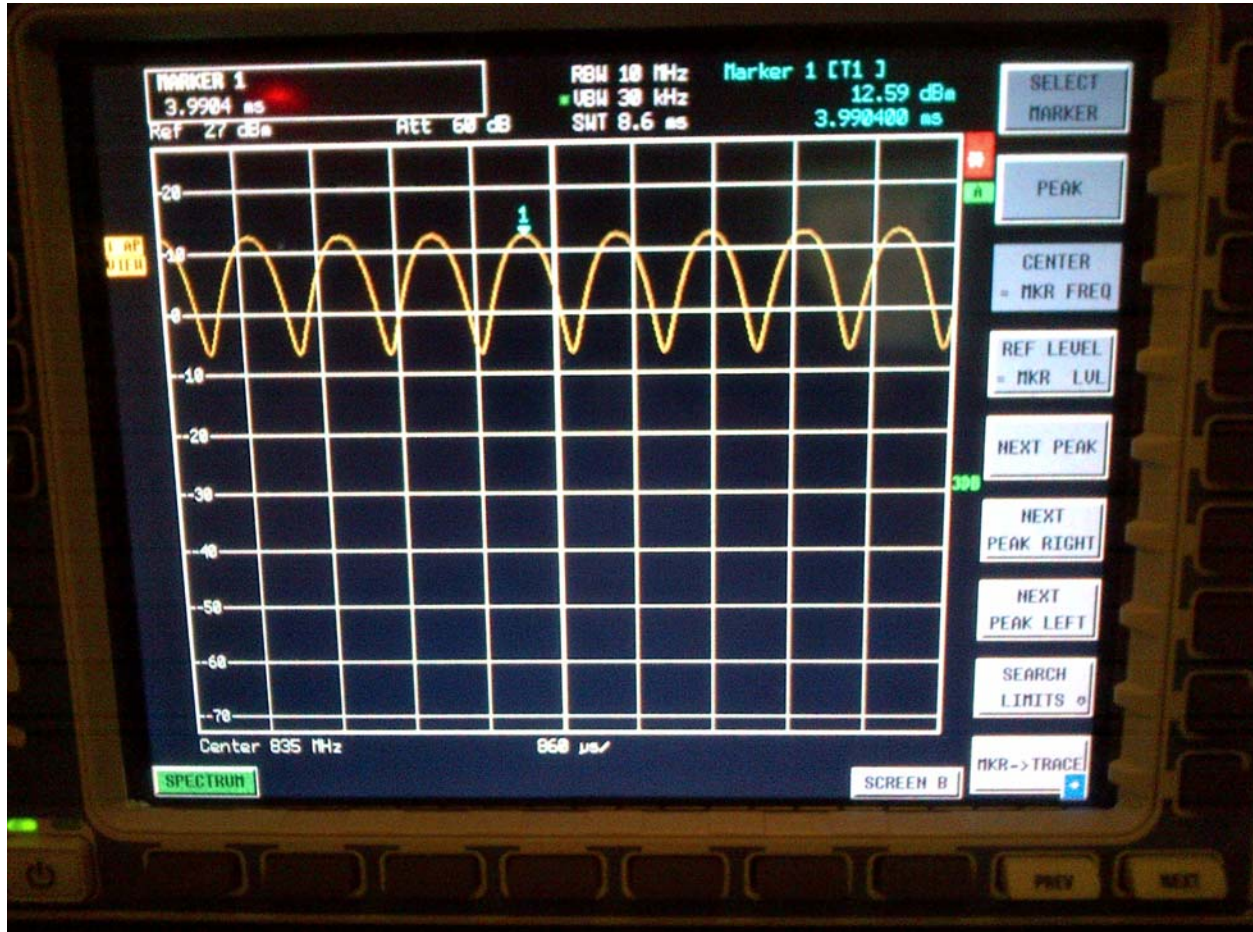
Report No  
**RTS-5992-1207-35**

FCC ID  
**L6ARFE70UW**



**CW 835 MHz**

Author Data <b>Daoud Attayi</b>	Dates of Test <b>Feb. 17-22, June 28-July 11, 2012</b>	Report No <b>RTS-5992-1207-35</b>	FCC ID <b>L6ARFE70UW</b>
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**AM 80% 835 MHz**



Author Data <b>Daoud Attayi</b>	Dates of Test <b>Feb. 17-22, June 28-July 11, 2012</b>	Report No <b>RTS-5992-1207-35</b>	FCC ID <b>L6ARFE70UW</b>
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UMTS 1733 MHz

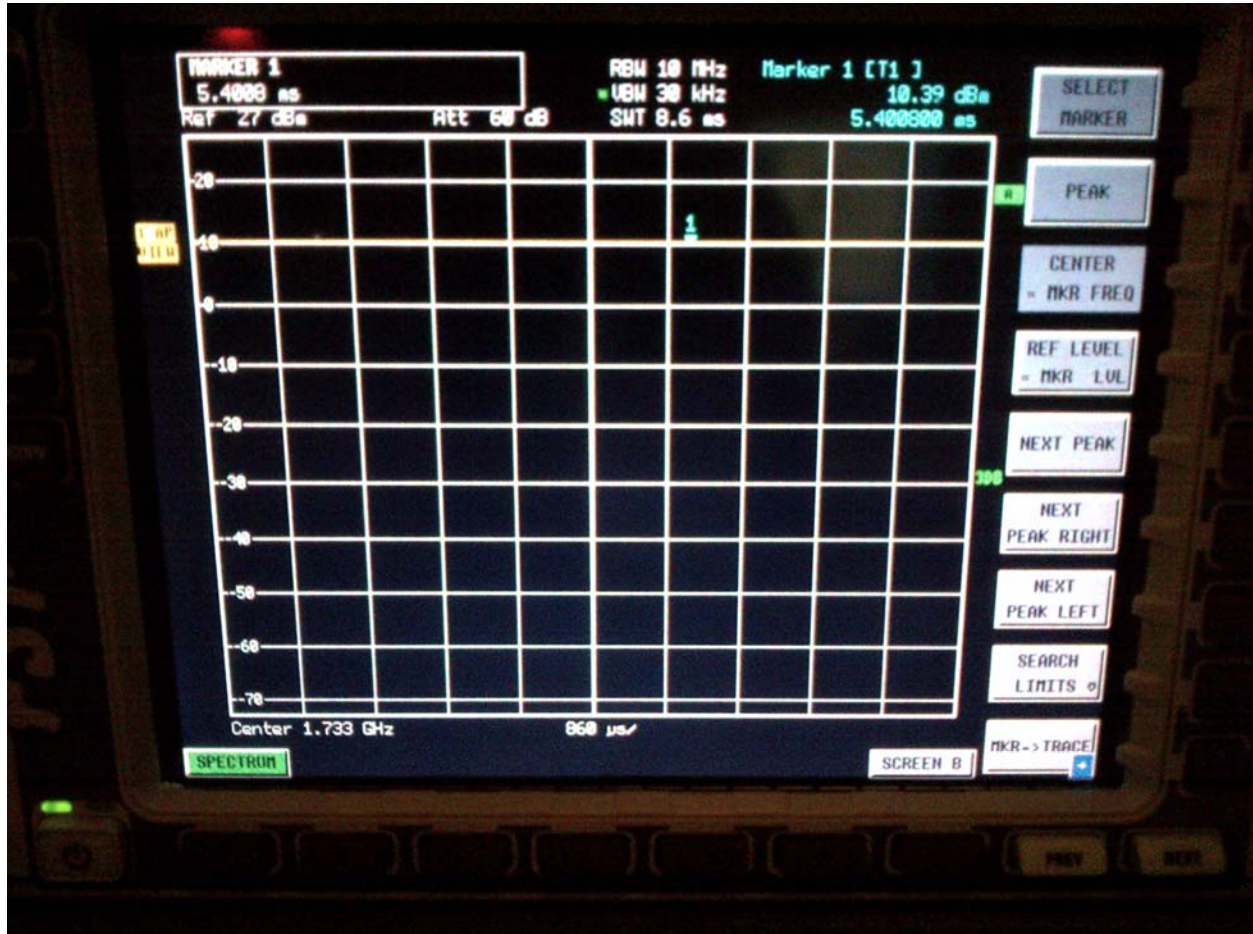


Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17-22, June 28-July 11, 2012**

Report No  
**RTS-5992-1207-35**

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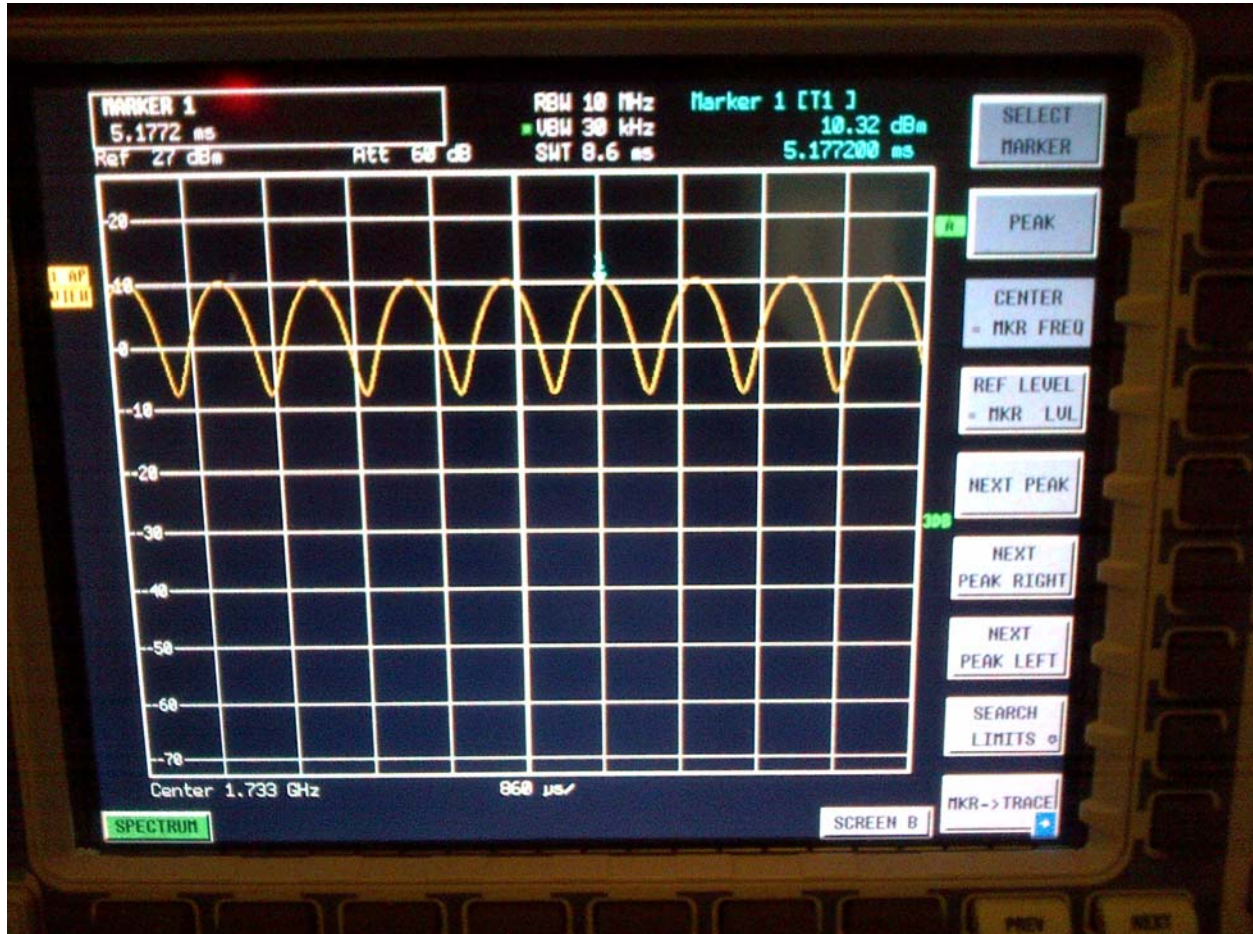
**CW 1733 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17-22, June 28-July 11, 2012**

Report No  
**RTS-5992-1207-35**

FCC ID  
**L6ARFE70UW**



**AM80% 1733 MHz**

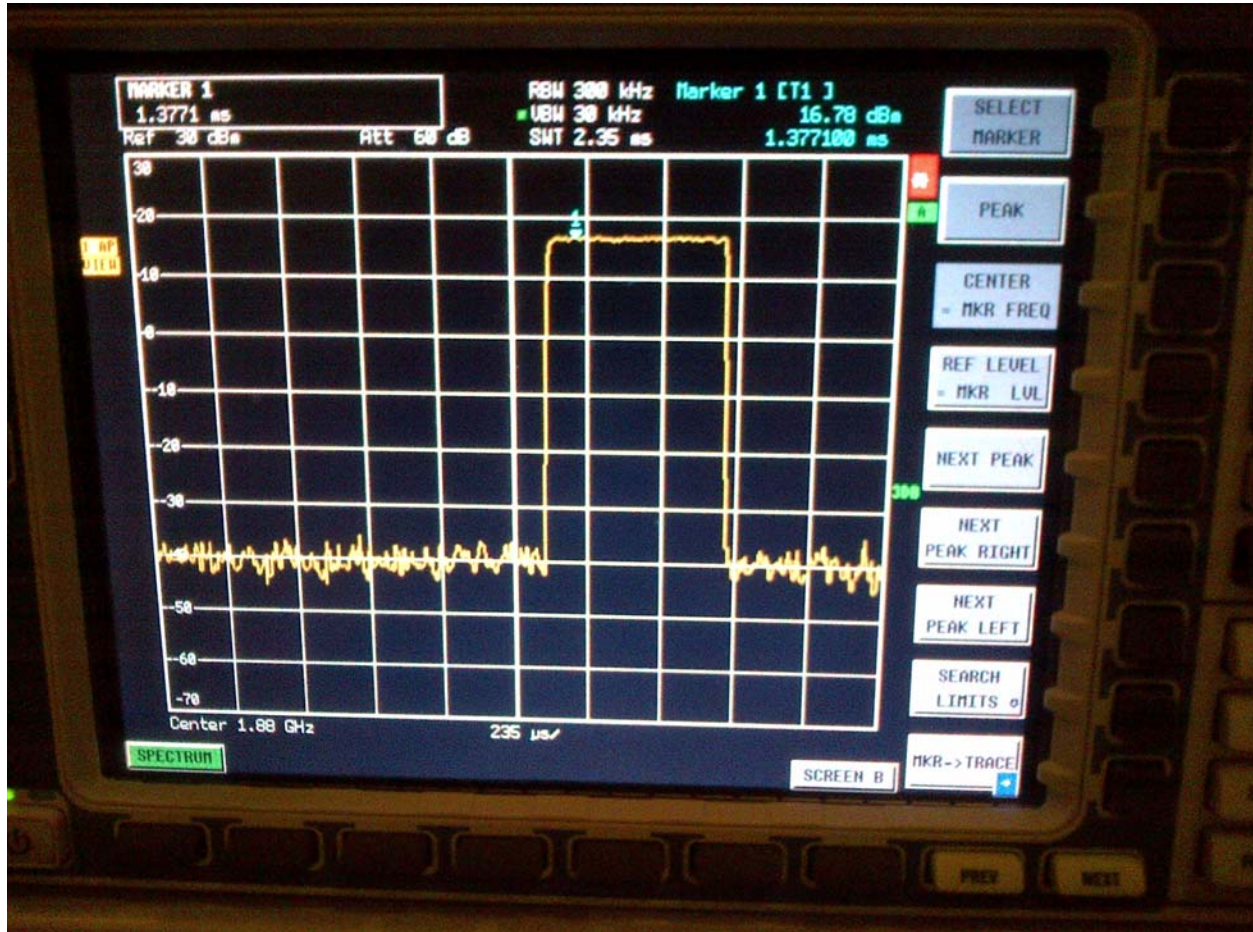


Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17-22, June 28-July 11, 2012**

Report No  
**RTS-5992-1207-35**

FCC ID  
**L6ARFE70UW**



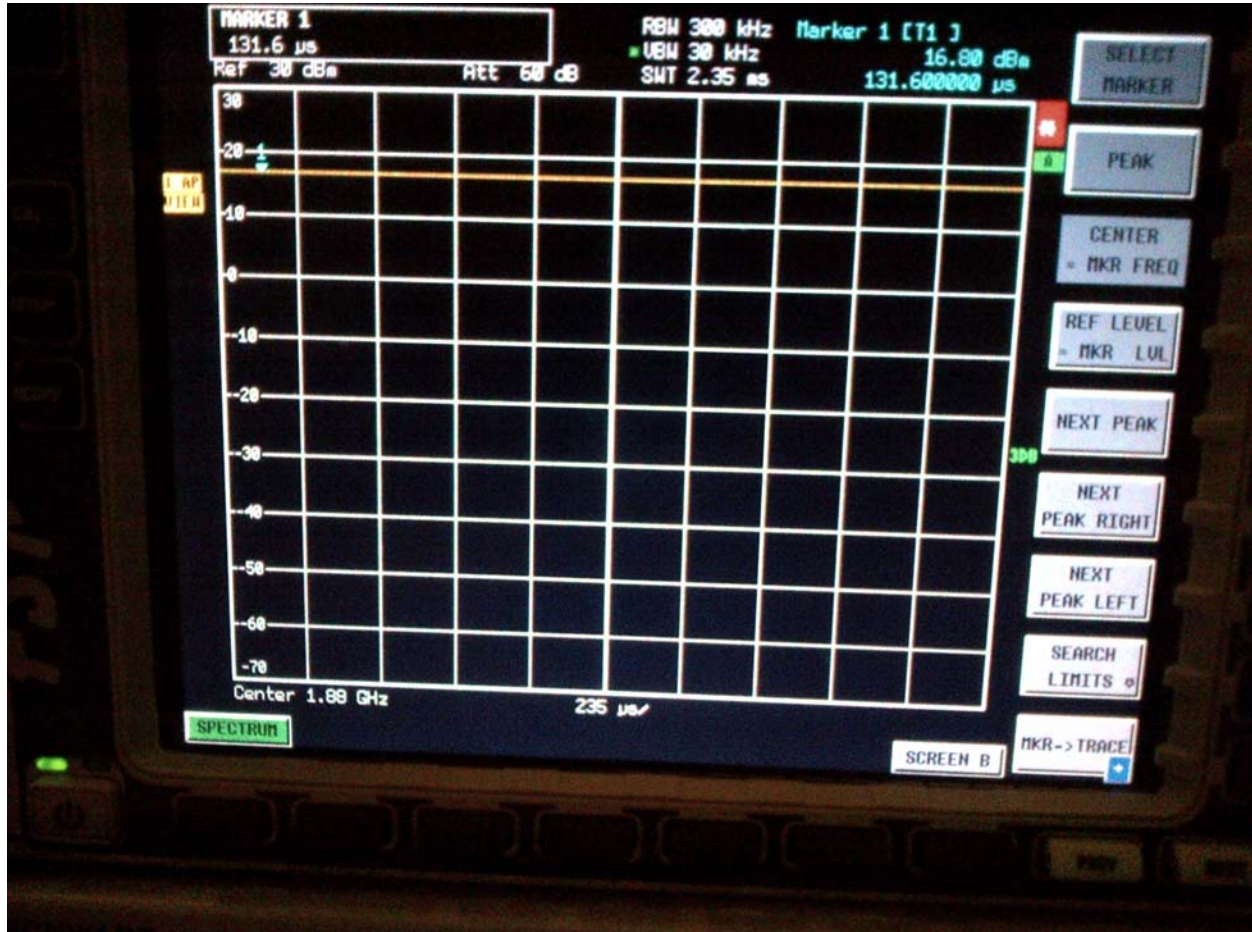
**GSM 1880 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17-22, June 28-July 11, 2012**

