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	Author Data <b>Andrew Becker</b>	Dates of Test <b>Sept 18 – Nov 7, 2012</b>	Test Report No <b>RTS-6012-1211-22</b>	FCC ID: <b>L6ARFH120LW</b>

**APPENDIX C2: SAR DISTRIBUTION PLOTS FOR MOBILE HOT SPOT**

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Date/Time: 9/21/2012 3:13:19 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_GPRS850\_mid\_chan\_amb\_temp\_23.5\_liq\_t  
emp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058**

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.976$  mho/m;  $\epsilon_r = 54.207$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.858 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

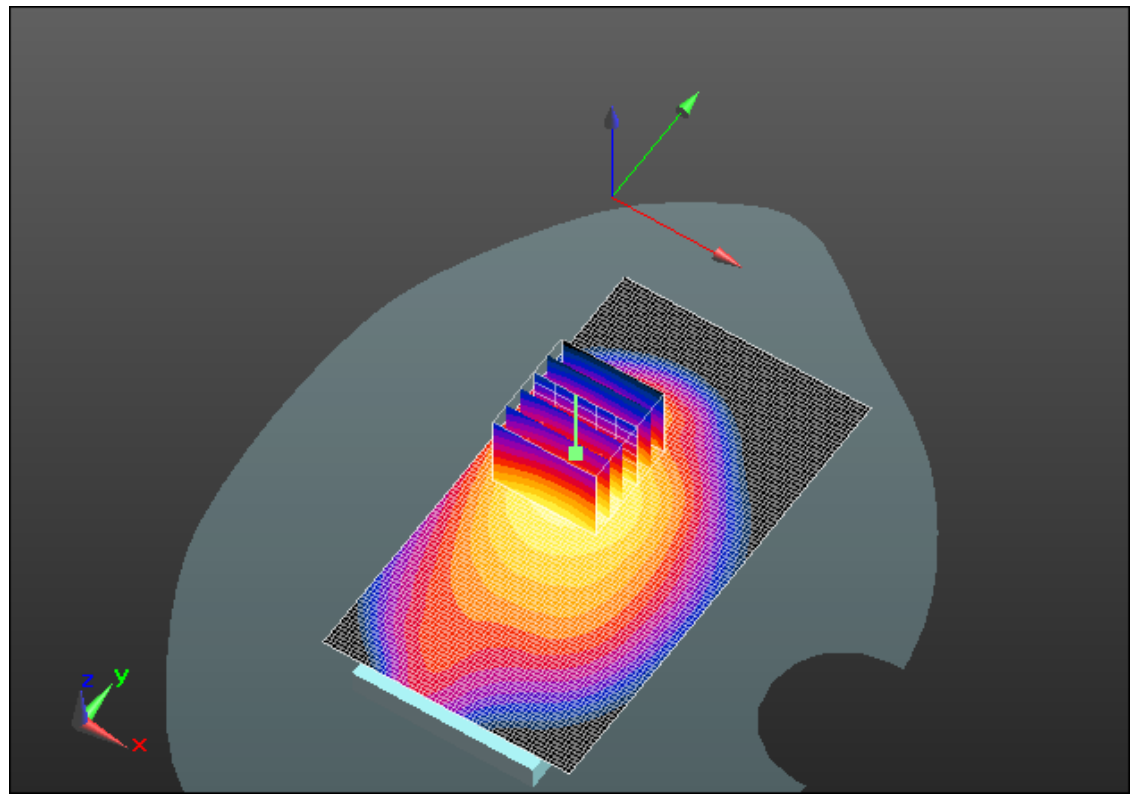
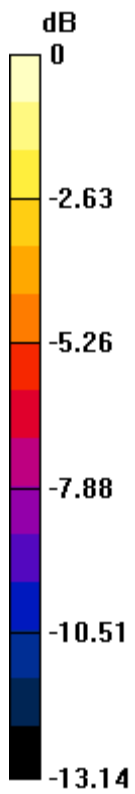
Reference Value = 22.973 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.1650


**SAR(1 g) = 0.732 mW/g; SAR(10 g) = 0.471 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.871 mW/g



0 dB = 0.870mW/g = -1.21 dB mW/g

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Date/Time: 9/24/2012 11:27:53 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Front\_GPRS850\_mid\_chan\_amb\_temp\_24.0\_liq\_t  
emp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058**

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.949$  mho/m;  $\epsilon_r = 52.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.759 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.116 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.9360

**SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.443 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.735 mW/g