Report No  
**RTS-5992-1207-35**

FCC ID  
**L6ARFE70UW**



**CW 1880 MHz**

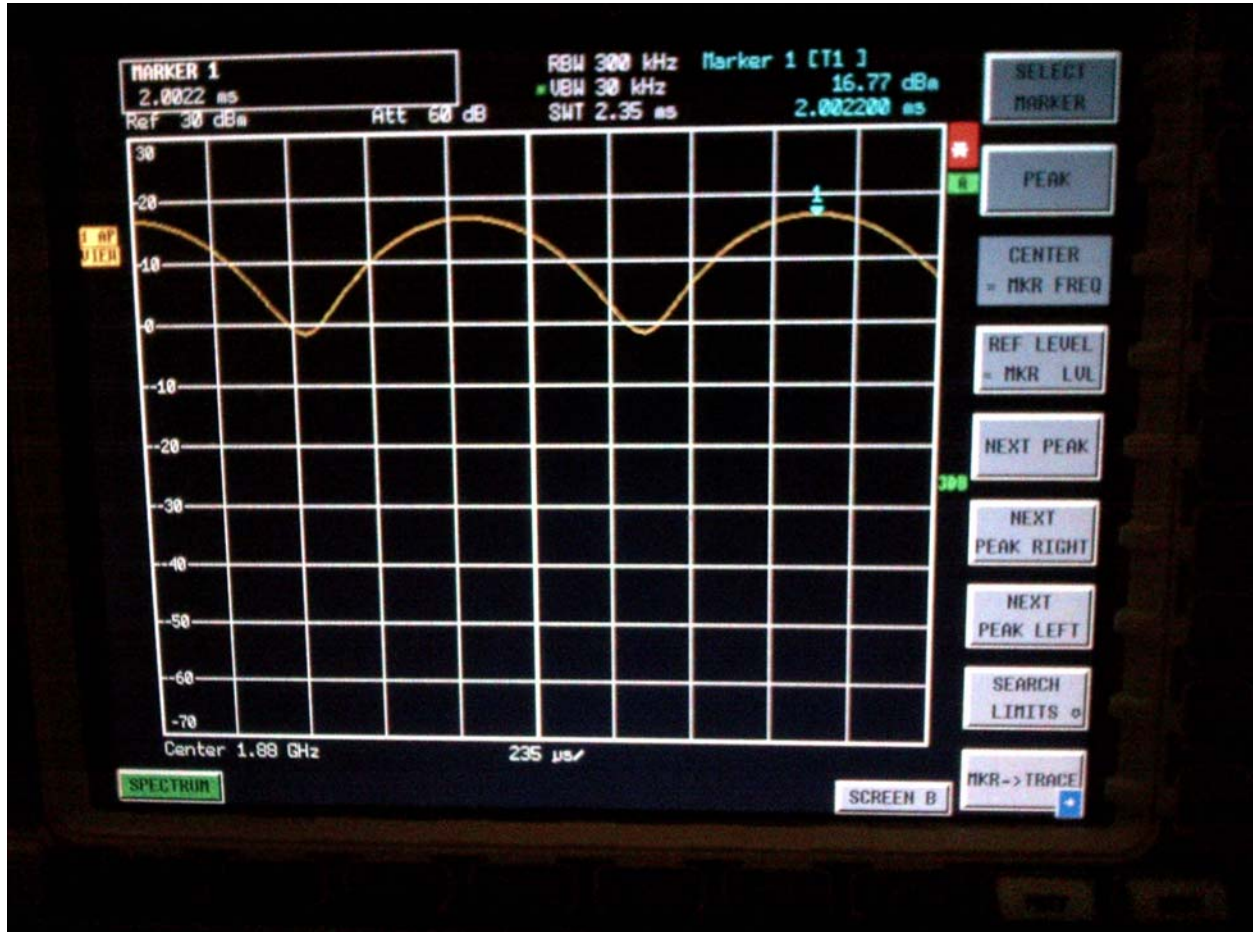


Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17-22, June 28-July 11, 2012**

Report No  
**RTS-5992-1207-35**

FCC ID  
**L6ARFE70UW**



**AM 80 % 1880 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17-22, June 28-July 11, 2012**

Report No  
**RTS-5992-1207-35**

FCC ID  
**L6ARFE70UW**



**UMTS 1880 MHz**

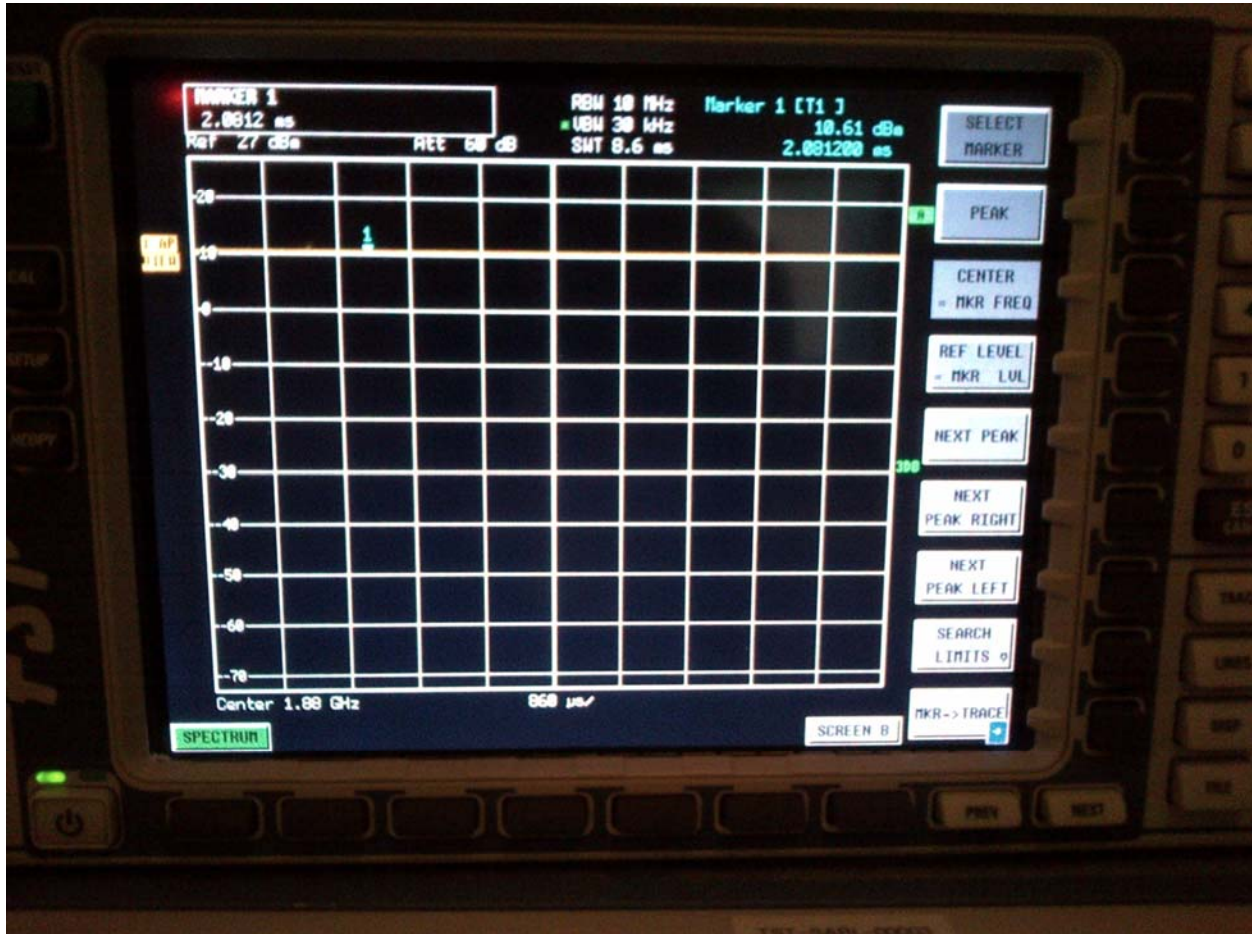


Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17-22, June 28-July 11, 2012**

Report No  
**RTS-5992-1207-35**

FCC ID  
**L6ARFE70UW**



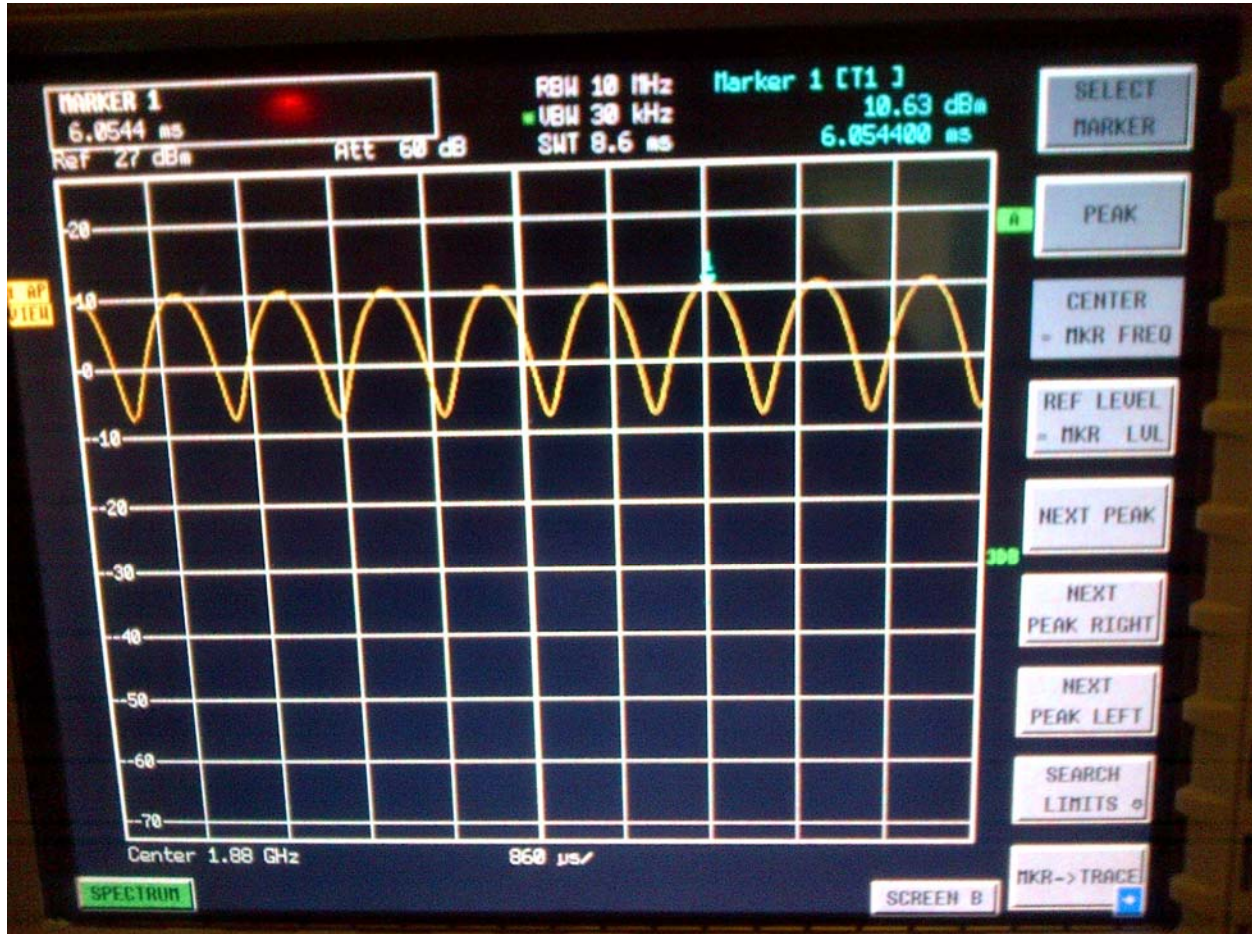
**CW 1880 MHz**

Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17-22, June 28-July 11, 2012**

Report No  
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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: 6/28/2012 1:26:32 AM

Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_validation\_835 MHz\_06\_28\_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; Serial: **Not Specified**
- 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 = 102.0 V/m; Power Drift = -0.01 dB  
PMR not calibrated. PMF = 1.000 is applied.  
E-field emissions = 160.8 V/m  
**Near-field category: M4 (AWF 0 dB)**



Author Data  
**Daoud Attayi**

Dates of Test  
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PMF scaled E-field

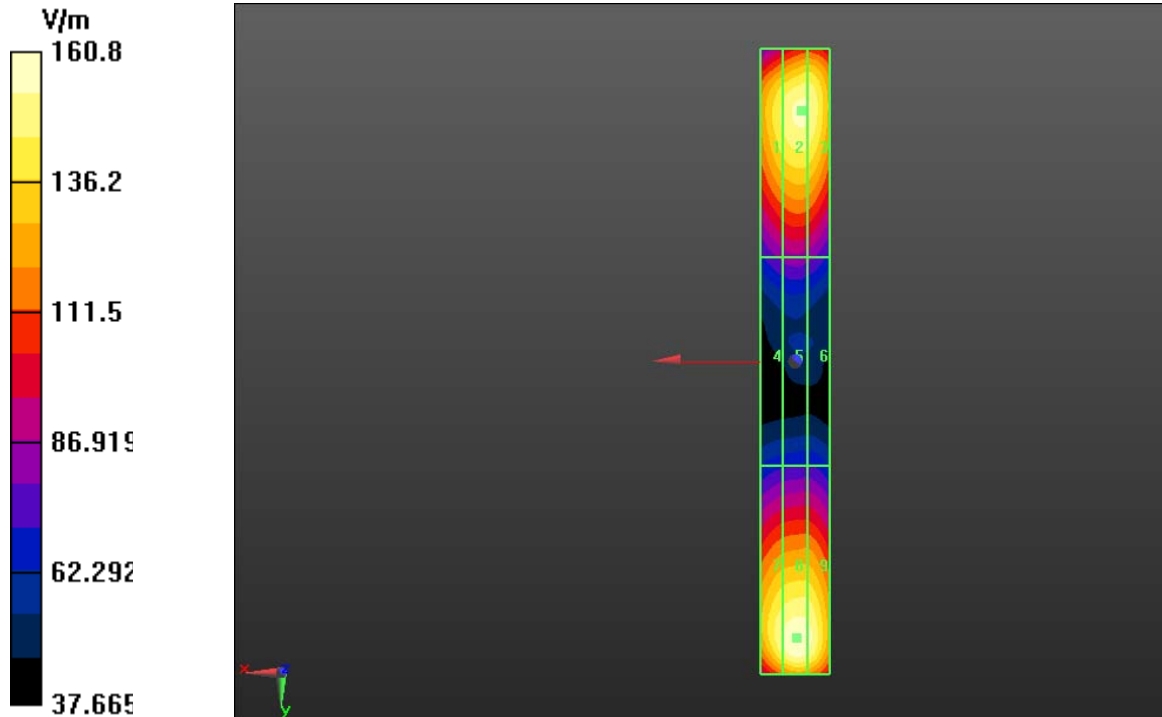
Grid 1 <b>M4</b> <b>147.1 V/m</b>	Grid 2 <b>M4</b> <b>154.8 V/m</b>	Grid 3 <b>M4</b> <b>154.0 V/m</b>
Grid 4 <b>M4</b> <b>81.97 V/m</b>	Grid 5 <b>M4</b> <b>84.87 V/m</b>	Grid 6 <b>M4</b> <b>82.87 V/m</b>
Grid 7 <b>M4</b> <b>153.8 V/m</b>	Grid 8 <b>M4</b> <b>160.8 V/m</b>	Grid 9 <b>M4</b> <b>157.7 V/m</b>


**Cursor:**

Total = 160.8 V/m

E Category: M4

Location: -0.5, 79.5, 4.7 mm



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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; Serial: **Not Specified**
- 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)**





Author Data  
**Daoud Attayi**

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**L6ARFE70UW**

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>

**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>



Author Data  
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**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> <b>52.75 V/m</b>	Grid 5 <b>M4</b> <b>54.62 V/m</b>	Grid 6 <b>M4</b> <b>53.83 V/m</b>
Grid 7 <b>M4</b> <b>99.38 V/m</b>	Grid 8 <b>M4</b> <b>102.0 V/m</b>	Grid 9 <b>M4</b> <b>97.92 V/m</b>

**Cursor:**

Total = 102.0 V/m

E Category: M4

Location: 0.5, 79.5, 4.7 mm

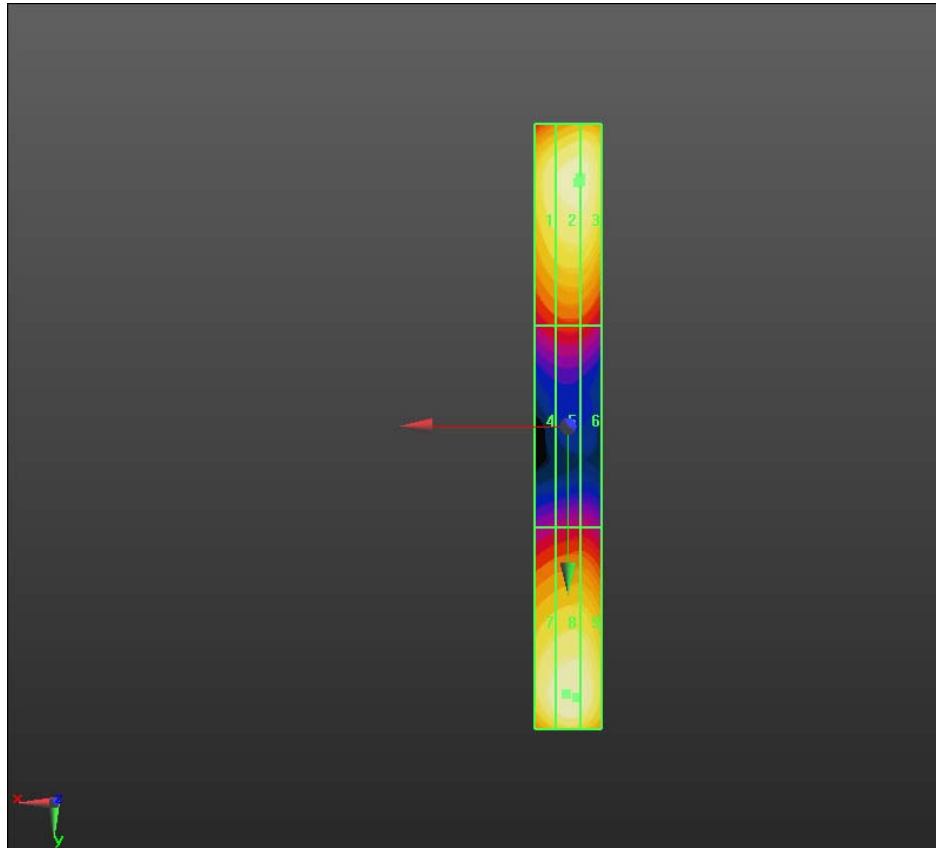
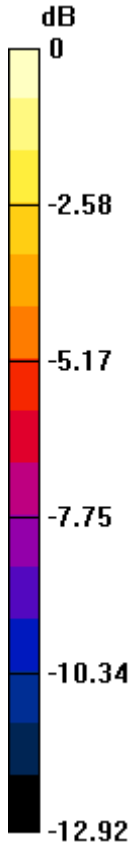