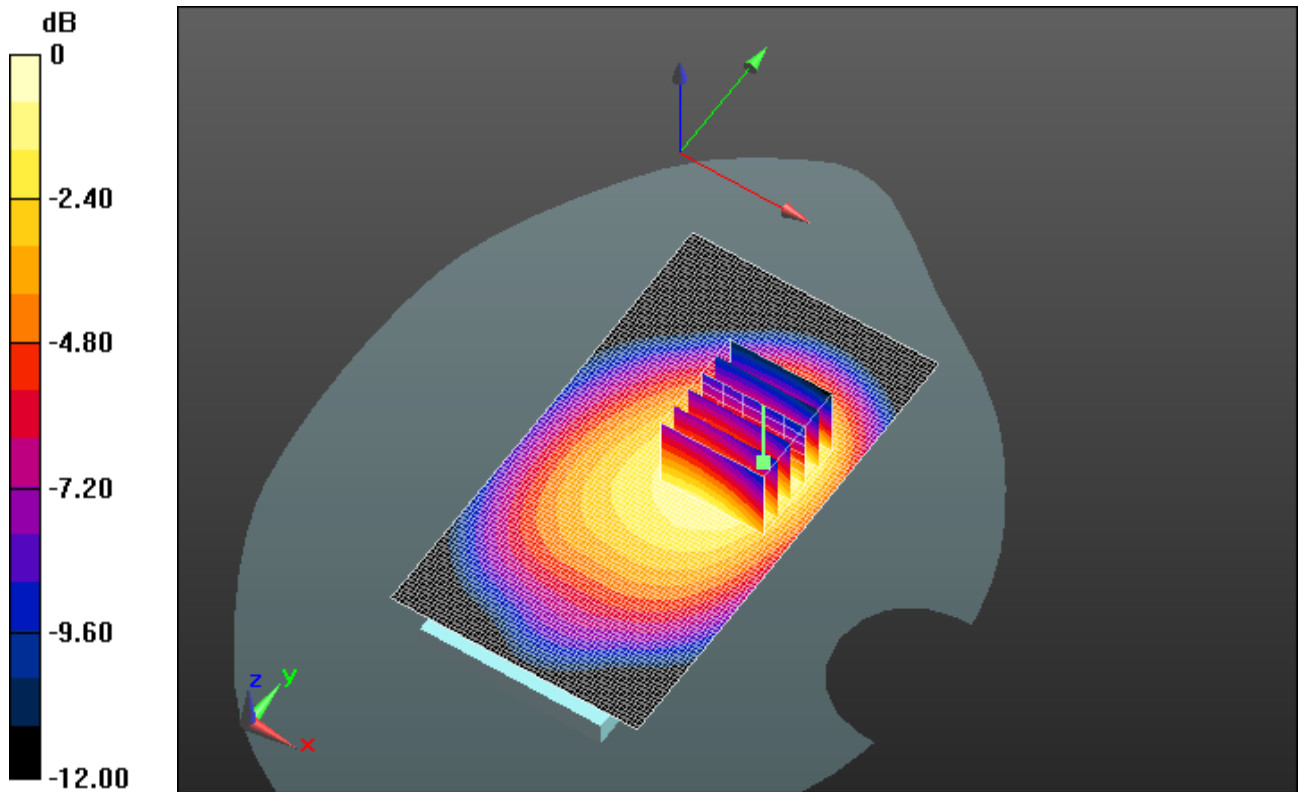
Author Data  
**Andrew Becker**

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0 dB = 0.740mW/g = -2.62 dB mW/g

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Date/Time: 9/24/2012 3:21:01 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Left\_GPRS850\_mid\_chan\_amb\_temp\_24.2C\_liq\_t  
emp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A781058**

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.949$  mho/m;  $\epsilon_r = 52.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.331 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x6x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

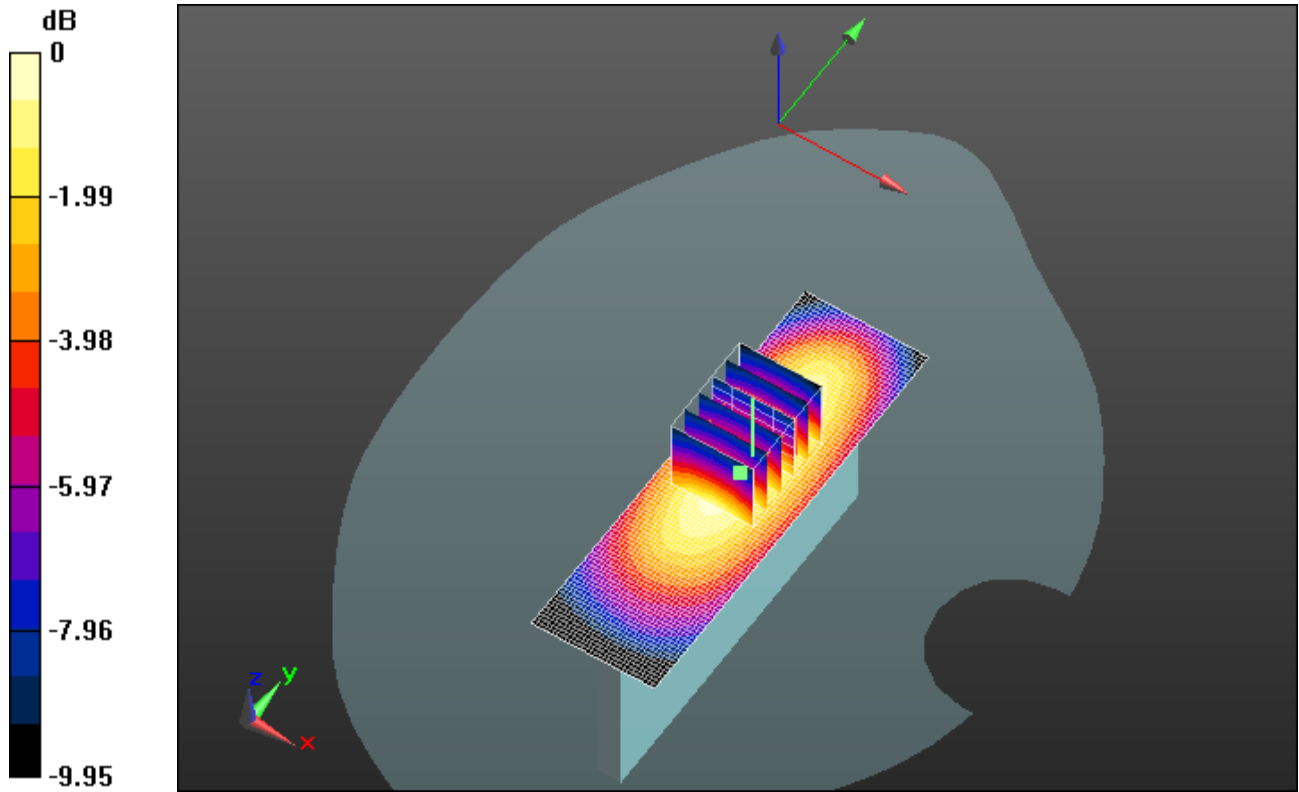
Reference Value = 19.338 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.4260


**SAR(1 g) = 0.295 mW/g; SAR(10 g) = 0.199 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.341 mW/g



0 dB = 0.340mW/g = -9.37 dB mW/g

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Date/Time: 9/24/2012 3:40:49 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Right\_GPRS850\_mid\_chan\_amb\_temp\_24.4C\_liq  
\_temp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A781058**

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.949$  mho/m;  $\epsilon_r = 52.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.391 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.363 V/m; Power Drift = 0.03 dB

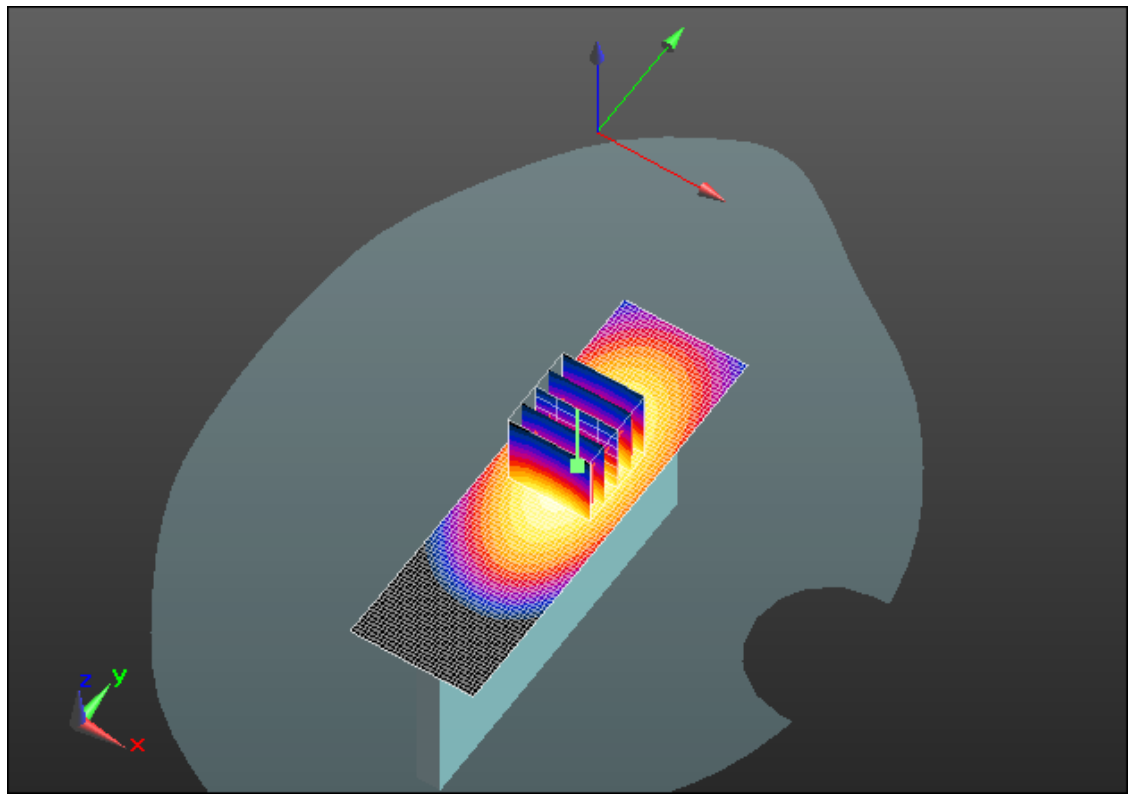
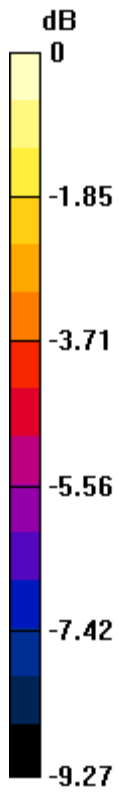
Peak SAR (extrapolated) = 0.4790

**SAR(1 g) = 0.343 mW/g; SAR(10 g) = 0.238 mW/g**


[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.392 mW/g





0 dB = 0.390mW/g = -8.18 dB mW/g

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Date/Time: 9/24/2012 2:06:41 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Bottom\_GPRS850\_mid\_chan\_amb\_temp\_24.5\_liq  
\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058**

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.949$  mho/m;  $\epsilon_r = 52.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (41x61x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.102 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.661 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.1430

**SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.048 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.104 mW/g

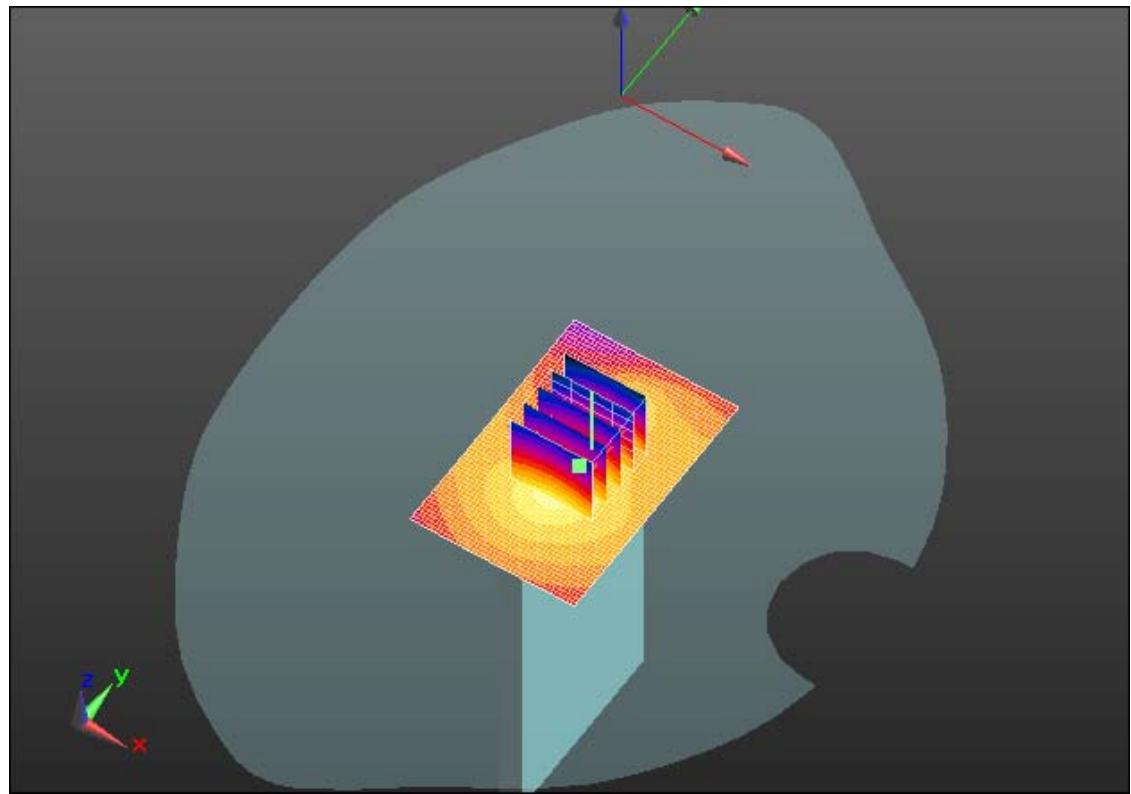
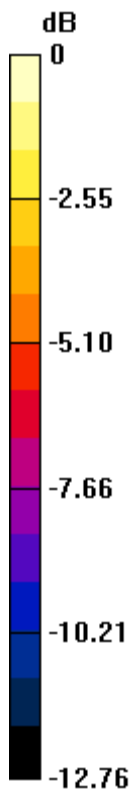
Author Data  
**Andrew Becker**