Author Data  
**Daoud Attayi**


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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; Serial: **Not Specified**
- 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)**



PMF scaled E-field

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

**Cursor:**

Total = 64.412 V/m

E Category: M4

Location: -0.5, 79, 4.7 mm

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 43.11 V/m; Power Drift = -0.14 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 68.64 V/m

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

PMF scaled E-field

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



Author Data <b>Daoud Attayi</b>	Dates of Test <b>Feb. 17-22, June 28-July 11, 2012</b>	Report No <b>RTS-5992-1207-35</b>	FCC ID <b>L6ARFE70UW</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>

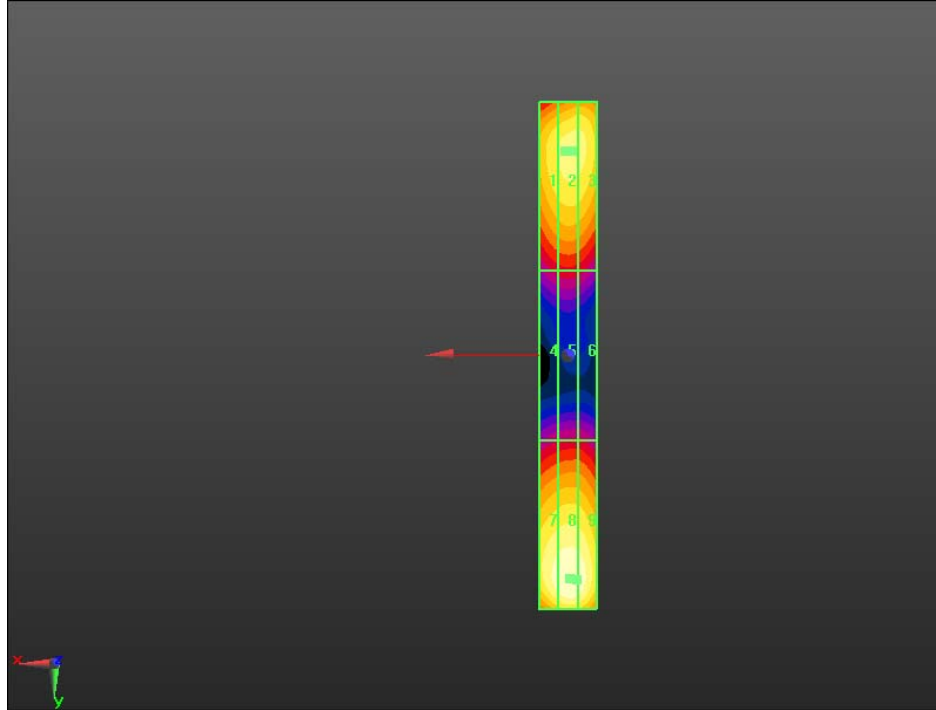
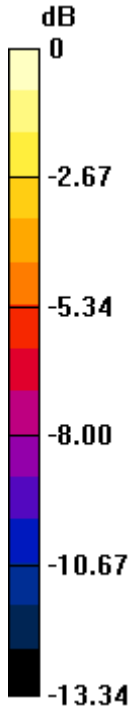
**Cursor:**  
 Total = 45.209 V/m  
 E Category: M4  
 Location: -3, 79.5, 4.7 mm

Author Data  
**Daoud Attayi**

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0 dB = 64.410V/m = 36.18 dB V/m



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; Serial: **Not Specified**
- 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>



Author Data  
**Daoud Attayi**

Dates of Test  
**Feb. 17-22, June 28-July 11, 2012**

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**RTS-5992-1207-35**

FCC ID  
**L6ARFE70UW**

**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

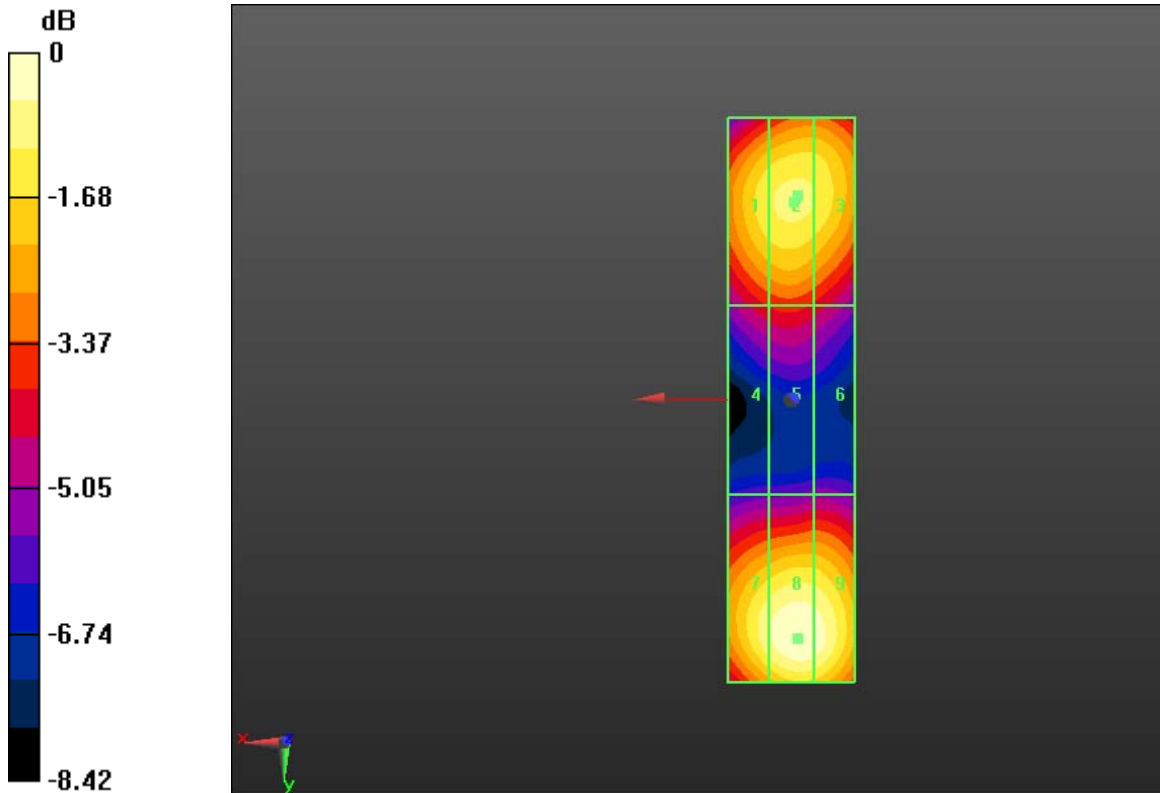
Grid 1 <b>M4</b> <b>25.68 V/m</b>	Grid 2 <b>M4</b> <b>26.42 V/m</b>	Grid 3 <b>M4</b> <b>25.96 V/m</b>
Grid 4 <b>M4</b> <b>18.91 V/m</b>	Grid 5 <b>M4</b> <b>19.39 V/m</b>	Grid 6 <b>M4</b> <b>18.52 V/m</b>
Grid 7 <b>M4</b> <b>27.45 V/m</b>	Grid 8 <b>M4</b> <b>29.45 V/m</b>	Grid 9 <b>M4</b> <b>28.94 V/m</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 1:54:39 AM

Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_validation\_1880 MHz\_06\_28\_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; Serial: **Not Specified**
- 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 CD1880 Dipole = 10mm/Hearing Aid Compatibility Test**

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 152.6 V/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 134.6 V/m

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

PMF scaled E-field

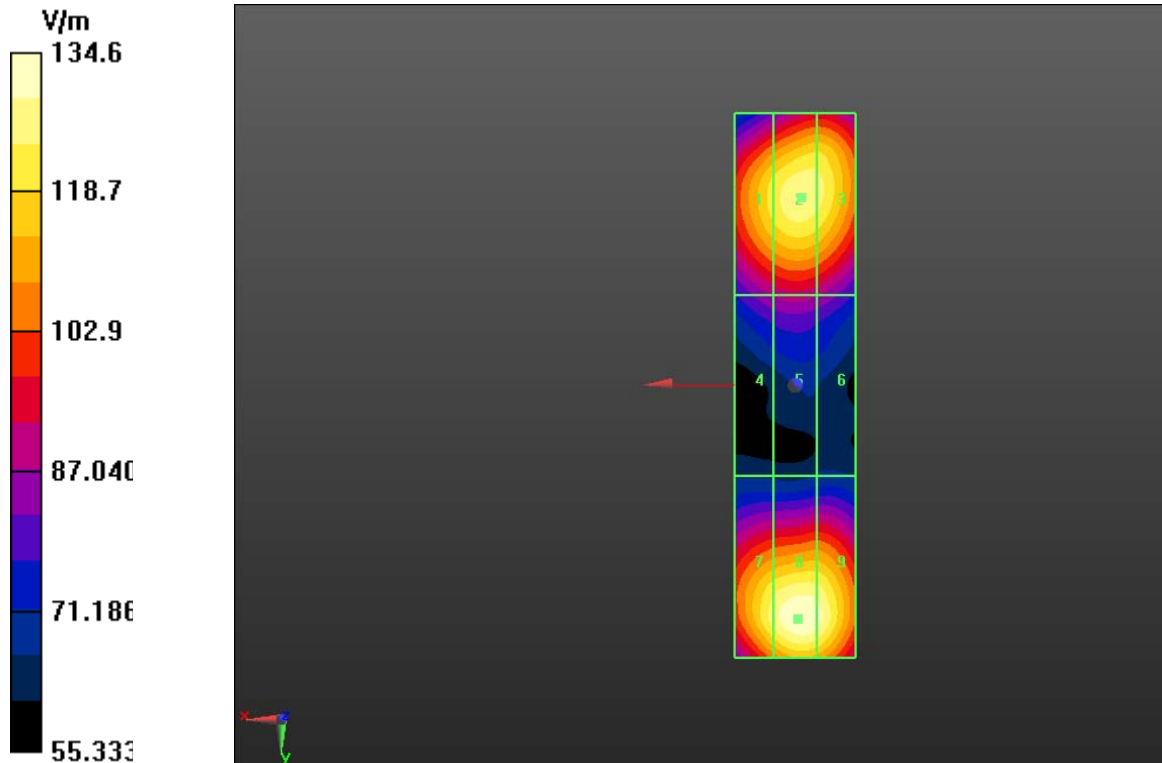
Grid 1 <b>M2</b> <b>122.0 V/m</b>	Grid 2 <b>M2</b> <b>127.9 V/m</b>	Grid 3 <b>M2</b> <b>126.5 V/m</b>
Grid 4 <b>M3</b> <b>88.18 V/m</b>	Grid 5 <b>M3</b> <b>91.05 V/m</b>	Grid 6 <b>M3</b> <b>88.28 V/m</b>
Grid 7 <b>M2</b> <b>127.2 V/m</b>	Grid 8 <b>M2</b> <b>134.6 V/m</b>	Grid 9 <b>M2</b> <b>132.1 V/m</b>


**Cursor:**

Total = 134.6 V/m

E Category: M2

Location: -0.5, 38.5, 4.7 mm



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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; Serial: **Not Specified**
- 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> <b>28.20 V/m</b>	Grid 8 <b>M4</b> <b>29.81 V/m</b>	Grid 9 <b>M4</b> <b>29.37 V/m</b>





Author Data  
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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)**

PMF scaled E-field

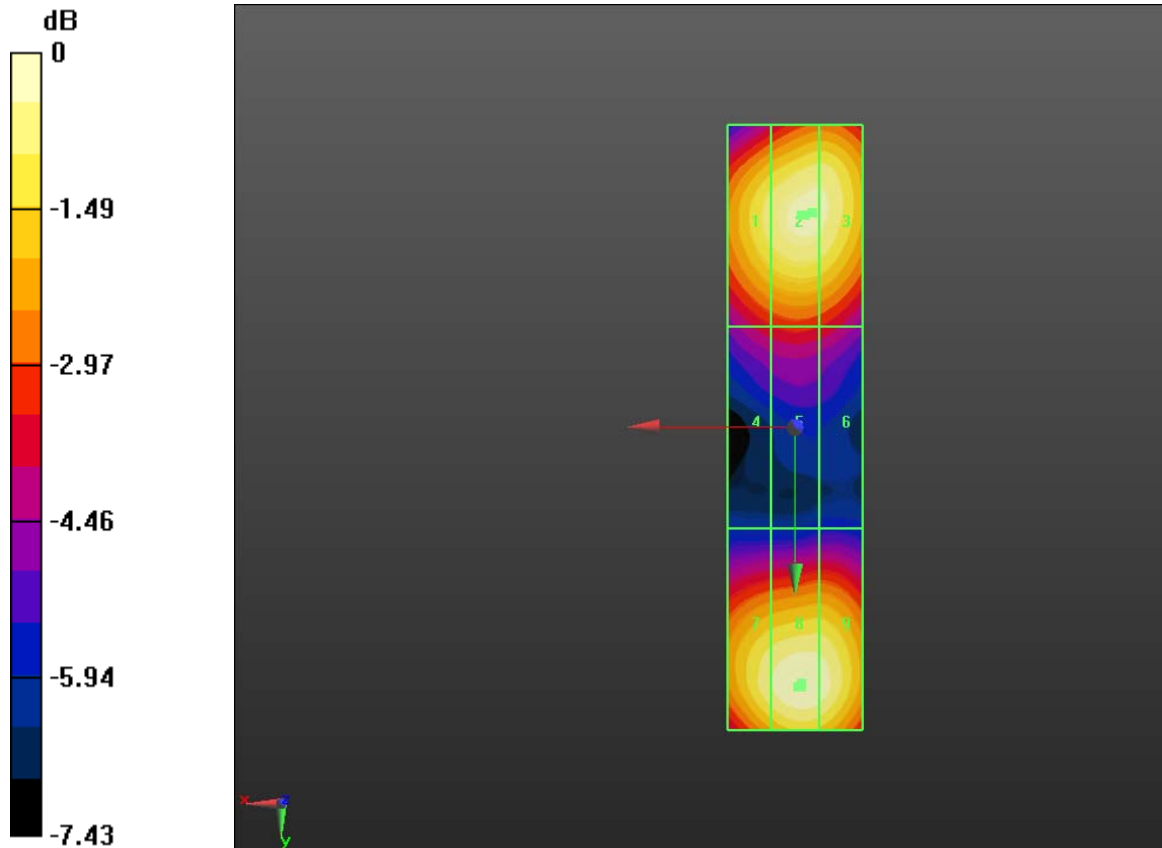
Grid 1 <b>M4</b> <b>49.75 V/m</b>	Grid 2 <b>M4</b> <b>52.55 V/m</b>	Grid 3 <b>M4</b> <b>52.06 V/m</b>
Grid 4 <b>M4</b> <b>35.78 V/m</b>	Grid 5 <b>M4</b> <b>36.92 V/m</b>	Grid 6 <b>M4</b> <b>36.02 V/m</b>
Grid 7 <b>M4</b> <b>50.66 V/m</b>	Grid 8 <b>M4</b> <b>53.60 V/m</b>	Grid 9 <b>M4</b> <b>52.63 V/m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

**Cursor:**


Total = 53.599 V/m

E Category: M4

Location: -1, 38, 4.7 mm



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

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

Test Laboratory: RIM Testing Services

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

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

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

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

Phantom section: RF Section

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

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/9/2012
- Sensor-Surface: (Fix Surface), z = 4.7
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA; Serial: **Not Specified**
- DASYS2 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)**



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>



Author Data  
**Daoud Attayi**

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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

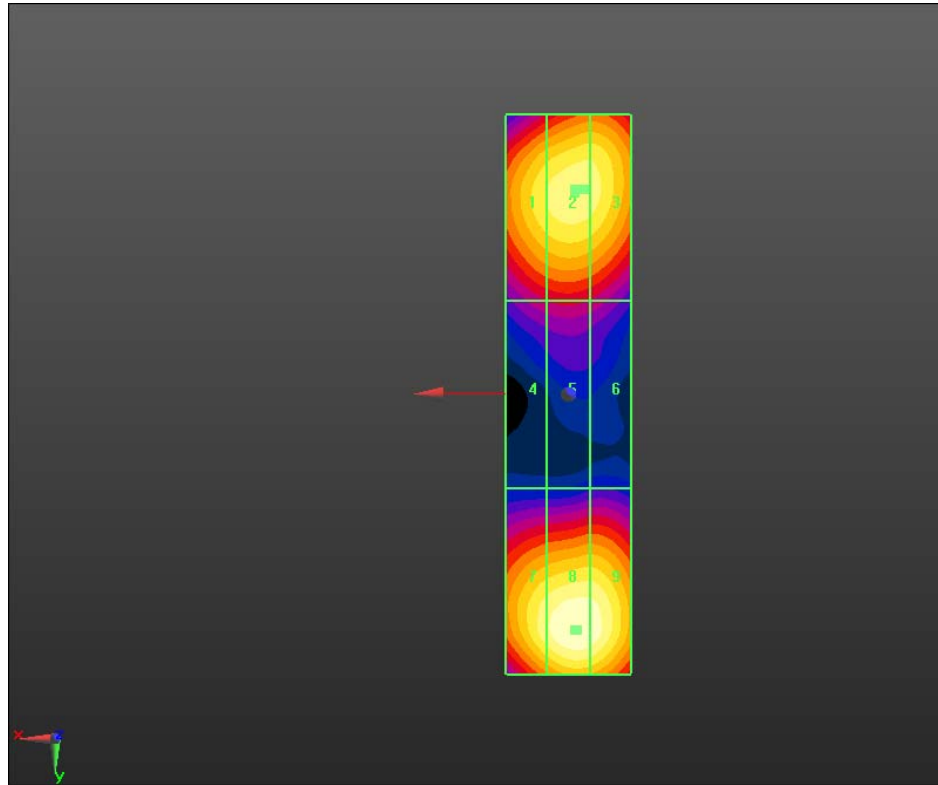
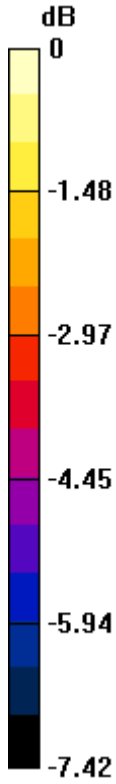
Location: -1, 38, 4.7 mm

Author Data  
**Daoud Attayi**


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

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Date/Time: 6/28/2012 2:59:51 AM

Test Laboratory: RIM Testing Services

**HAC RF\_H-Field\_validation\_835 MHz\_06\_28\_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: 11/8/2011
- 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; Serial: **Not Specified**
- DASYS2 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 = 0.50 V/m; Power Drift = 0.10 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>0.43 A/m</b>	Grid 2 <b>M4</b> <b>0.45 A/m</b>	Grid 3 <b>M4</b> <b>0.43 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>0.44 A/m</b>	Grid 8 <b>M4</b> <b>0.46 A/m</b>	Grid 9 <b>M4</b> <b>0.43 A/m</b>



Author Data  
**Daoud Attayi**

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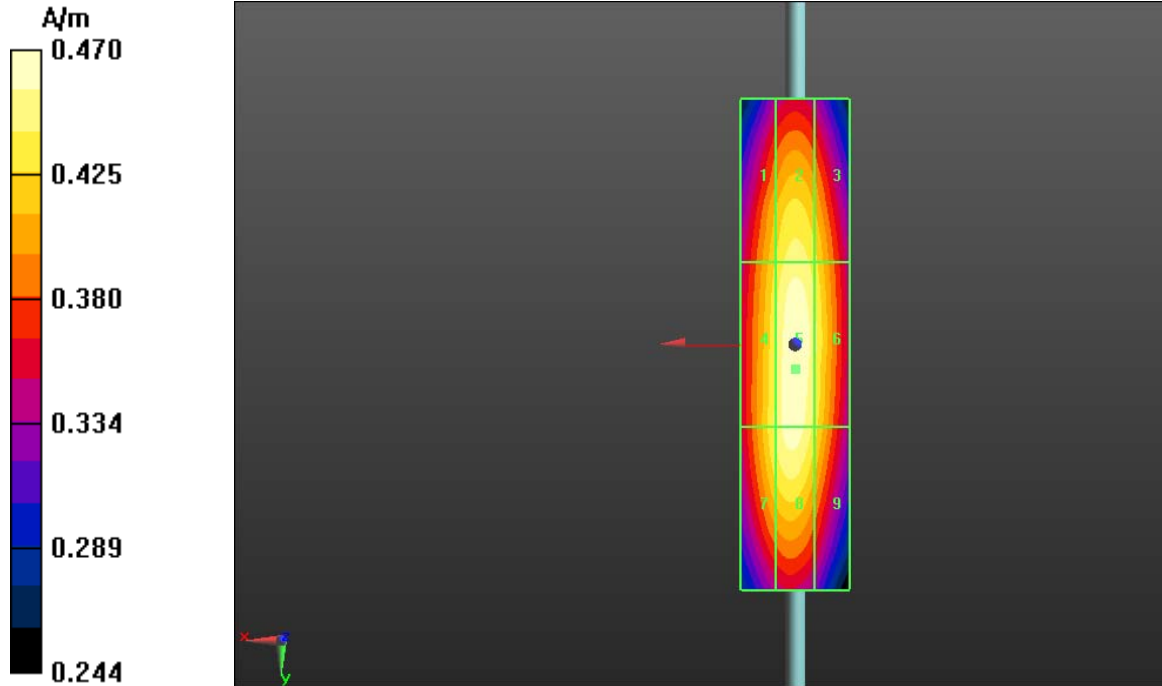
FCC ID  
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**Cursor:**

Total = 0.470 A/m

H Category: M4

Location: 0, 4.5, 4.7 mm



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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: 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; Serial: **Not Specified**
- DASYS 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> <b>0.16 A/m</b>	Grid 5 <b>M4</b> <b>0.16 A/m</b>	Grid 6 <b>M4</b> <b>0.16 A/m</b>
Grid 7 <b>M4</b> <b>0.15 A/m</b>	Grid 8 <b>M4</b> <b>0.16 A/m</b>	Grid 9 <b>M4</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>



Author Data  
**Daoud Attayi**

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**L6ARFE70UW**

**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)**

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

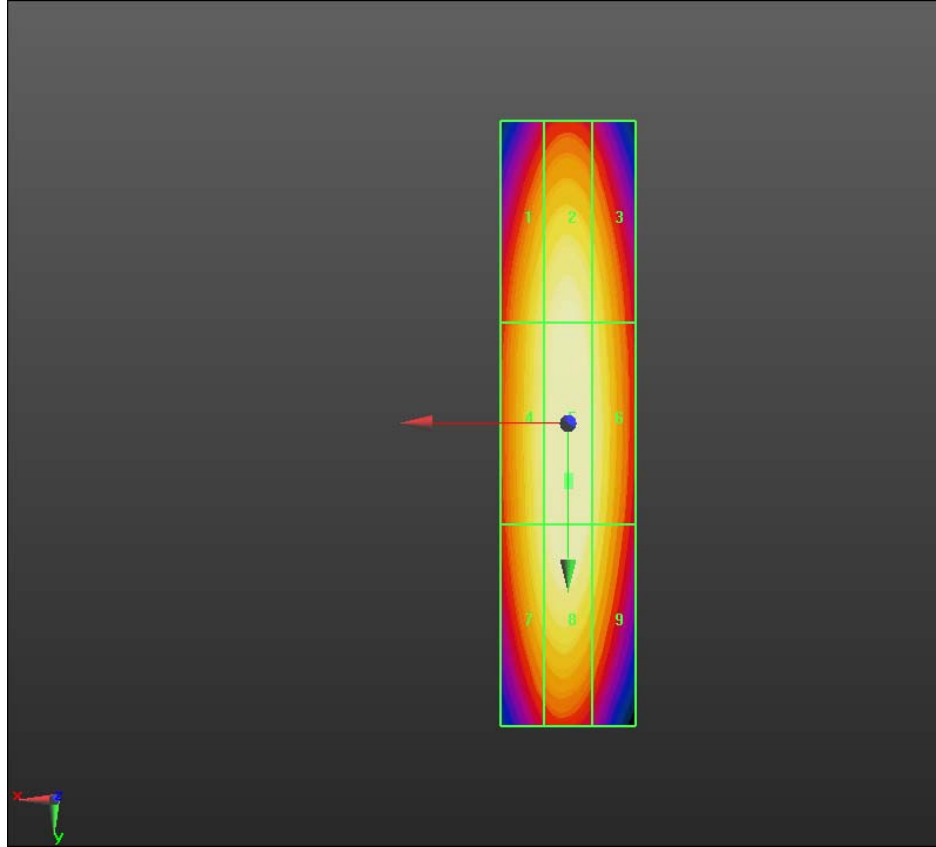


Author Data  
**Daoud Attayi**


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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; Serial: **Not Specified**
- 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)**

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

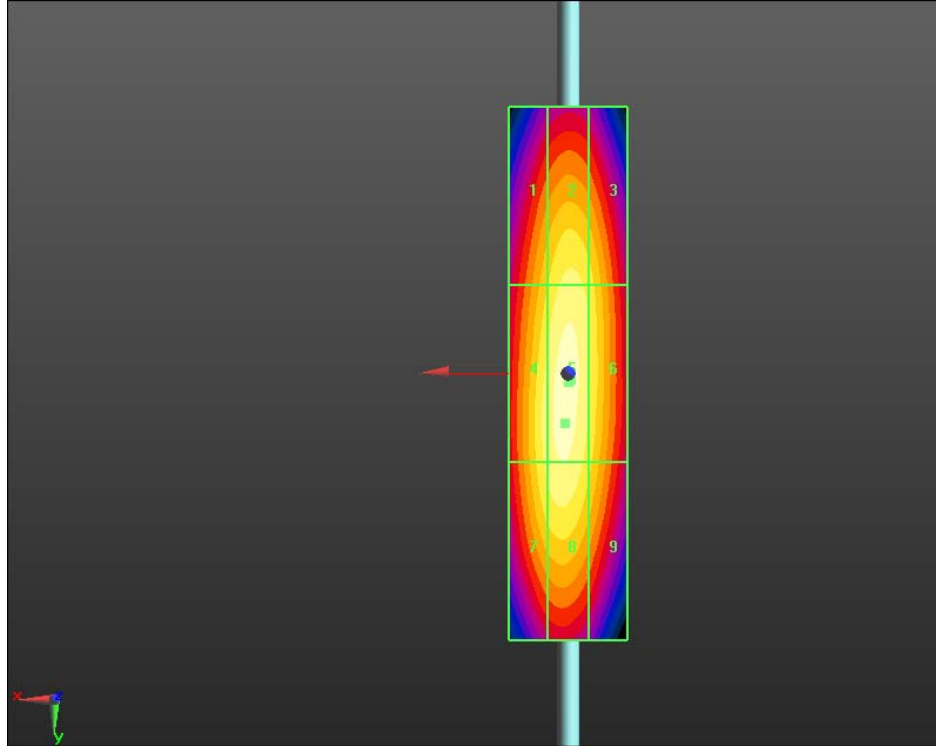
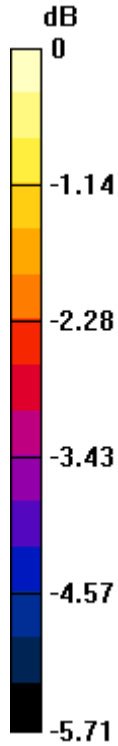


Author Data  
**Daoud Attayi**


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0 dB = 0.180A/m = -14.89 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; Serial: **Not Specified**
- DASYS 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> <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, 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>



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**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

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

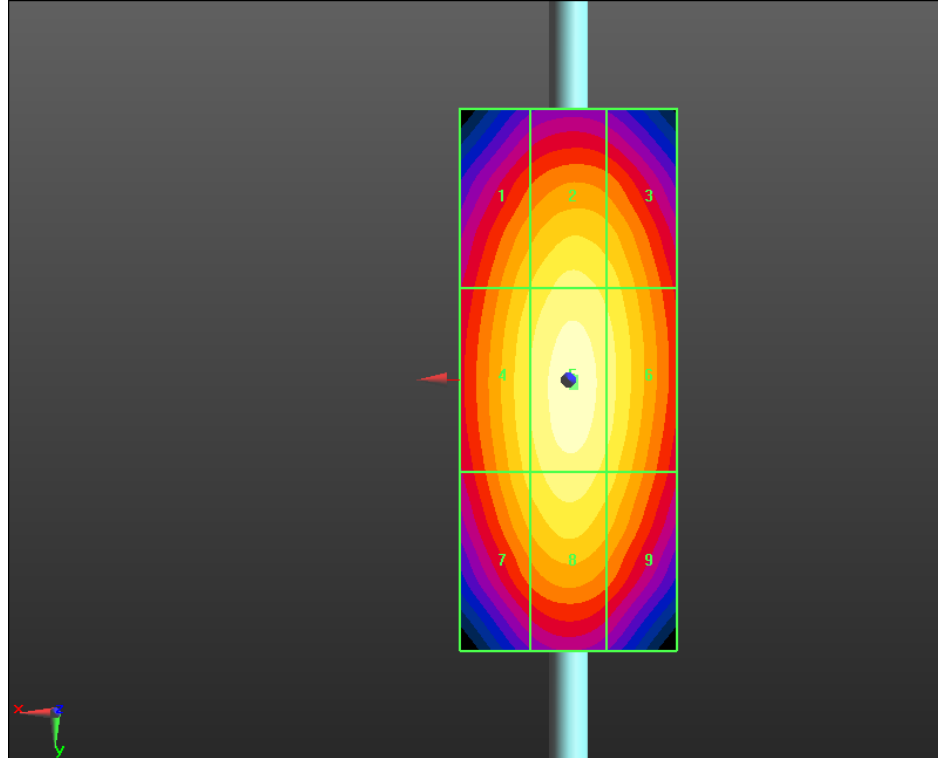
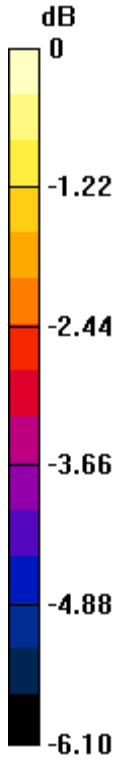


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0 dB = 0.160A/m = -15.92 dB A/m

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Date/Time: 6/28/2012 2:38:12 AM

Test Laboratory: RIM Testing Services

**HAC RF\_H-Field\_validation\_1880 MHz\_06\_28\_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: 11/8/2011
- 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; Serial: **Not Specified**
- 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 = 0.50 V/m; Power Drift = -0.03 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 H-field emissions = 0.47 A/m

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

PMF scaled H-field

Grid 1 <b>M2</b> <b>0.44 A/m</b>	Grid 2 <b>M2</b> <b>0.45 A/m</b>	Grid 3 <b>M2</b> <b>0.44 A/m</b>
Grid 4 <b>M2</b> <b>0.45 A/m</b>	Grid 5 <b>M2</b> <b>0.47 A/m</b>	Grid 6 <b>M2</b> <b>0.45 A/m</b>
Grid 7 <b>M2</b> <b>0.44 A/m</b>	Grid 8 <b>M2</b> <b>0.46 A/m</b>	Grid 9 <b>M2</b> <b>0.44 A/m</b>

Author Data  
**Daoud Attayi**

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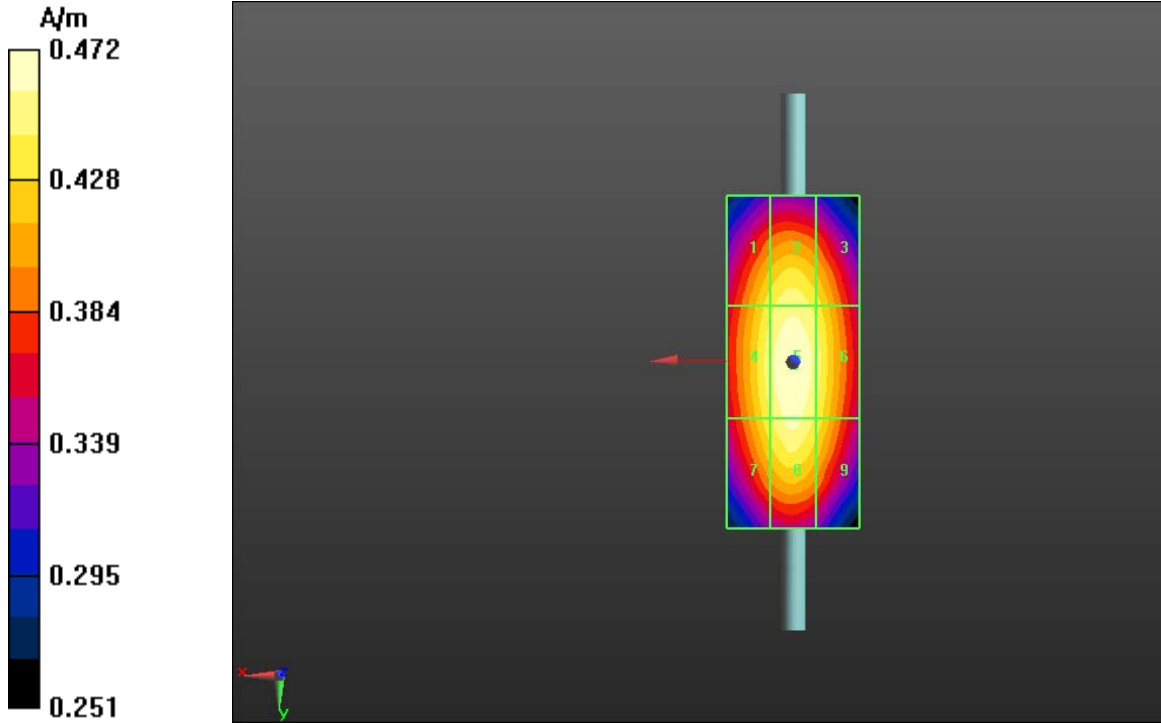
FCC ID  
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**Cursor:**

Total = 0.472 A/m

H Category: M2

Location: 0, 0.5, 4.7 mm



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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; Serial: **Not Specified**
- DASYS2 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)**

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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> <b>0.10 A/m</b>	Grid 5 <b>M4</b> <b>0.11 A/m</b>	Grid 6 <b>M4</b> <b>0.10 A/m</b>
Grid 7 <b>M4</b> <b>0.10 A/m</b>	Grid 8 <b>M4</b> <b>0.10 A/m</b>	Grid 9 <b>M4</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>





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**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)**



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PMF scaled H-field

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

**Cursor:**

Total = 0.194 A/m

H Category: M3

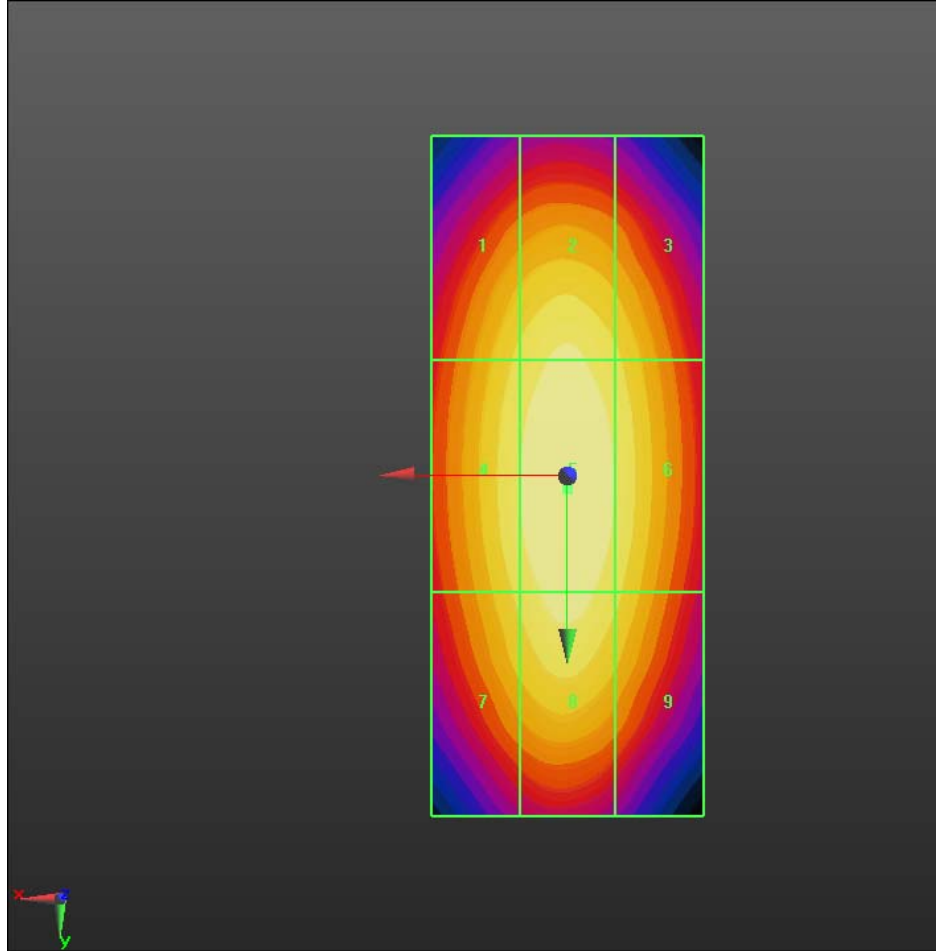
Location: 0, 0.5, 4.7 mm

Author Data  
**Daoud Attayi**


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

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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; Serial: **Not Specified**
- 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>





Author Data  
**Daoud Attayi**

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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:**

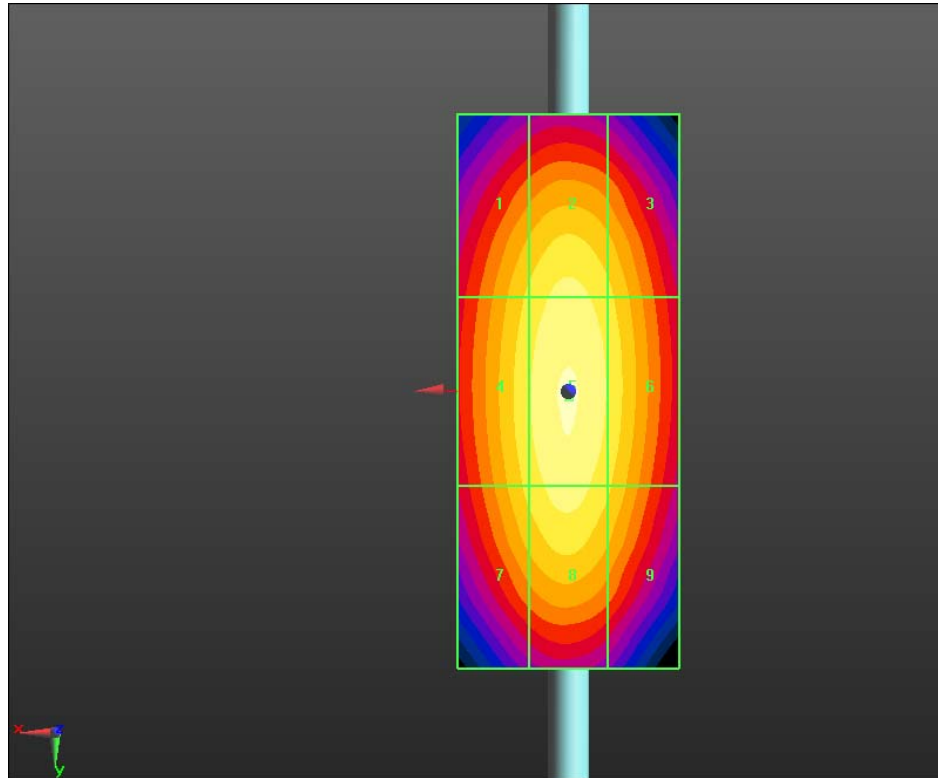
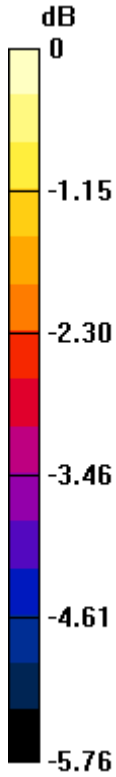
Total = 0.096 A/m  
 H Category: M4  
 Location: 0, 0, 4.7 mm