Dates of Test  
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0 dB = 0.100mW/g = -20.00 dB mW/g

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Date/Time: 9/24/2012 4:56:23 PM

Test Laboratory: RIM Testing Services

## MHS\_10mm\_Spacer\_Back\_Headset\_GPRS850\_mid\_chan\_amb\_temp\_24.3\_liq\_temp\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058**

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.949$  mho/m;  $\epsilon_r = 52.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:  
 $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.918 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 21.550 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.2250

**SAR(1 g) = 0.783 mW/g; SAR(10 g) = 0.499 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.911 mW/g

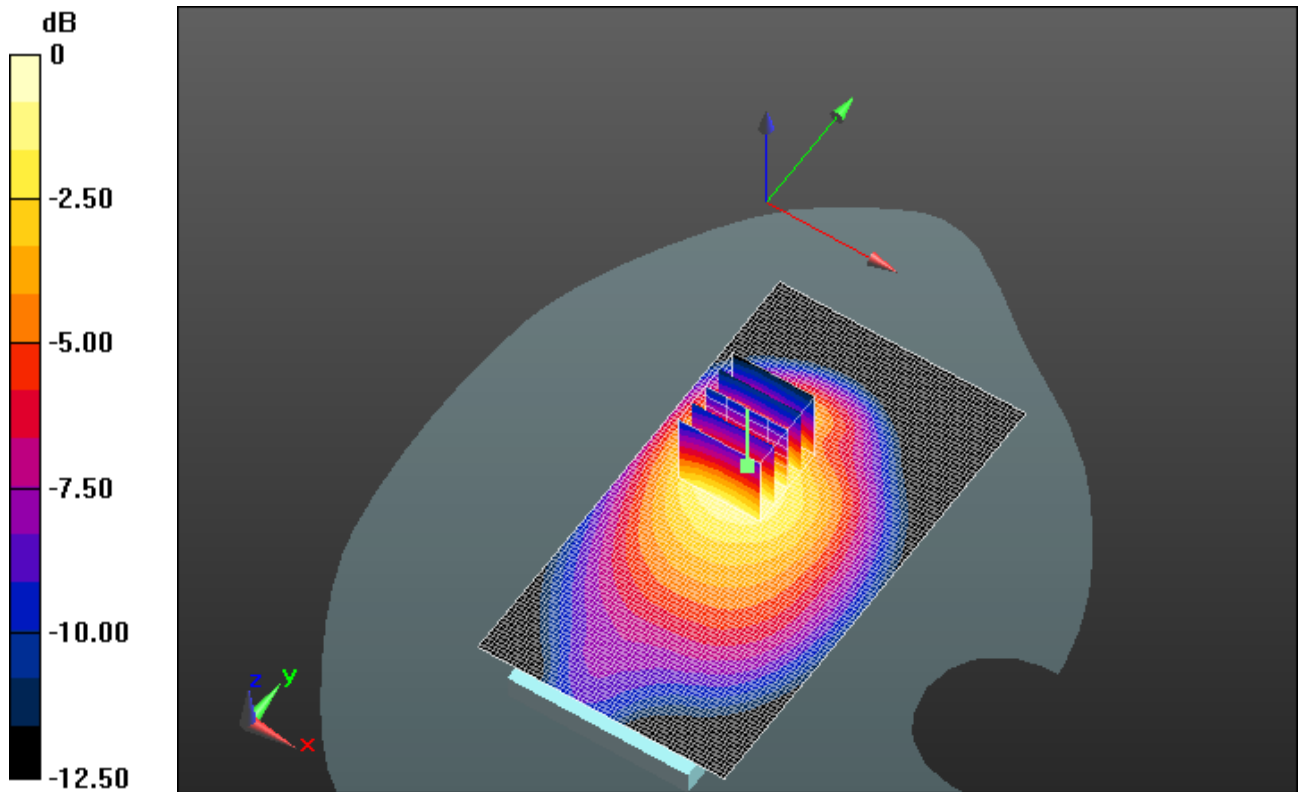
Author Data  
**Andrew Becker**

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0 dB = 0.910mW/g = -0.82 dB mW/g

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Date/Time: 9/24/2012 6:39:11 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_Headset\_GPRS850\_3slots\_low\_chan\_amb\_  
temp\_23.9\_liq\_temp\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058**

Communication System: GPRS 850 (3 slots); Frequency: 824.2 MHz  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.942$  mho/m;  $\epsilon_r = 53.026$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (interpolated) = 1.080 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**  
Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
Reference Value = 24.199 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 1.4130  
**SAR(1 g) = 0.898 mW/g; SAR(10 g) = 0.581 mW/g**  
Maximum value of SAR (measured) = 1.056 mW/g