Author Data  
**Daoud Attayi**

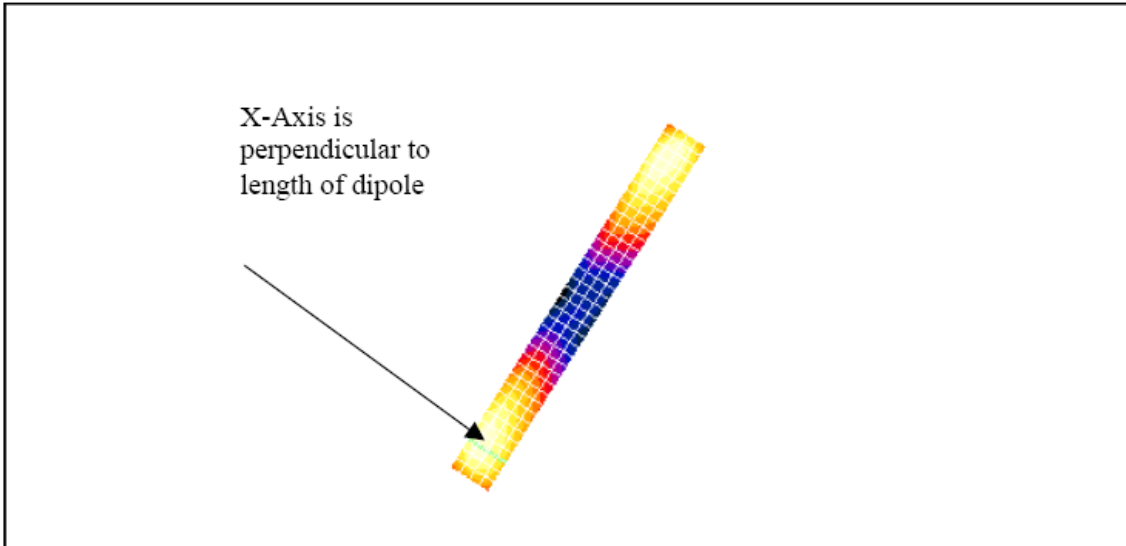
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0 dB = 0.150A/m = -16.48 dB A/m



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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**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**

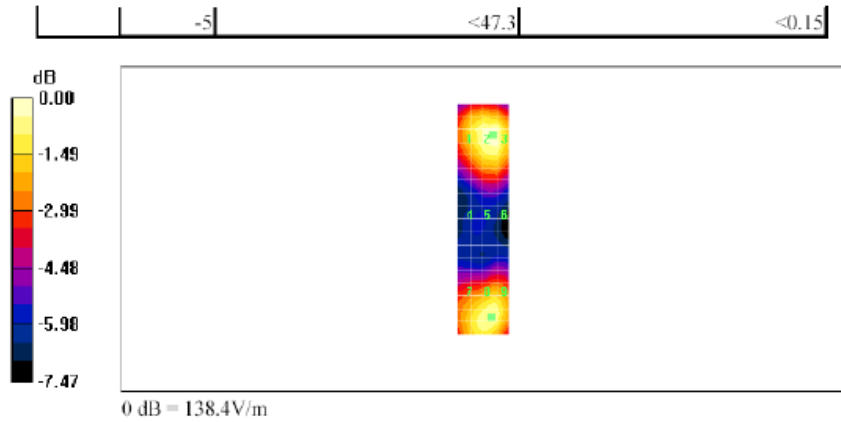
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**Lab: RIM Testing Services (RTS)**

**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
<b>123.1</b>	<b>138.6</b>	<b>138.6</b>	<b>123.1</b>	<b>138.6</b>	<b>138.6</b>
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
<b>81.4</b>	<b>92.1</b>	<b>91.6</b>	<b>81.4</b>	<b>92.1</b>	<b>91.6</b>
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
<b>121.3</b>	<b>131.2</b>	<b>131.0</b>	<b>121.3</b>	<b>131.2</b>	<b>131.0</b>

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

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Author Data  
**Daoud Attayi**

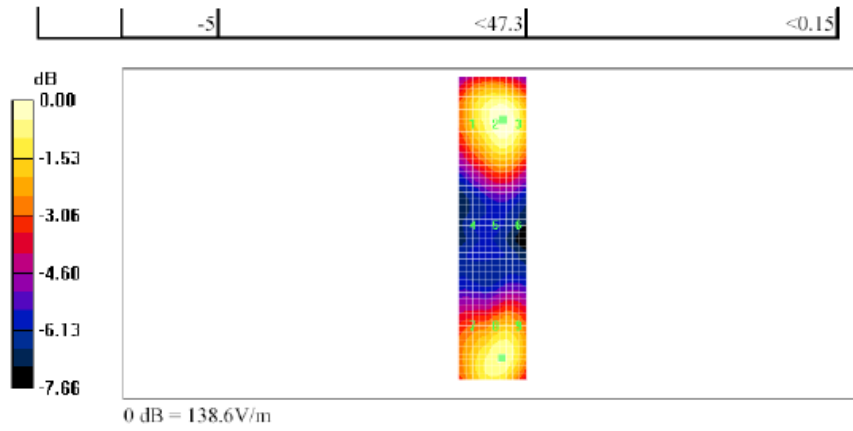
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Date/Time: 14/07/2005 12:43:02 PM

**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



Author Data  
**Daoud Attayi**

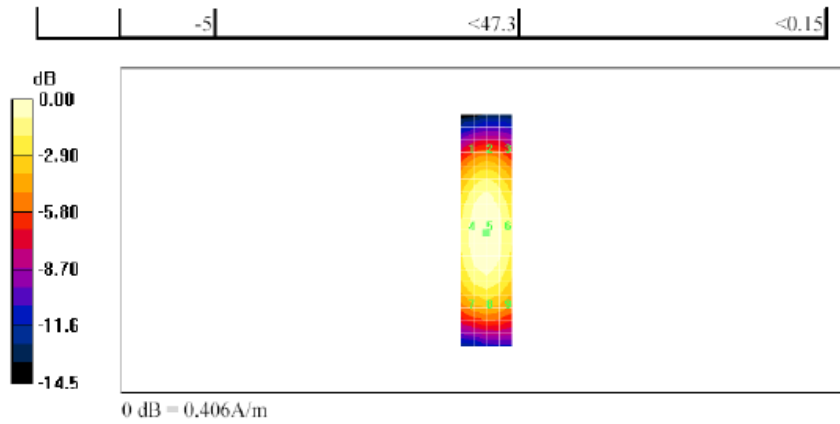
Dates of Test  
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**Lab: RIM Testing Services (RTS)**

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

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

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1  
 Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Phantom section: H Dipole Section

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

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

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

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

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

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

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

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

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

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Author Data  
**Daoud Attayi**

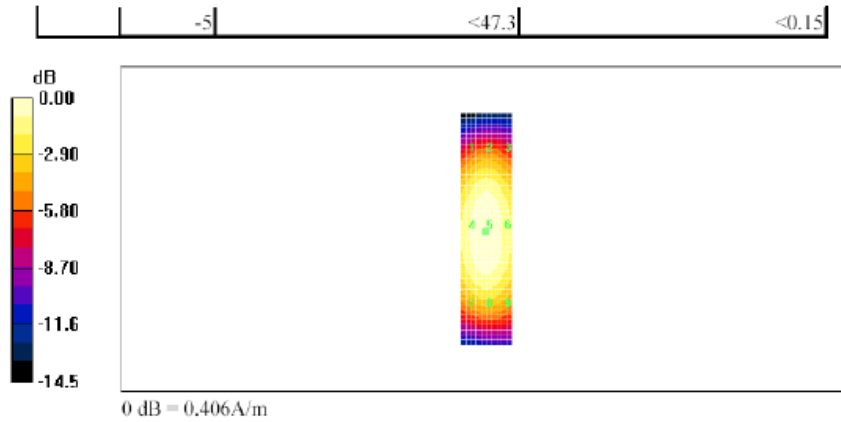
Dates of Test  
**Feb. 17-22, June 28-July 11, 2012**

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**L6ARFE70UW**

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**Daoud Attayi**

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**A.3 RF emission field plots**

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Date/Time: 6/28/2012 6:05:07 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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 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 = 78.00 V/m; Power Drift = 0.03 dB

PMR not calibrated. PMF = 3.000 is applied.

E-field emissions = 191.6 V/m

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



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PMF scaled E-field

Grid 1 <b>M3</b> <b>158.0 V/m</b>	Grid 2 <b>M3</b> <b>179.9 V/m</b>	Grid 3 <b>M3</b> <b>178.9 V/m</b>
Grid 4 <b>M3</b> <b>168.6 V/m</b>	Grid 5 <b>M3</b> <b>191.6 V/m</b>	Grid 6 <b>M3</b> <b>188.8 V/m</b>
Grid 7 <b>M3</b> <b>174.8 V/m</b>	Grid 8 <b>M3</b> <b>190.8 V/m</b>	Grid 9 <b>M3</b> <b>188.5 V/m</b>

**Cursor:**

Total = 191.6 V/m  
 E Category: M3  
 Location: -5, 6, 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 = 88.75 V/m; Power Drift = 0.07 dB  
 PMR not calibrated. PMF = 3.000 is applied.  
 E-field emissions = 222.4 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>179.3 V/m</b>	Grid 2 <b>M3</b> <b>210.7 V/m</b>	Grid 3 <b>M3</b> <b>209.8 V/m</b>
Grid 4 <b>M3</b> <b>189.2 V/m</b>	Grid 5 <b>M3</b> <b>222.4 V/m</b>	Grid 6 <b>M3</b> <b>221.7 V/m</b>
Grid 7 <b>M3</b> <b>195.2 V/m</b>	Grid 8 <b>M3</b> <b>221.9 V/m</b>	Grid 9 <b>M3</b> <b>220.6 V/m</b>

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**Cursor:**

Total = 222.4 V/m  
E Category: M3  
Location: -6.5, 6.5, 8.7 mm

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

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 99.92 V/m; Power Drift = 0.02 dB  
PMR not calibrated. PMF = 3.000 is applied.  
E-field emissions = 243.9 V/m

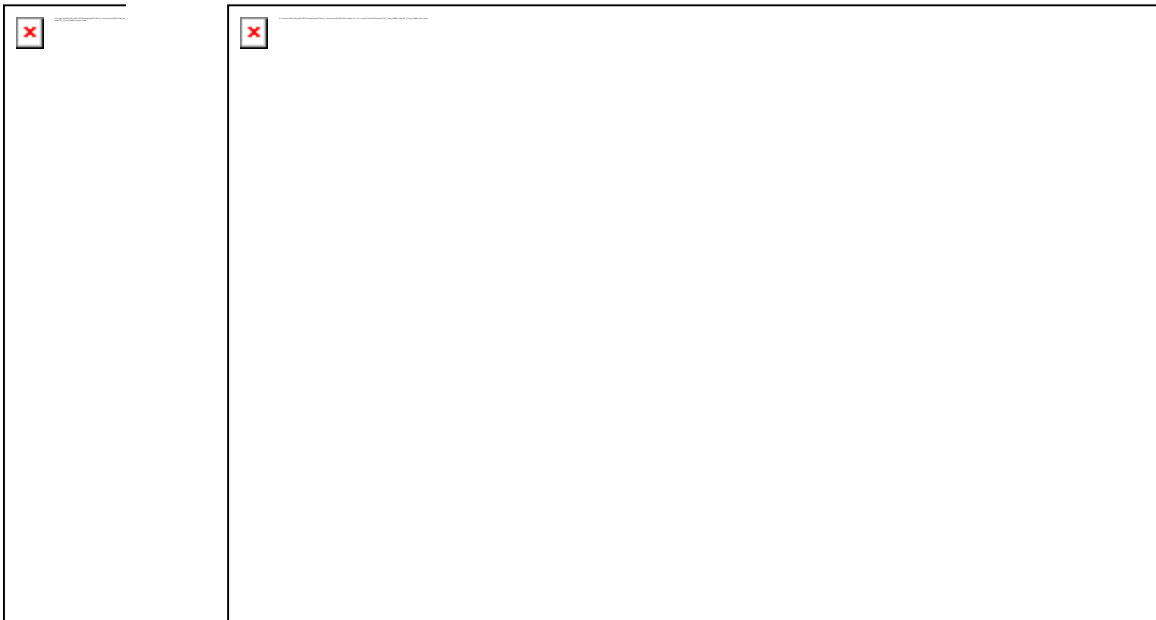
**Near-field category: M3 (AWF -5 dB)**

PMF scaled E-field


Grid 1 <b>M3</b> <b>198.1 V/m</b>	Grid 2 <b>M3</b> <b>236.6 V/m</b>	Grid 3 <b>M3</b> <b>236.6 V/m</b>
Grid 4 <b>M3</b> <b>206.9 V/m</b>	Grid 5 <b>M3</b> <b>243.9 V/m</b>	Grid 6 <b>M3</b> <b>243.8 V/m</b>
Grid 7 <b>M3</b> <b>210.3 V/m</b>	Grid 8 <b>M3</b> <b>242.6 V/m</b>	Grid 9 <b>M3</b> <b>242.0 V/m</b>

**Cursor:**

Total = 243.9 V/m  
 E Category: M3  
 Location: -8, 4.5, 8.7 mm



0 dB = 184.0V/m = 45.30 dB V/m

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Date/Time: 6/29/2012 6:46:57 AM

Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_GSM850\_Tcoil**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: GSM 850; 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 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 = 99.29 V/m; Power Drift = 0.10 dB  
PMR not calibrated. PMF = 3.000 is applied.  
E-field emissions = 249.6 V/m

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



PMF scaled E-field

Grid 1 <b>M3</b> <b>213.8 V/m</b>	Grid 2 <b>M3</b> <b>235.9 V/m</b>	Grid 3 <b>M3</b> <b>220.3 V/m</b>
Grid 4 <b>M3</b> <b>225.2 V/m</b>	Grid 5 <b>M3</b> <b>249.6 V/m</b>	Grid 6 <b>M3</b> <b>233.1 V/m</b>
Grid 7 <b>M3</b> <b>225.7 V/m</b>	Grid 8 <b>M3</b> <b>249.6 V/m</b>	Grid 9 <b>M3</b> <b>233.1 V/m</b>

**Cursor:**


Total = 249.6 V/m

E Category: M3

Location: -7.5, 4, 8.7 mm



0 dB = 239.7V/m = 47.59 dB V/m

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Date/Time: 6/28/2012 7:08:04 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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 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 = 86.20 V/m; Power Drift = 0.05 dB

PMR not calibrated. PMF = 1.070 is applied.

E-field emissions = 75.65 V/m

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



PMF scaled E-field

Grid 1 <b>M4</b> <b>62.21 V/m</b>	Grid 2 <b>M4</b> <b>71.40 V/m</b>	Grid 3 <b>M4</b> <b>71.16 V/m</b>
Grid 4 <b>M4</b> <b>66.05 V/m</b>	Grid 5 <b>M4</b> <b>75.65 V/m</b>	Grid 6 <b>M4</b> <b>75.24 V/m</b>
Grid 7 <b>M4</b> <b>68.73 V/m</b>	Grid 8 <b>M4</b> <b>75.42 V/m</b>	Grid 9 <b>M4</b> <b>74.88 V/m</b>

**Cursor:**

Total = 75.648 V/m  
 E Category: M4  
 Location: -5.5, 6, 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 = 96.10 V/m; Power Drift = 0.09 dB  
 PMR not calibrated. PMF = 1.070 is applied.  
 E-field emissions = 86.01 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>68.17 V/m</b>	Grid 2 <b>M4</b> <b>81.14 V/m</b>	Grid 3 <b>M4</b> <b>81.08 V/m</b>
Grid 4 <b>M4</b> <b>72.19 V/m</b>	Grid 5 <b>M4</b> <b>86.01 V/m</b>	Grid 6 <b>M4</b> <b>85.78 V/m</b>
Grid 7 <b>M4</b> <b>75.62 V/m</b>	Grid 8 <b>M4</b> <b>85.76 V/m</b>	Grid 9 <b>M4</b> <b>85.45 V/m</b>

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**Cursor:**

Total = 86.014 V/m  
E Category: M4  
Location: -6.5, 6, 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 = 108.7 V/m; Power Drift = 0.01 dB  
PMR not calibrated. PMF = 1.07 is applied.  
E-field emissions = 95.17 V/m

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



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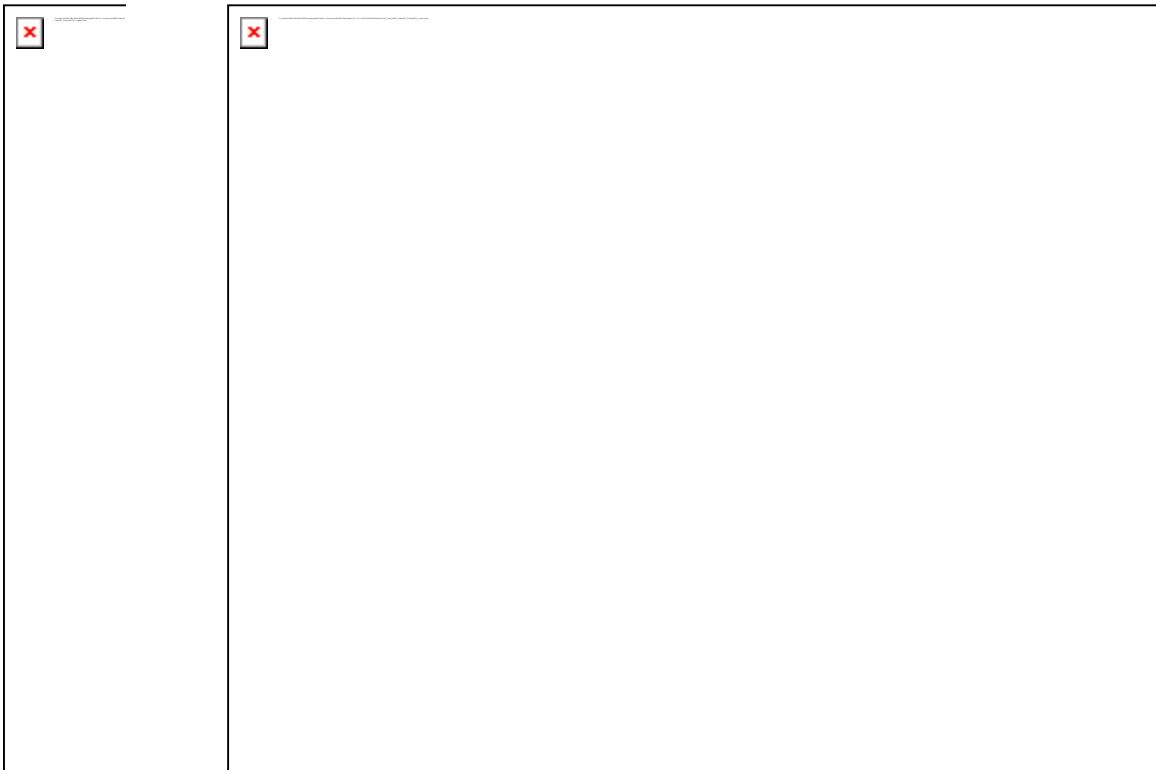
FCC ID  
**L6ARFE70UW**

PMF scaled E-field


Grid 1 <b>M4</b> <b>71.99 V/m</b>	Grid 2 <b>M4</b> <b>84.80 V/m</b>	Grid 3 <b>M4</b> <b>84.62 V/m</b>
Grid 4 <b>M4</b> <b>75.71 V/m</b>	Grid 5 <b>M4</b> <b>88.94 V/m</b>	Grid 6 <b>M4</b> <b>88.58 V/m</b>
Grid 7 <b>M4</b> <b>77.81 V/m</b>	Grid 8 <b>M4</b> <b>88.44 V/m</b>	Grid 9 <b>M4</b> <b>87.99 V/m</b>

**Cursor:**

Total = 88.937 V/m  
E Category: M4  
Location: -6, 5.5, 8.7 mm



0 dB = 70.700V/m = 36.99 dB V/m

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Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_UMTS\_V\_Tcoil**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD V; 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 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 = 110.0 V/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 1.070 is applied.

E-field emissions = 95.74 V/m

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





Author Data  
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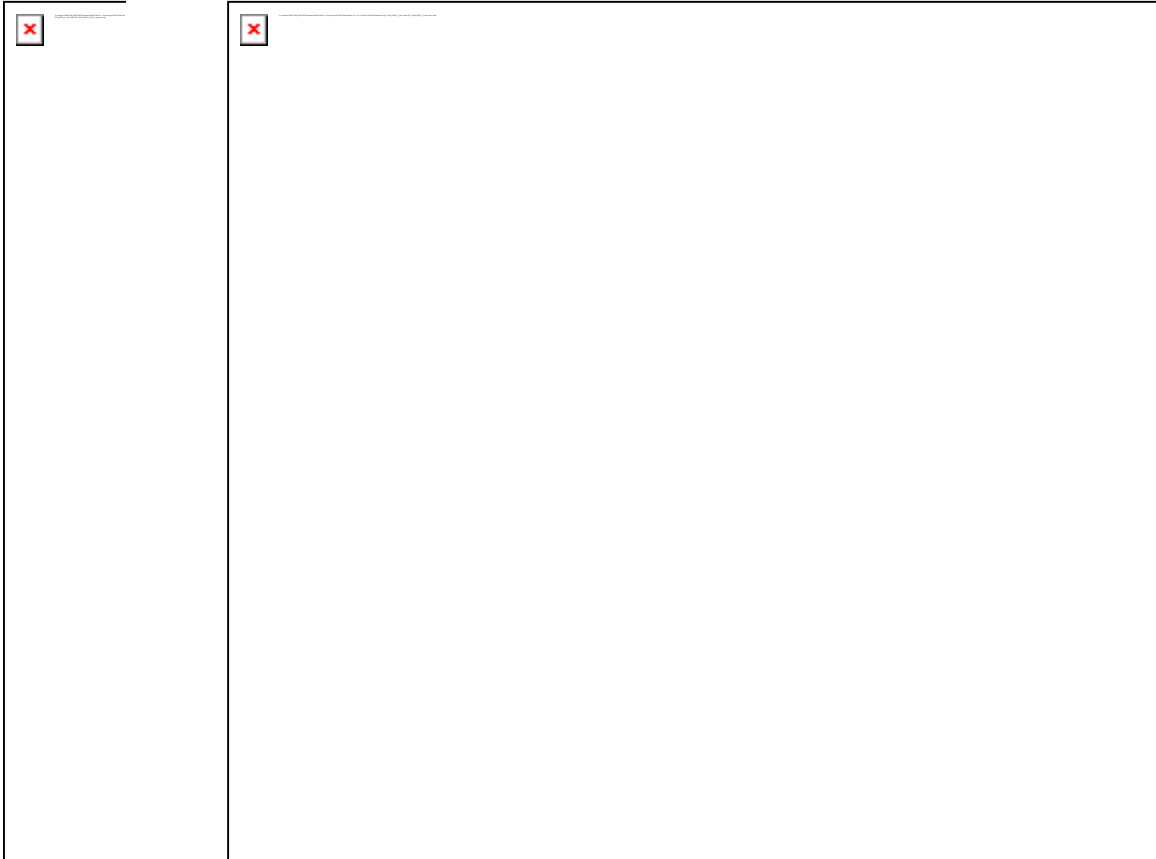
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FCC ID  
**L6ARFE70UW**


PMF scaled E-field

Grid 1 <b>M4</b> <b>83.44 V/m</b>	Grid 2 <b>M4</b> <b>89.07 V/m</b>	Grid 3 <b>M4</b> <b>83.07 V/m</b>
Grid 4 <b>M4</b> <b>88.55 V/m</b>	Grid 5 <b>M4</b> <b>95.74 V/m</b>	Grid 6 <b>M4</b> <b>89.65 V/m</b>
Grid 7 <b>M4</b> <b>89.46 V/m</b>	Grid 8 <b>M4</b> <b>95.77 V/m</b>	Grid 9 <b>M4</b> <b>89.66 V/m</b>

**Cursor:**  
Total = 95.771 V/m  
E Category: M4  
Location: -6, 6, 8.7 mm



0 dB = 95.770V/m = 39.62 dB V/m

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Date/Time: 7/11/2012 2:16:25 PM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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; 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 Device\_Low\_Chan/Hearing Aid Compatibility Test**

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 19.88 V/m; Power Drift = -0.20 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 78.73 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>72.44 V/m</b>	Grid 2 <b>M3</b> <b>74.27 V/m</b>	Grid 3 <b>M3</b> <b>70.75 V/m</b>
Grid 4 <b>M4</b> <b>42.68 V/m</b>	Grid 5 <b>M3</b> <b>67.28 V/m</b>	Grid 6 <b>M3</b> <b>68.33 V/m</b>
Grid 7 <b>M3</b> <b>54.67 V/m</b>	Grid 8 <b>M3</b> <b>79.07 V/m</b>	Grid 9 <b>M3</b> <b>78.73 V/m</b>

**Cursor:**

Total = 79.073 V/m

E Category: M3

Location: -7, 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 = 24.00 V/m; Power Drift = 0.05 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 76.42 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>69.49 V/m</b>	Grid 2 <b>M3</b> <b>75.97 V/m</b>	Grid 3 <b>M3</b> <b>75.13 V/m</b>
Grid 4 <b>M4</b> <b>44.20 V/m</b>	Grid 5 <b>M3</b> <b>74.51 V/m</b>	Grid 6 <b>M3</b> <b>75.77 V/m</b>
Grid 7 <b>M4</b> <b>45.75 V/m</b>	Grid 8 <b>M3</b> <b>75.78 V/m</b>	Grid 9 <b>M3</b> <b>76.42 V/m</b>



Author Data  
**Daoud Attayi**

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**L6ARFE70UW**

**Cursor:**

Total = 76.421 V/m  
 E Category: M3  
 Location: -11, 14, 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 = 23.89 V/m; Power Drift = -0.05 dB  
 PMR not calibrated. PMF = 2.850 is applied.  
 E-field emissions = 76.95 V/m

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

PMF scaled E-field

Grid 1 <b>M3</b> <b>70.09 V/m</b>	Grid 2 <b>M3</b> <b>71.04 V/m</b>	Grid 3 <b>M3</b> <b>71.02 V/m</b>
Grid 4 <b>M4</b> <b>44.80 V/m</b>	Grid 5 <b>M3</b> <b>74.67 V/m</b>	Grid 6 <b>M3</b> <b>76.14 V/m</b>
Grid 7 <b>M4</b> <b>44.39 V/m</b>	Grid 8 <b>M3</b> <b>76.85 V/m</b>	Grid 9 <b>M3</b> <b>76.95 V/m</b>

**Cursor:**

Total = 76.954 V/m  
 E Category: M3  
 Location: -10, 17.5, 8.7 mm



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0 dB = 79.930V/m = 38.05 dB V/m

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Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_GSM1900\_Tcoil**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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; 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 Device\_Low\_Chan\_Telecoil/Hearing Aid Compatibility Test**

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 19.91 V/m; Power Drift = -0.09 dB

PMR not calibrated. PMF = 2.850 is applied.

E-field emissions = 76.95 V/m

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

PMF scaled E-field

<b>Grid 1 M3</b> <b>79.01 V/m</b>	<b>Grid 2 M3</b> <b>79.04 V/m</b>	<b>Grid 3 M3</b> <b>66.87 V/m</b>
<b>Grid 4 M3</b> <b>54.86 V/m</b>	<b>Grid 5 M3</b> <b>63.77 V/m</b>	<b>Grid 6 M3</b> <b>63.53 V/m</b>
<b>Grid 7 M3</b> <b>60.52 V/m</b>	<b>Grid 8 M3</b> <b>76.95 V/m</b>	<b>Grid 9 M3</b> <b>74.55 V/m</b>

**Cursor:**

Total = 79.045 V/m  
 E Category: M3  
 Location: 2.5, -30, 8.7 mm

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

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 23.87 V/m; Power Drift = -0.09 dB  
 PMR not calibrated. PMF = 2.850 is applied.  
 E-field emissions = 76.50 V/m

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

PMF scaled E-field

<b>Grid 1 M3</b> <b>78.62 V/m</b>	<b>Grid 2 M3</b> <b>79.20 V/m</b>	<b>Grid 3 M3</b> <b>72.24 V/m</b>
<b>Grid 4 M3</b> <b>57.10 V/m</b>	<b>Grid 5 M3</b> <b>73.04 V/m</b>	<b>Grid 6 M3</b> <b>72.92 V/m</b>
<b>Grid 7 M3</b> <b>58.83 V/m</b>	<b>Grid 8 M3</b> <b>76.50 V/m</b>	<b>Grid 9 M3</b> <b>75.87 V/m</b>





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**Cursor:**

Total = 79.202 V/m  
 E Category: M3  
 Location: 0.5, -30, 8.7 mm

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

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 23.30 V/m; Power Drift = 0.06 dB  
 PMR not calibrated. PMF = 2.850 is applied.  
 E-field emissions = 77.17 V/m

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

PMF scaled E-field

<b>Grid 1 M3 73.01 V/m</b>	<b>Grid 2 M3 74.16 V/m</b>	<b>Grid 3 M3 69.63 V/m</b>
<b>Grid 4 M3 53.57 V/m</b>	<b>Grid 5 M3 73.51 V/m</b>	<b>Grid 6 M3 73.31 V/m</b>
<b>Grid 7 M3 55.66 V/m</b>	<b>Grid 8 M3 77.17 V/m</b>	<b>Grid 9 M3 76.04 V/m</b>

**Cursor:**

Total = 77.170 V/m  
 E Category: M3  
 Location: -11, 15.5, 8.7 mm

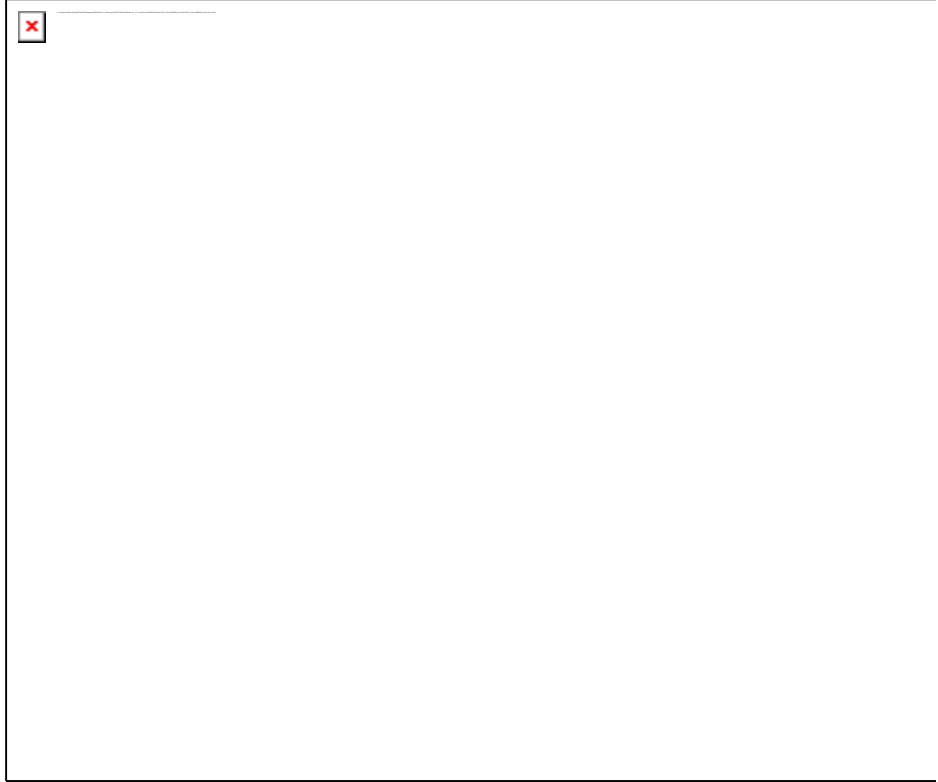


Author Data  
**Daoud Attayi**


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0 dB = 79.910V/m = 38.05 dB V/m

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Date/Time: 6/28/2012 6:45:45 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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 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 = 14.11 V/m; Power Drift = 0.05 dB

PMR not calibrated. PMF = 1.030 is applied.

E-field emissions = 37.55 V/m

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



PMF scaled E-field

Grid 1 <b>M4</b> <b>22.51 V/m</b>	Grid 2 <b>M4</b> <b>22.54 V/m</b>	Grid 3 <b>M4</b> <b>21.55 V/m</b>
Grid 4 <b>M4</b> <b>17.62 V/m</b>	Grid 5 <b>M4</b> <b>25.27 V/m</b>	Grid 6 <b>M4</b> <b>25.50 V/m</b>
Grid 7 <b>M4</b> <b>33.51 V/m</b>	Grid 8 <b>M4</b> <b>37.55 V/m</b>	Grid 9 <b>M4</b> <b>36.18 V/m</b>

**Cursor:**

Total = 37.548 V/m  
 E Category: M4  
 Location: -3, 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 = 18.35 V/m; Power Drift = -0.07 dB  
 PMR not calibrated. PMF = 1.030 is applied.  
 E-field emissions = 50.58 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>33.09 V/m</b>	Grid 2 <b>M4</b> <b>32.63 V/m</b>	Grid 3 <b>M4</b> <b>30.48 V/m</b>
Grid 4 <b>M4</b> <b>22.67 V/m</b>	Grid 5 <b>M4</b> <b>33.23 V/m</b>	Grid 6 <b>M4</b> <b>33.62 V/m</b>
Grid 7 <b>M4</b> <b>44.76 V/m</b>	Grid 8 <b>M4</b> <b>50.58 V/m</b>	Grid 9 <b>M4</b> <b>49.01 V/m</b>



Author Data  
**Daoud Attayi**

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**Cursor:**

Total = 50.580 V/m  
 E Category: M4  
 Location: -3.5, 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 = 20.28 V/m; Power Drift = -0.06 dB  
 PMR not calibrated. PMF = 1.03 is applied.  
 E-field emissions = 48.71 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>36.10 V/m</b>	Grid 2 <b>M4</b> <b>34.60 V/m</b>	Grid 3 <b>M4</b> <b>31.49 V/m</b>
Grid 4 <b>M4</b> <b>20.42 V/m</b>	Grid 5 <b>M4</b> <b>33.16 V/m</b>	Grid 6 <b>M4</b> <b>33.54 V/m</b>
Grid 7 <b>M4</b> <b>39.76 V/m</b>	Grid 8 <b>M4</b> <b>47.29 V/m</b>	Grid 9 <b>M4</b> <b>46.24 V/m</b>

**Cursor:**

Total = 47.287 V/m  
 E Category: M4  
 Location: -3, 25, 8.7 mm

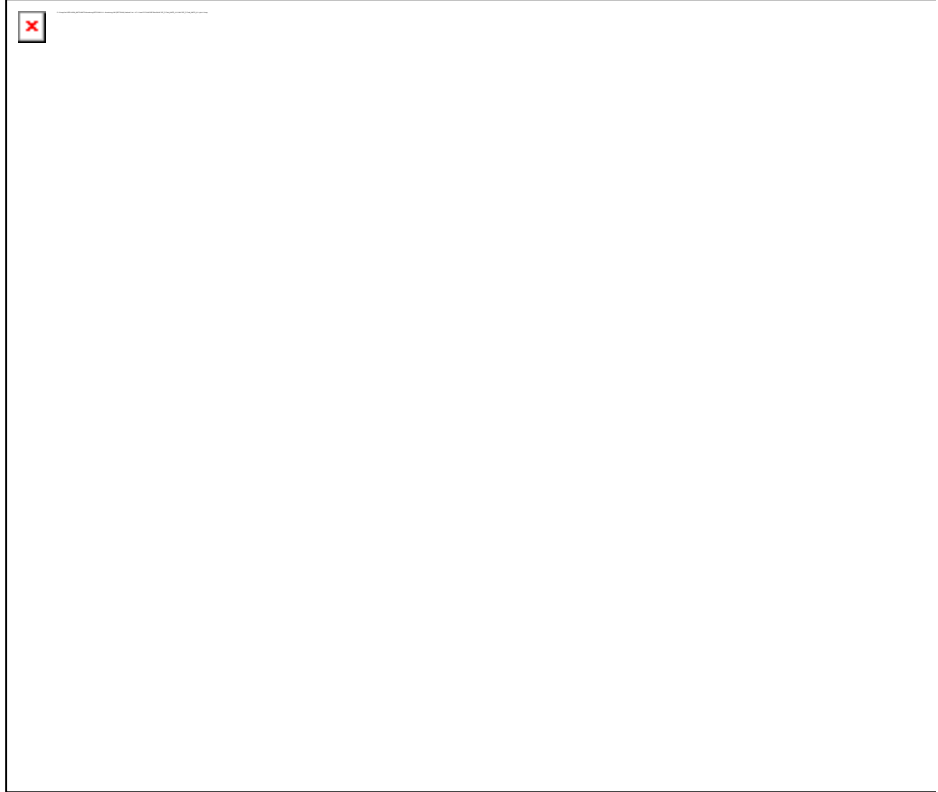


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0 dB = 36.450V/m = 31.23 dB V/m

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Date/Time: 6/29/2012 6:59:42 AM

Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_UMTS\_IV\_Tcoil**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD IV; Frequency: 1732.6 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 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 = 18.08 V/m; Power Drift = 0.19 dB

PMR not calibrated. PMF = 1.030 is applied.