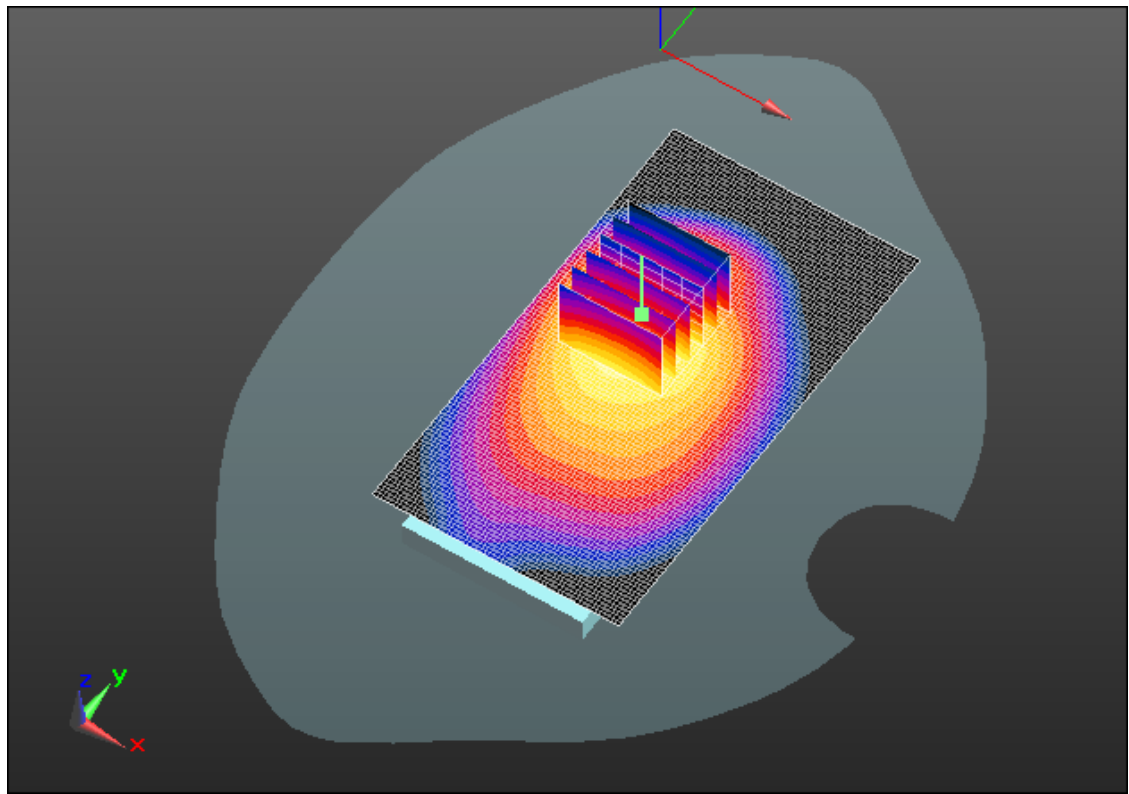
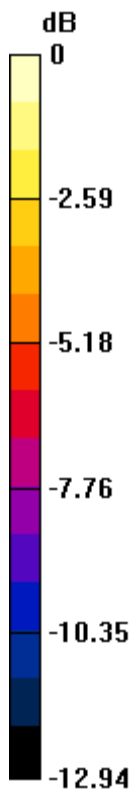
Author Data  
**Andrew Becker**

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0 dB = 1.060mW/g = 0.51 dB mW/g

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Date/Time: 9/24/2012 5:15:21 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_Headset\_GPRS850\_3slots\_mid\_chan\_amb\_  
temp\_24.1\_liq\_temp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058**

Communication System: GPRS 850 (3 slots); Frequency: 836.8 MHz  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.949$  mho/m;  $\epsilon_r = 52.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.064 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
Reference Value = 22.184 V/m; Power Drift = 0.26 dB  
Peak SAR (extrapolated) = 1.4290  
**SAR(1 g) = 0.906 mW/g; SAR(10 g) = 0.574 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.055 mW/g



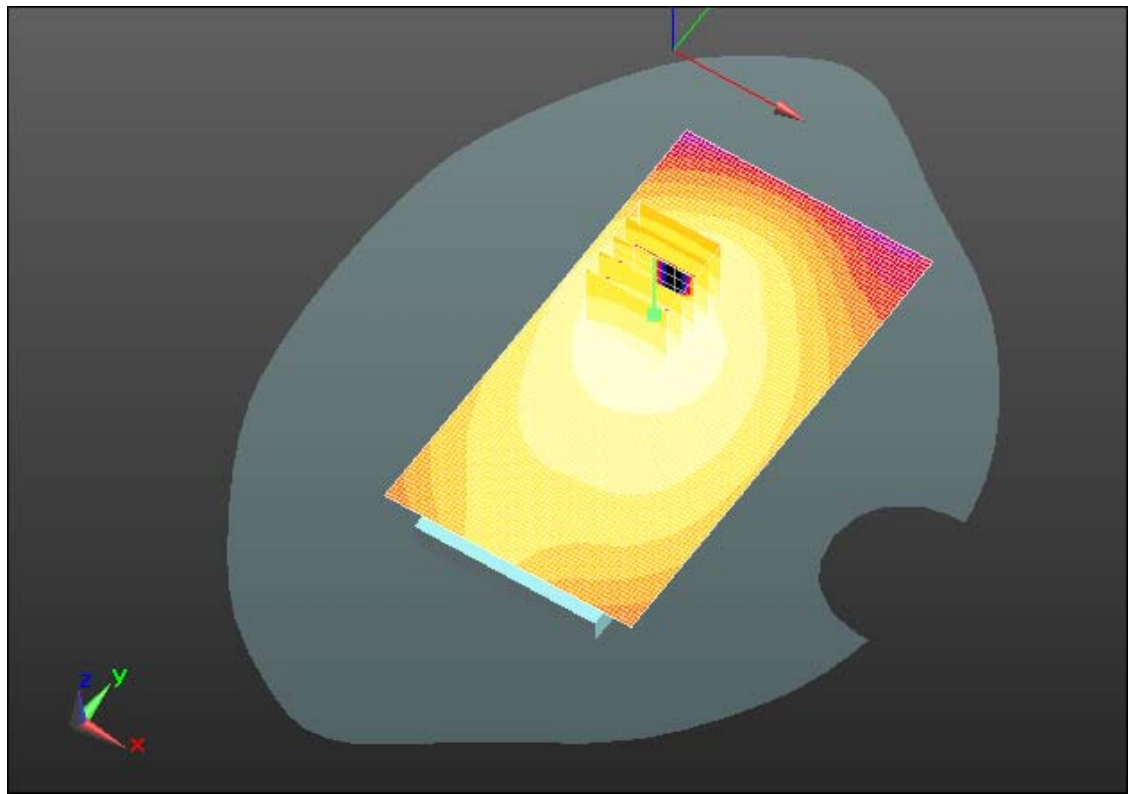
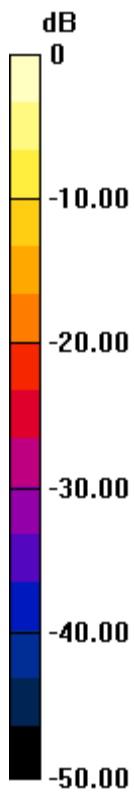
Author Data  
**Andrew Becker**