E-field emissions = 39.49 V/m

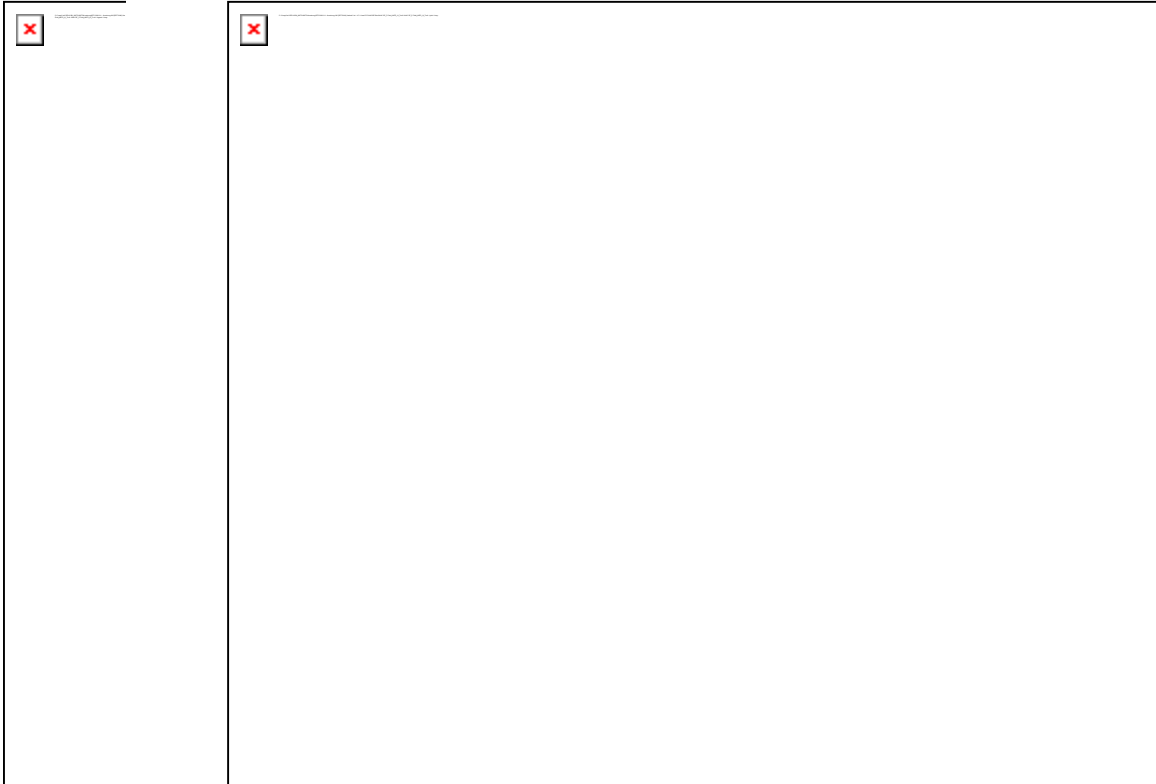
**Near-field category: M4 (AWF 0 dB)**




PMF scaled E-field

Grid 1 <b>M4</b> <b>39.49 V/m</b>	Grid 2 <b>M4</b> <b>38.03 V/m</b>	Grid 3 <b>M4</b> <b>32.06 V/m</b>
Grid 4 <b>M4</b> <b>22.47 V/m</b>	Grid 5 <b>M4</b> <b>29.23 V/m</b>	Grid 6 <b>M4</b> <b>29.50 V/m</b>
Grid 7 <b>M4</b> <b>43.07 V/m</b>	Grid 8 <b>M4</b> <b>47.16 V/m</b>	Grid 9 <b>M4</b> <b>43.86 V/m</b>

**Cursor:**  
 Total = 47.162 V/m  
 E Category: M4  
 Location: -5.5, 20, 8.7 mm



0 dB = 47.160V/m = 33.47 dB V/m

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Date/Time: 6/28/2012 6:32:59 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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 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 = 29.92 V/m; Power Drift = -0.06 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 44.30 V/m

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



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PMF scaled E-field

Grid 1 <b>M4</b> <b>40.94 V/m</b>	Grid 2 <b>M4</b> <b>42.40 V/m</b>	Grid 3 <b>M4</b> <b>41.25 V/m</b>
Grid 4 <b>M4</b> <b>23.57 V/m</b>	Grid 5 <b>M4</b> <b>37.22 V/m</b>	Grid 6 <b>M4</b> <b>38.06 V/m</b>
Grid 7 <b>M4</b> <b>31.27 V/m</b>	Grid 8 <b>M4</b> <b>44.30 V/m</b>	Grid 9 <b>M4</b> <b>44.18 V/m</b>

**Cursor:**

Total = 44.298 V/m

E Category: M4

Location: -7, 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 = 34.79 V/m; Power Drift = 0.00 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 41.07 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>37.18 V/m</b>	Grid 2 <b>M4</b> <b>41.07 V/m</b>	Grid 3 <b>M4</b> <b>40.87 V/m</b>
Grid 4 <b>M4</b> <b>23.96 V/m</b>	Grid 5 <b>M4</b> <b>38.28 V/m</b>	Grid 6 <b>M4</b> <b>39.10 V/m</b>
Grid 7 <b>M4</b> <b>25.00 V/m</b>	Grid 8 <b>M4</b> <b>40.04 V/m</b>	Grid 9 <b>M4</b> <b>40.19 V/m</b>



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**Cursor:**

Total = 41.065 V/m

E Category: M4

Location: -5.5, -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 = 36.61 V/m; Power Drift = -0.10 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 39.88 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>34.79 V/m</b>	Grid 2 <b>M4</b> <b>39.88 V/m</b>	Grid 3 <b>M4</b> <b>39.87 V/m</b>
Grid 4 <b>M4</b> <b>23.39 V/m</b>	Grid 5 <b>M4</b> <b>38.61 V/m</b>	Grid 6 <b>M4</b> <b>39.38 V/m</b>
Grid 7 <b>M4</b> <b>23.04 V/m</b>	Grid 8 <b>M4</b> <b>39.31 V/m</b>	Grid 9 <b>M4</b> <b>39.68 V/m</b>

**Cursor:**

Total = 39.880 V/m

E Category: M4

Location: -8, -25, 8.7 mm

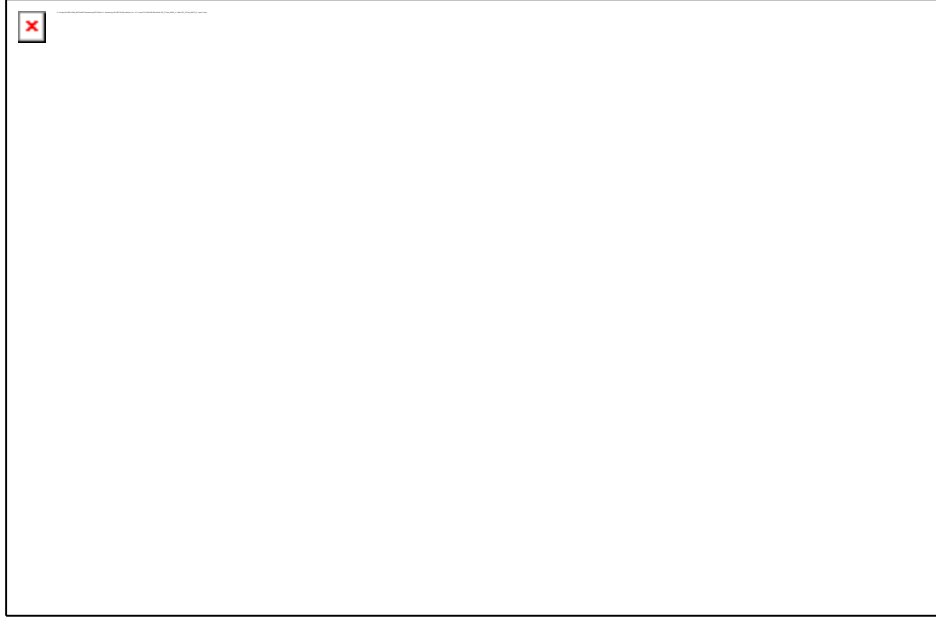


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0 dB = 44.300V/m = 32.93 dB V/m

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Date/Time: 6/29/2012 6:55:49 AM

Test Laboratory: RIM Testing Services

### **HAC RF\_E-Field\_UMTS\_II\_Tcoil**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD II; Frequency: 1852.4 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 = 29.76 V/m; Power Drift = 0.06 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 46.11 V/m

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

PMF scaled E-field

Grid 1 <b>M4</b> <b>47.13 V/m</b>	Grid 2 <b>M4</b> <b>47.13 V/m</b>	Grid 3 <b>M4</b> <b>40.39 V/m</b>
Grid 4 <b>M4</b> <b>30.55 V/m</b>	Grid 5 <b>M4</b> <b>36.38 V/m</b>	Grid 6 <b>M4</b> <b>36.31 V/m</b>
Grid 7 <b>M4</b> <b>37.39 V/m</b>	Grid 8 <b>M4</b> <b>46.11 V/m</b>	Grid 9 <b>M4</b> <b>44.35 V/m</b>

**Cursor:**

Total = 47.133 V/m


E Category: M4

Location: 4, -30, 8.7 mm



0 dB = 47.130V/m = 33.47 dB V/m



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Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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: 11/8/2011
- 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 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 = 0.20 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.39 A/m

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



PMF scaled H-field

<b>Grid 1 M4</b> <b>0.38 A/m</b>	<b>Grid 2 M4</b> <b>0.27 A/m</b>	<b>Grid 3 M4</b> <b>0.17 A/m</b>
<b>Grid 4 M4</b> <b>0.37 A/m</b>	<b>Grid 5 M4</b> <b>0.26 A/m</b>	<b>Grid 6 M4</b> <b>0.16 A/m</b>
<b>Grid 7 M4</b> <b>0.39 A/m</b>	<b>Grid 8 M4</b> <b>0.28 A/m</b>	<b>Grid 9 M4</b> <b>0.17 A/m</b>

**Cursor:**

Total = 0.394 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 = 0.07 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

<b>Grid 1 M4</b> <b>0.42 A/m</b>	<b>Grid 2 M4</b> <b>0.31 A/m</b>	<b>Grid 3 M4</b> <b>0.19 A/m</b>
<b>Grid 4 M4</b> <b>0.40 A/m</b>	<b>Grid 5 M4</b> <b>0.28 A/m</b>	<b>Grid 6 M4</b> <b>0.17 A/m</b>
<b>Grid 7 M4</b> <b>0.43 A/m</b>	<b>Grid 8 M4</b> <b>0.30 A/m</b>	<b>Grid 9 M4</b> <b>0.18 A/m</b>



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**Cursor:**

Total = 0.426 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 = 0.10 V/m; Power Drift = -0.02 dB  
 PMR not calibrated. PMF = 2.890 is applied.  
 H-field emissions = 0.54 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>0.23 A/m</b>
Grid 4 <b>M3</b> <b>0.51 A/m</b>	Grid 5 <b>M4</b> <b>0.37 A/m</b>	Grid 6 <b>M4</b> <b>0.23 A/m</b>
Grid 7 <b>M3</b> <b>0.54 A/m</b>	Grid 8 <b>M4</b> <b>0.40 A/m</b>	Grid 9 <b>M4</b> <b>0.25 A/m</b>

**Cursor:**

Total = 0.544 A/m  
 H Category: M3  
 Location: 25, 25, 8.7 mm



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0 dB = 0.390A/m = -8.18 dB A/m

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Date/Time: 6/29/2012 7:17:07 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: GSM 850; 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: 11/8/2011
- 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 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 = 0.10 V/m; Power Drift = -0.07 dB

PMR not calibrated. PMF = 2.890 is applied.

H-field emissions = 0.46 A/m

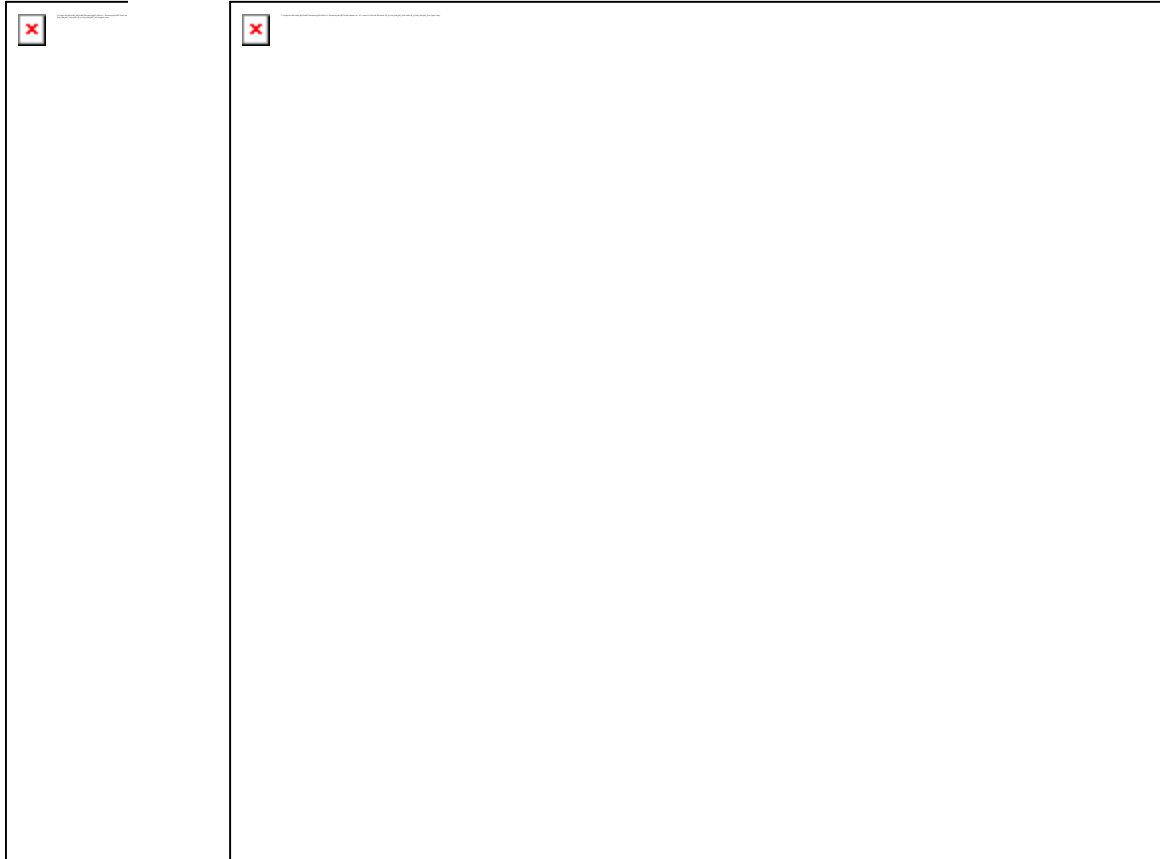
**Near-field category: M3 (AWF -5 dB)**

PMF scaled H-field


Grid 1 <b>M3</b> <b>0.46 A/m</b>	Grid 2 <b>M4</b> <b>0.32 A/m</b>	Grid 3 <b>M4</b> <b>0.19 A/m</b>
Grid 4 <b>M3</b> <b>0.46 A/m</b>	Grid 5 <b>M4</b> <b>0.32 A/m</b>	Grid 6 <b>M4</b> <b>0.20 A/m</b>
Grid 7 <b>M3</b> <b>0.50 A/m</b>	Grid 8 <b>M4</b> <b>0.35 A/m</b>	Grid 9 <b>M4</b> <b>0.23 A/m</b>

**Cursor:**

Total = 0.501 A/m  
 H Category: M3  
 Location: 20, 20, 8.7 mm



0 dB = 0.500A/m = -6.02 dB A/m

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Date/Time: 6/28/2012 9:08:36 AM

Test Laboratory: RIM Testing Services

### **HAC RF\_H-Field\_UMTS\_Band V**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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: 11/8/2011
- 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 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 = 0.17 dB

PMR not calibrated. PMF = 1.090 is applied.

H-field emissions = 0.15 A/m

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





Author Data  
**Daoud Attayi**

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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>0.06 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>
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>

**Cursor:**

Total = 0.154 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 = 0.09 V/m; Power Drift = 0.01 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>0.17 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>0.16 A/m</b>	Grid 5 <b>M4</b> <b>0.12 A/m</b>	Grid 6 <b>M4</b> <b>0.07 A/m</b>
Grid 7 <b>M4</b> <b>0.18 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>



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**Cursor:**

Total = 0.175 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 = 0.11 V/m; Power Drift = -0.09 dB  
 PMR not calibrated. PMF = 1.090 is applied.  
 H-field emissions = 0.21 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>0.19 A/m</b>	Grid 5 <b>M4</b> <b>0.14 A/m</b>	Grid 6 <b>M4</b> <b>0.09 A/m</b>
Grid 7 <b>M4</b> <b>0.21 A/m</b>	Grid 8 <b>M4</b> <b>0.16 A/m</b>	Grid 9 <b>M4</b> <b>0.10 A/m</b>

**Cursor:**

Total = 0.214 A/m  
 H Category: M4  
 Location: 25, 25, 8.7 mm



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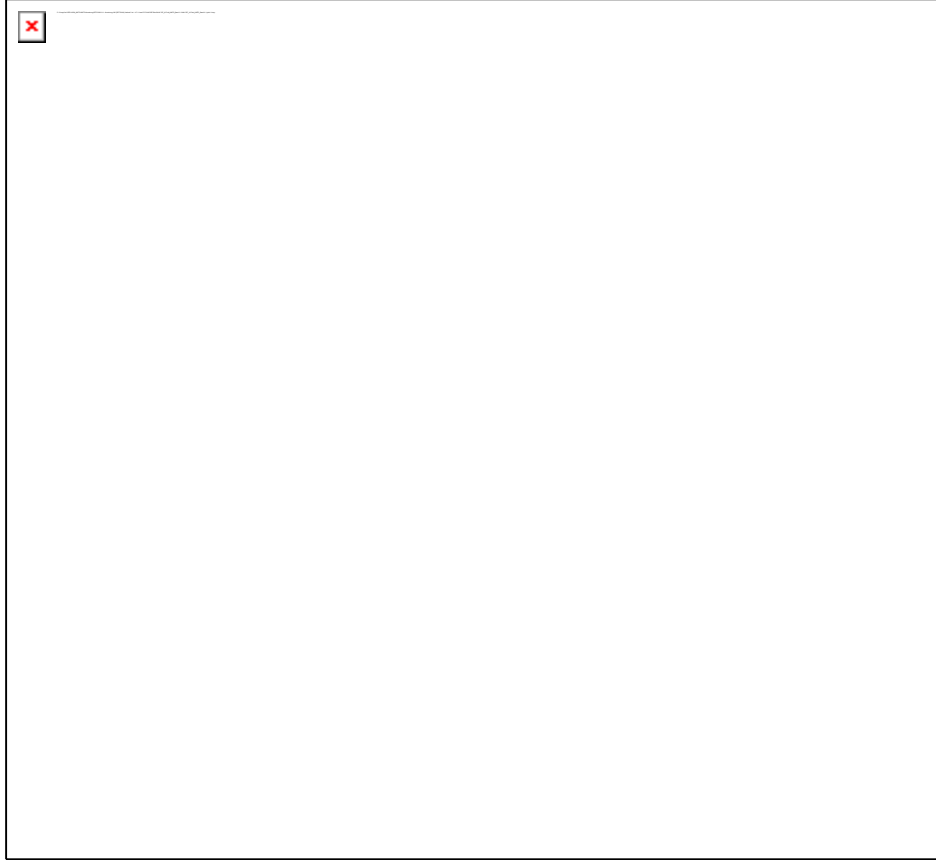
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**Daoud Attayi**


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0 dB = 0.140A/m = -17.08 dB A/m

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Date/Time: 6/29/2012 7:30:30 AM

Test Laboratory: RIM Testing Services

### **HAC RF\_H-Field\_UMTS\_Band V\_Tcoil**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD V; 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: 11/8/2011
- 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 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 = 0.11 V/m; Power Drift = 0.12 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

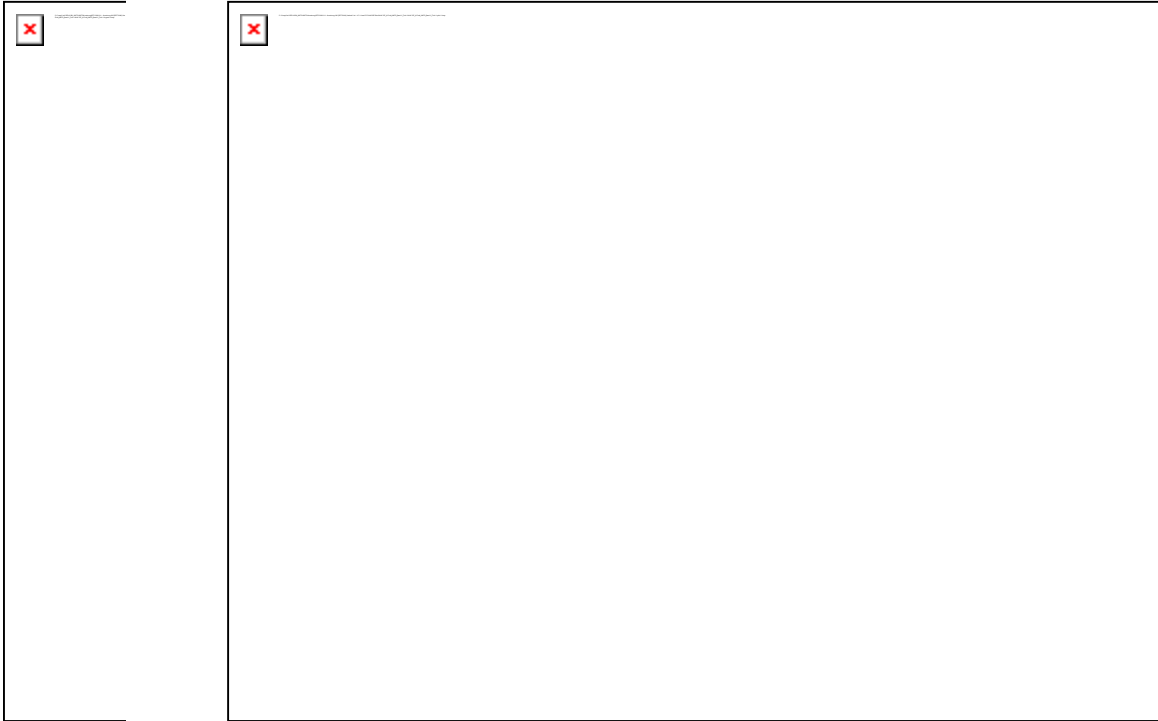
Grid 1 <b>M4</b> <b>0.18 A/m</b>	Grid 2 <b>M4</b> <b>0.13 A/m</b>	Grid 3 <b>M4</b> <b>0.08 A/m</b>
Grid 4 <b>M4</b> <b>0.18 A/m</b>	Grid 5 <b>M4</b> <b>0.13 A/m</b>	Grid 6 <b>M4</b> <b>0.08 A/m</b>
Grid 7 <b>M4</b> <b>0.20 A/m</b>	Grid 8 <b>M4</b> <b>0.14 A/m</b>	Grid 9 <b>M4</b> <b>0.09 A/m</b>

**Cursor:**


Total = 0.195 A/m

H Category: M4

Location: 20, 20, 8.7 mm



0 dB = 0.200A/m = -13.98 dB A/m

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Date/Time: 7/11/2012 12:43:37 PM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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: 11/8/2011
- 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 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 = 0.01 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.20 A/m

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

PMF scaled H-field

Grid 1 <b>M2</b> <b>0.25 A/m</b>	Grid 2 <b>M3</b> <b>0.23 A/m</b>	Grid 3 <b>M3</b> <b>0.20 A/m</b>
Grid 4 <b>M3</b> <b>0.20 A/m</b>	Grid 5 <b>M3</b> <b>0.20 A/m</b>	Grid 6 <b>M3</b> <b>0.20 A/m</b>
Grid 7 <b>M3</b> <b>0.18 A/m</b>	Grid 8 <b>M3</b> <b>0.17 A/m</b>	Grid 9 <b>M3</b> <b>0.16 A/m</b>

**Cursor:**

Total = 0.254 A/m  
 H Category: M2  
 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 = 0.07 V/m; Power Drift = -0.21 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

Grid 1 <b>M2</b> <b>0.27 A/m</b>	Grid 2 <b>M3</b> <b>0.25 A/m</b>	Grid 3 <b>M3</b> <b>0.21 A/m</b>
Grid 4 <b>M3</b> <b>0.21 A/m</b>	Grid 5 <b>M3</b> <b>0.21 A/m</b>	Grid 6 <b>M3</b> <b>0.19 A/m</b>
Grid 7 <b>M3</b> <b>0.18 A/m</b>	Grid 8 <b>M3</b> <b>0.17 A/m</b>	Grid 9 <b>M3</b> <b>0.14 A/m</b>





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**Cursor:**

Total = 0.269 A/m  
H Category: M2  
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 = 0.08 V/m; Power Drift = -0.15 dB  
PMR not calibrated. PMF = 2.860 is applied.  
H-field emissions = 0.23 A/m

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

PMF scaled H-field

Grid 1 <b>M2</b> <b>0.29 A/m</b>	Grid 2 <b>M2</b> <b>0.27 A/m</b>	Grid 3 <b>M3</b> <b>0.22 A/m</b>
Grid 4 <b>M3</b> <b>0.23 A/m</b>	Grid 5 <b>M3</b> <b>0.23 A/m</b>	Grid 6 <b>M3</b> <b>0.20 A/m</b>
Grid 7 <b>M3</b> <b>0.20 A/m</b>	Grid 8 <b>M3</b> <b>0.19 A/m</b>	Grid 9 <b>M3</b> <b>0.16 A/m</b>



Author Data  
**Daoud Attayi**


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0 dB = 0.260A/m = -11.70 dB A/m

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Date/Time: 7/11/2012 1:03:41 PM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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: 11/8/2011
- 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 measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_low\_chan\_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 = 0.10 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 M2</b> <b>0.27 A/m</b>	<b>Grid 2 M3</b> <b>0.23 A/m</b>	Grid 3 M3 <b>0.20 A/m</b>
<b>Grid 4 M3</b> <b>0.21 A/m</b>	<b>Grid 5 M3</b> <b>0.21 A/m</b>	Grid 6 M3 <b>0.20 A/m</b>
Grid 7 M3 <b>0.18 A/m</b>	Grid 8 M3 <b>0.18 A/m</b>	Grid 9 M3 <b>0.17 A/m</b>

**Cursor:**

Total = 0.265 A/m  
 H Category: M2  
 Location: 20, -30, 8.7 mm

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 -  
 2007: 15 mm from Probe Center to the  
 Device\_mid\_chan\_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 = 0.22 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

<b>Grid 1 M2</b> <b>0.27 A/m</b>	<b>Grid 2 M3</b> <b>0.24 A/m</b>	Grid 3 M3 <b>0.20 A/m</b>
<b>Grid 4 M3</b> <b>0.23 A/m</b>	<b>Grid 5 M3</b> <b>0.22 A/m</b>	Grid 6 M3 <b>0.19 A/m</b>
Grid 7 M3 <b>0.18 A/m</b>	Grid 8 M3 <b>0.18 A/m</b>	Grid 9 M3 <b>0.15 A/m</b>

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**Cursor:**

Total = 0.273 A/m  
 H Category: M2  
 Location: 18, -30, 8.7 mm

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device\_high\_chan\_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 = 0.04 dB

PMR not calibrated. PMF = 2.860 is applied.

H-field emissions = 0.24 A/m

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

PMF scaled H-field

<b>Grid 1 M2</b> <b>0.29 A/m</b>	<b>Grid 2 M2</b> <b>0.26 A/m</b>	<b>Grid 3 M3</b> <b>0.20 A/m</b>
<b>Grid 4 M3</b> <b>0.25 A/m</b>	<b>Grid 5 M3</b> <b>0.24 A/m</b>	<b>Grid 6 M3</b> <b>0.20 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>0.16 A/m</b>

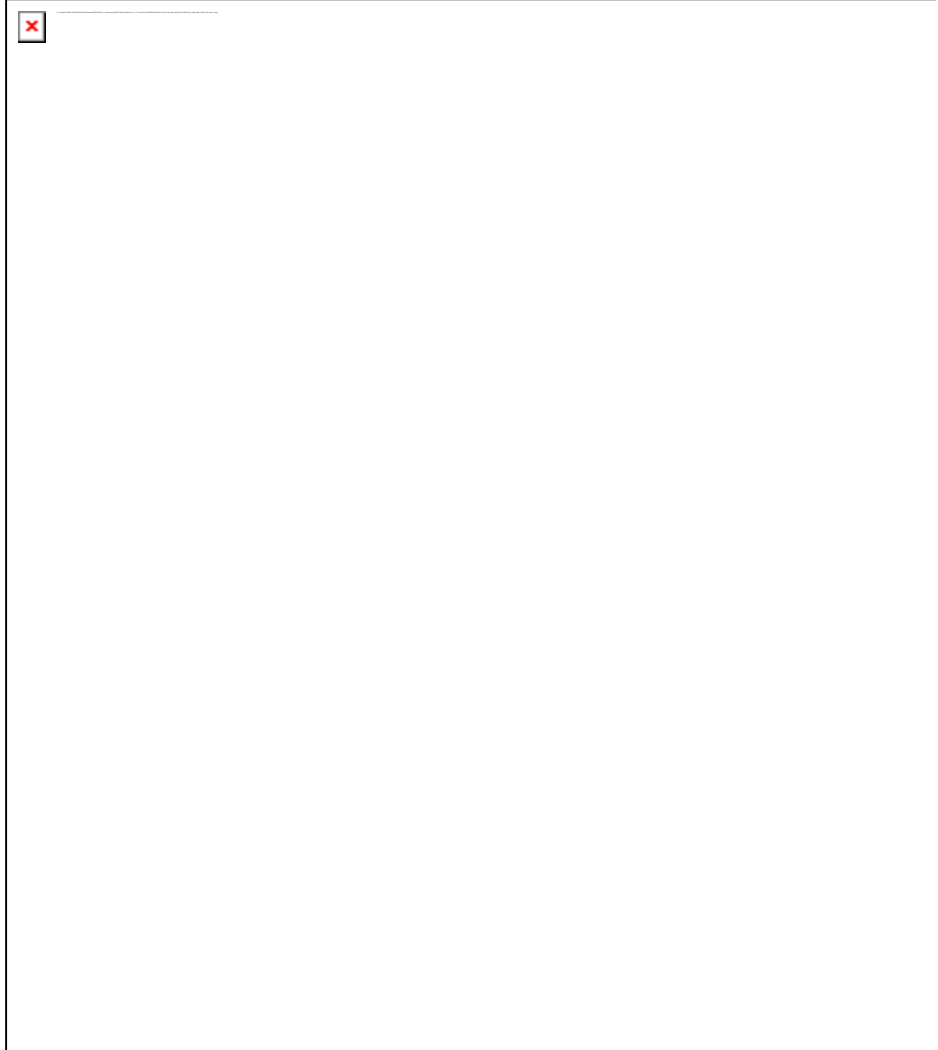


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0 dB = 0.270A/m = -11.37 dB A/m

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Date/Time: 6/28/2012 9:29:19 AM

Test Laboratory: RIM Testing Services

### **HAC RF\_H-Field\_UMTS\_Band IV**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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: 11/8/2011
- 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 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 = 0.10 V/m; Power Drift = 0.10 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.12 A/m

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



Author Data  
**Daoud Attayi**

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FCC ID  
**L6ARFE70UW**

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>0.09 A/m</b>	Grid 6 <b>M4</b> <b>0.09 A/m</b>
Grid 7 <b>M4</b> <b>0.12 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 = 0.121 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 = 0.12 V/m; Power Drift = 0.07 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>0.10 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>0.10 A/m</b>	Grid 5 <b>M4</b> <b>0.11 A/m</b>	Grid 6 <b>M4</b> <b>0.11 A/m</b>
Grid 7 <b>M4</b> <b>0.13 A/m</b>	Grid 8 <b>M4</b> <b>0.10 A/m</b>	Grid 9 <b>M4</b> <b>0.10 A/m</b>





Author Data  
**Daoud Attayi**

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**Cursor:**

Total = 0.125 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 = 0.12 V/m; Power Drift = 0.03 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 H-field emissions = 0.12 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>0.11 A/m</b>	Grid 3 <b>M4</b> <b>0.11 A/m</b>
Grid 4 <b>M4</b> <b>0.10 A/m</b>	Grid 5 <b>M4</b> <b>0.11 A/m</b>	Grid 6 <b>M4</b> <b>0.11 A/m</b>
Grid 7 <b>M4</b> <b>0.12 A/m</b>	Grid 8 <b>M4</b> <b>0.10 A/m</b>	Grid 9 <b>M4</b> <b>0.10 A/m</b>

**Cursor:**

Total = 0.118 A/m  
 H Category: M4  
 Location: 25, 25, 8.7 mm

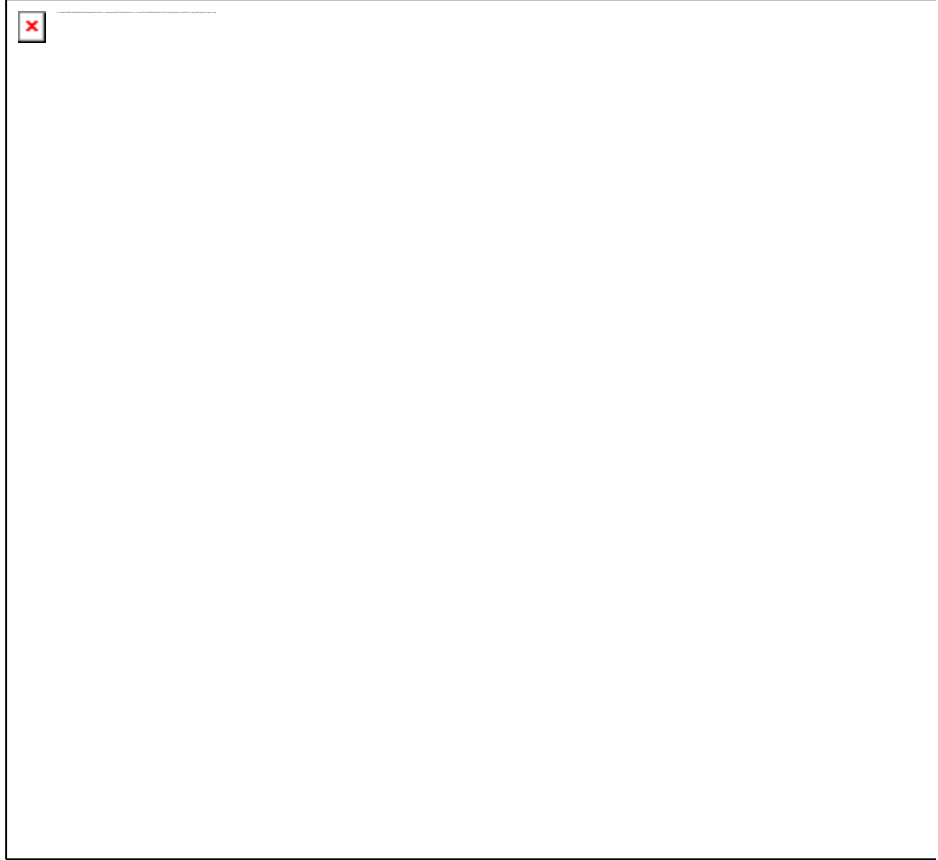


Author Data  
**Daoud Attayi**


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0 dB = 0.120A/m = -18.42 dB A/m

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Date/Time: 6/29/2012 7:34:06 AM

Test Laboratory: RIM Testing Services

### **HAC RF\_H-Field\_UMTS\_Band IV\_Tcoil**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD IV; Frequency: 1732.6 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: 11/8/2011
- 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 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 = 0.12 V/m; Power Drift = 0.09 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>0.11 A/m</b>	Grid 3 <b>M4</b> <b>0.11 A/m</b>
Grid 4 <b>M4</b> <b>0.10 A/m</b>	Grid 5 <b>M4</b> <b>0.11 A/m</b>	Grid 6 <b>M4</b> <b>0.11 A/m</b>
Grid 7 <b>M4</b> <b>0.11 A/m</b>	Grid 8 <b>M4</b> <b>0.11 A/m</b>	Grid 9 <b>M4</b> <b>0.10 A/m</b>

**Cursor:**


Total = 0.111 A/m

H Category: M4

Location: 20, 20, 8.7 mm



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

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Date/Time: 6/28/2012 9:45:52 AM

Test Laboratory: RIM Testing Services

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

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

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: 11/8/2011
- 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 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 = 0.12 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)**



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PMF scaled H-field

Grid 1 <b>M4</b> <b>0.15 A/m</b>	Grid 2 <b>M4</b> <b>0.13 A/m</b>	Grid 3 <b>M4</b> <b>0.12 A/m</b>
Grid 4 <b>M4</b> <b>0.11 A/m</b>	Grid 5 <b>M4</b> <b>0.12 A/m</b>	Grid 6 <b>M4</b> <b>0.12 A/m</b>
Grid 7 <b>M4</b> <b>0.11 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 = 0.148 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 = 0.11 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>0.15 A/m</b>	Grid 2 <b>M4</b> <b>0.13 A/m</b>	Grid 3 <b>M4</b> <b>0.11 A/m</b>
Grid 4 <b>M4</b> <b>0.11 A/m</b>	Grid 5 <b>M4</b> <b>0.11 A/m</b>	Grid 6 <b>M4</b> <b>0.10 A/m</b>
Grid 7 <b>M4</b> <b>0.10 A/m</b>	Grid 8 <b>M4</b> <b>0.09 A/m</b>	Grid 9 <b>M4</b> <b>0.08 A/m</b>



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**Cursor:**  
 Total = 0.146 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 = 0.11 V/m; Power Drift = -2.02 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>0.15 A/m</b>	Grid 2 <b>M4</b> <b>0.13 A/m</b>	Grid 3 <b>M4</b> <b>0.08 A/m</b>
Grid 4 <b>M4</b> <b>0.12 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>0.10 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>

**Cursor:**  
 Total = 0.145 A/m  
 H Category: M4  
 Location: 25, -25, 8.7 mm



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



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Test Laboratory: RIM Testing Services

### **HAC RF\_H-Field\_UMTS\_Band II\_Tcoil**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A2114F7**

Communication System: WCDMA FDD II; 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: 11/8/2011
- 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 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 = 0.12 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

H-field emissions = 0.12 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>0.13 A/m</b>	Grid 3 <b>M4</b> <b>0.10 A/m</b>
Grid 4 <b>M4</b> <b>0.13 A/m</b>	Grid 5 <b>M4</b> <b>0.12 A/m</b>	Grid 6 <b>M4</b> <b>0.10 A/m</b>
Grid 7 <b>M4</b> <b>0.10 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 = 0.156 A/m

H Category: M4

Location: 20, -30, 8.7 mm





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