Dates of Test  
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0 dB = 1.050mW/g = 0.42 dB mW/g

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Date/Time: 9/24/2012 7:03:04 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_Headset\_GPRS850\_3slots\_high\_chan\_amb  
\_temp\_23.7\_liq\_temp\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058**

Communication System: GPRS 850 (3 slots); Frequency: 848.8 MHz  
 Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.957$  mho/m;  $\epsilon_r = 52.906$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section  
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:  
 $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.087 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 25.462 V/m; Power Drift = -0.22 dB  
 Peak SAR (extrapolated) = 1.4360  
**SAR(1 g) = 0.914 mW/g; SAR(10 g) = 0.593 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.076 mW/g

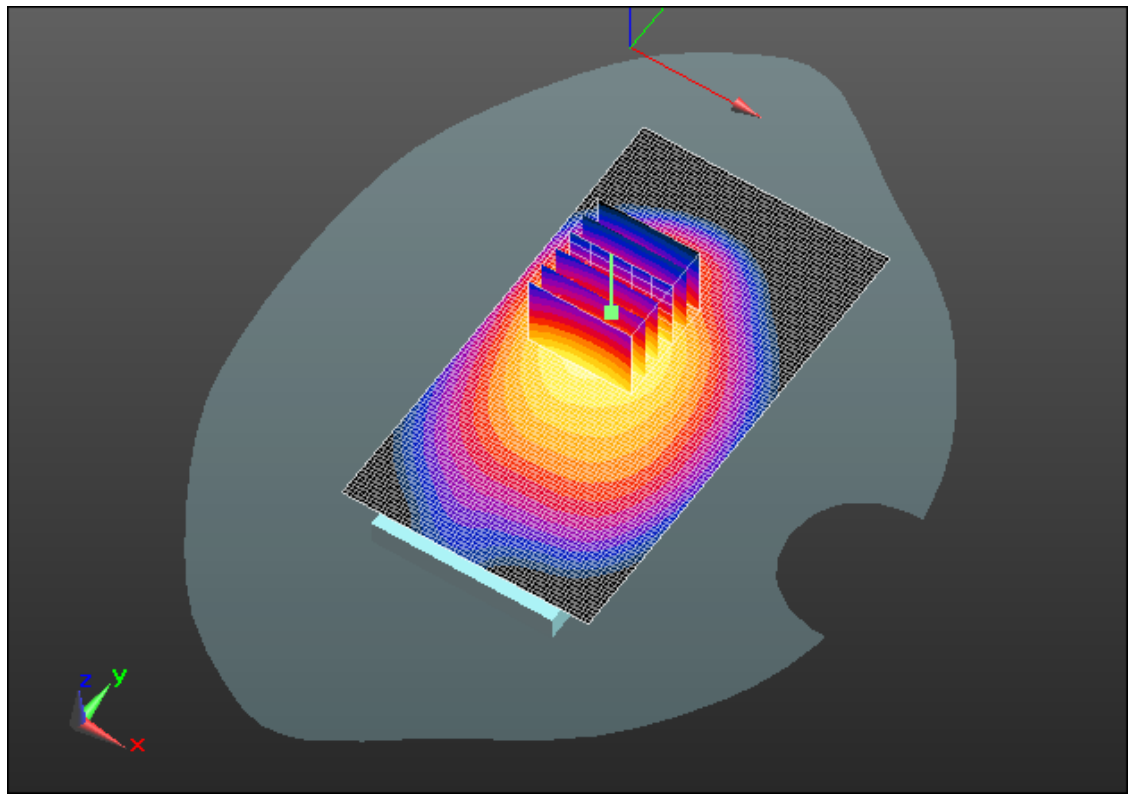
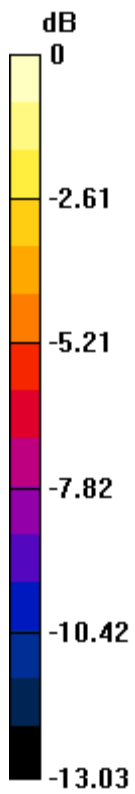
Author Data  
**Andrew Becker**

Dates of Test  
**Sept 18 – Nov 7, 2012**


Test Report No  
**RTS-6012-1211-22**

FCC ID:  
**L6ARFH120LW**

IC ID  
**2503A-RFH120LW**



0 dB = 1.080mW/g = 0.67 dB mW/g

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Date/Time: 9/24/2012 5:54:57 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_Headset\_GPRS850\_4slots\_mid\_chan\_amb\_  
temp\_24.3\_liq\_temp\_22.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058**

Communication System: GPRS 850 (4 slots); Frequency: 836.8 MHz  
 Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.949$  mho/m;  $\epsilon_r = 52.965$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: Flat Section  
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:  
 $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.843 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 20.955 V/m; Power Drift = -0.16 dB  
 Peak SAR (extrapolated) = 1.1010  
**SAR(1 g) = 0.700 mW/g; SAR(10 g) = 0.449 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.817 mW/g

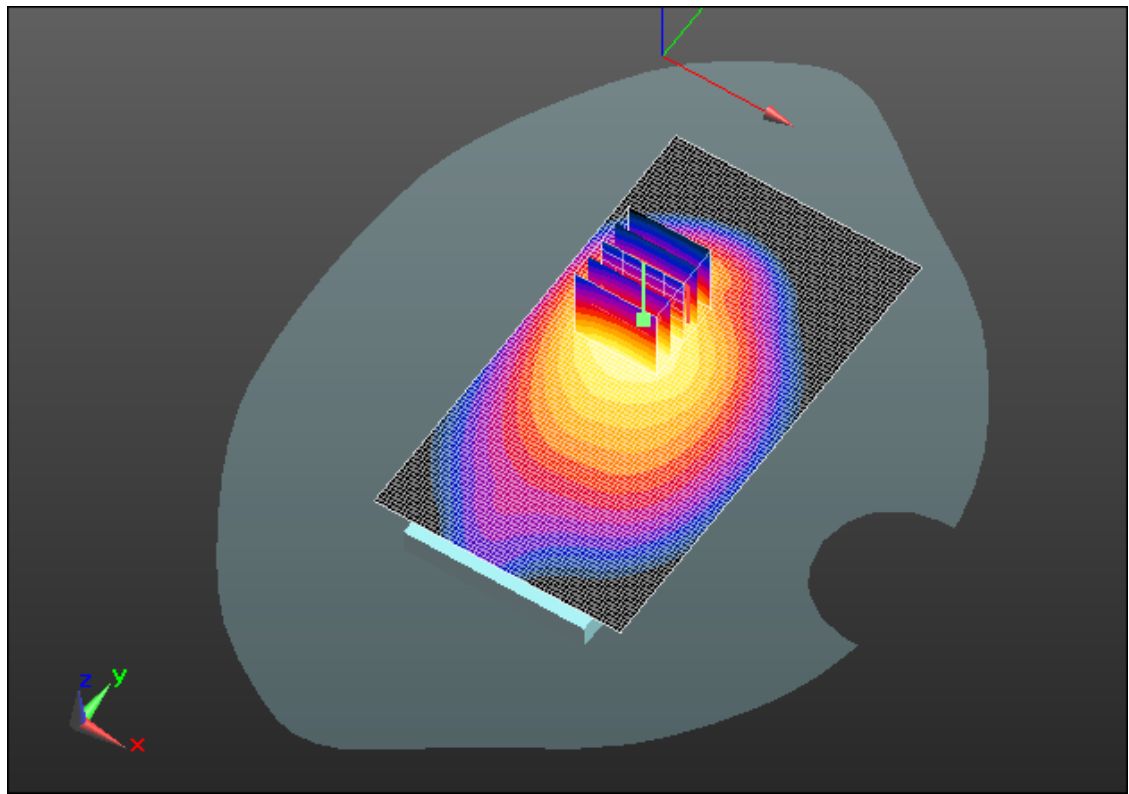
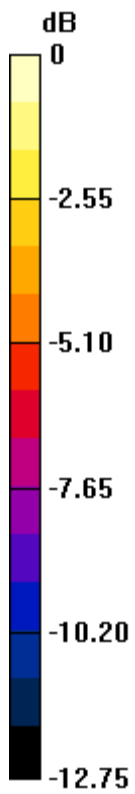
Author Data  
**Andrew Becker**

Dates of Test  
**Sept 18 – Nov 7, 2012**


Test Report No  
**RTS-6012-1211-22**

FCC ID:  
**L6ARFH120LW**

IC ID  
**2503A-RFH120LW**



0 dB = 0.820mW/g = -1.72 dB mW/g

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Date/Time: 11/1/2012 3:30:14 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_Headset\_GPRS850\_3slots\_high\_chan\_amb  
\_temp\_23.5\_liq\_temp\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: GPRS 850 (3 slots); Frequency: 848.8 MHz  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.964$  mho/m;  $\epsilon_r = 53.366$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.936 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
Reference Value = 23.821 V/m; Power Drift = -0.05 dB  
Peak SAR (extrapolated) = 1.2170  
**SAR(1 g) = 0.811 mW/g; SAR(10 g) = 0.561 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.928 mW/g

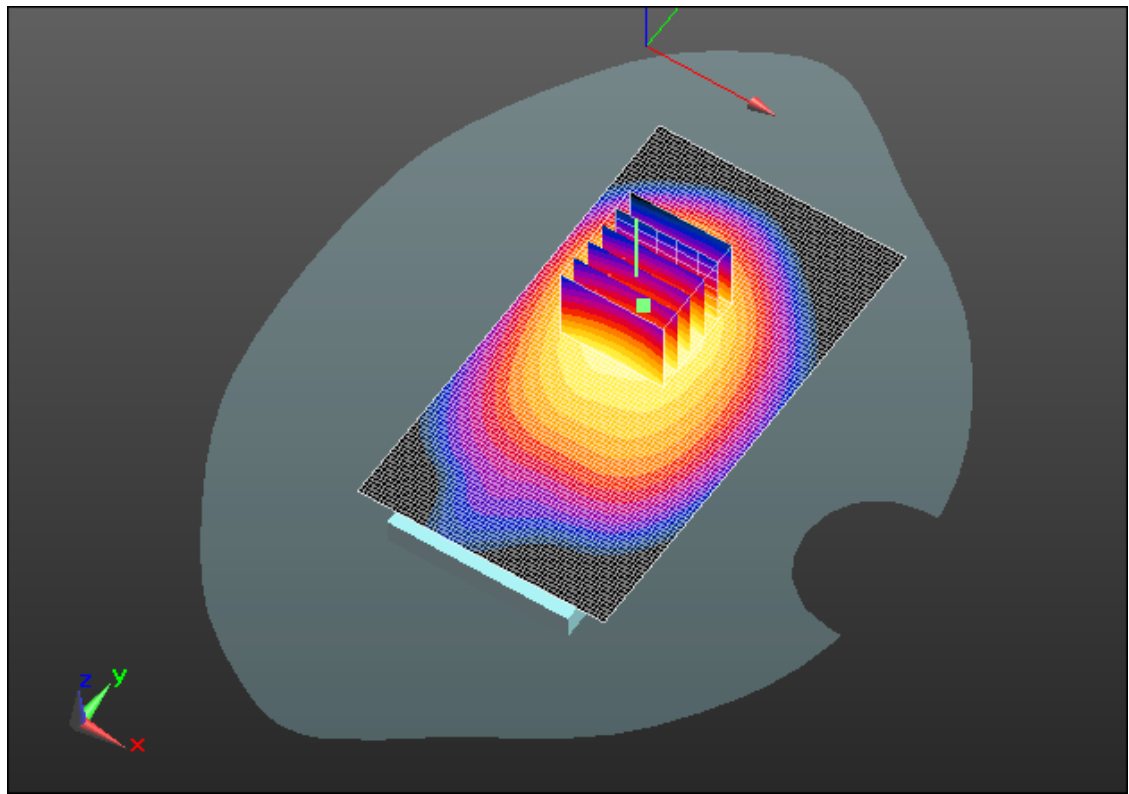
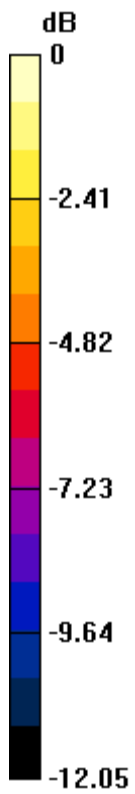
Author Data  
**Andrew Becker**

Dates of Test  
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Test Report No  
**RTS-6012-1211-22**

FCC ID:  
**L6ARFH120LW**

IC ID  
**2503A-RFH120LW**



0 dB = 0.930mW/g = -0.63 dB mW/g

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Date/Time: 9/21/2012 2:45:56 PM

Test Laboratory: RIM Testing Services

## MHS\_10mm\_Spacer\_Back\_UMTS\_Band\_V\_mid\_chan\_amb\_temp\_23.8 \_liq\_temp\_22.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.975$  mho/m;  $\epsilon_r = 54.209$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.646 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x7x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.505 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.8980

**SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.380 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.656 mW/g



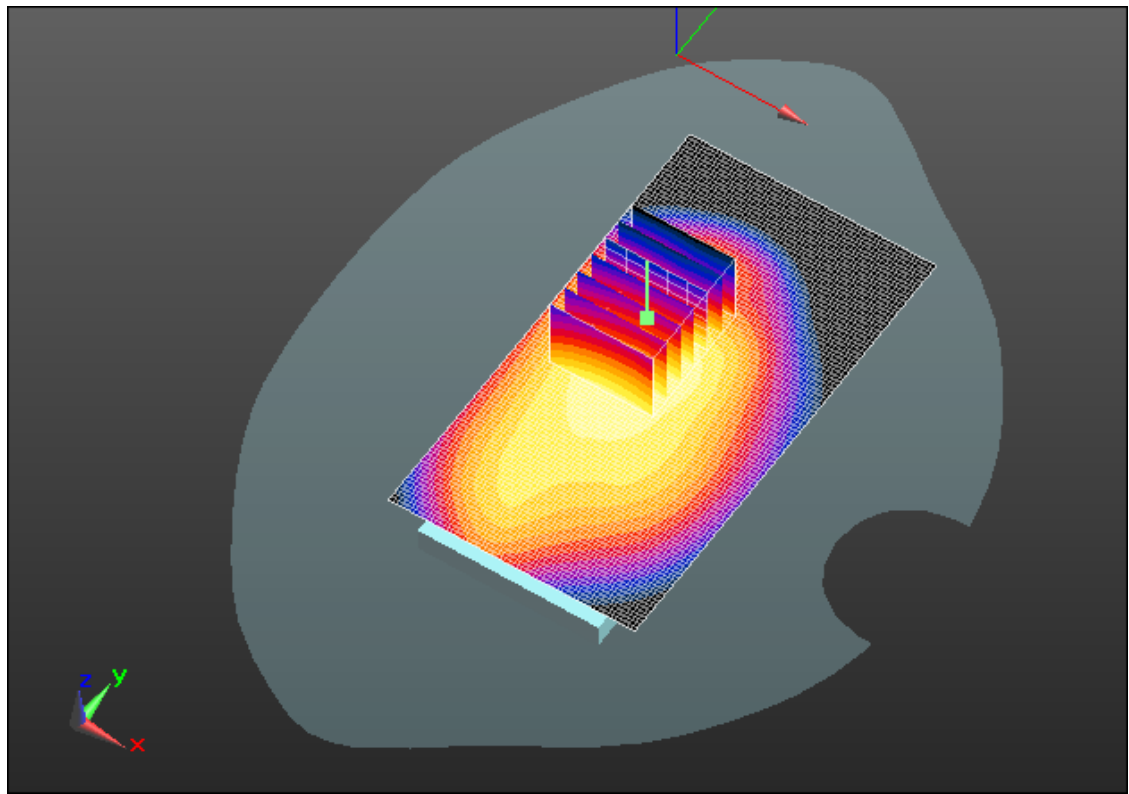
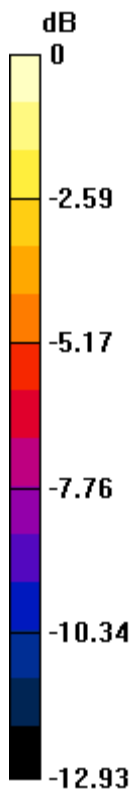
Author Data  
**Andrew Becker**

Dates of Test  
**Sept 18 – Nov 7, 2012**


Test Report No  
**RTS-6012-1211-22**

FCC ID:  
**L6ARFH120LW**

IC ID  
**2503A-RFH120LW**



0 dB = 0.660mW/g = -3.61 dB mW/g

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Date/Time: 9/21/2012 4:58:02 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Front\_UMTS\_Band\_V\_mid\_chan\_amb\_temp\_23.7  
\_liq\_temp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.975$  mho/m;  $\epsilon_r = 54.209$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.608 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (8x8x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.439 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.7450

**SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.407 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.612 mW/g

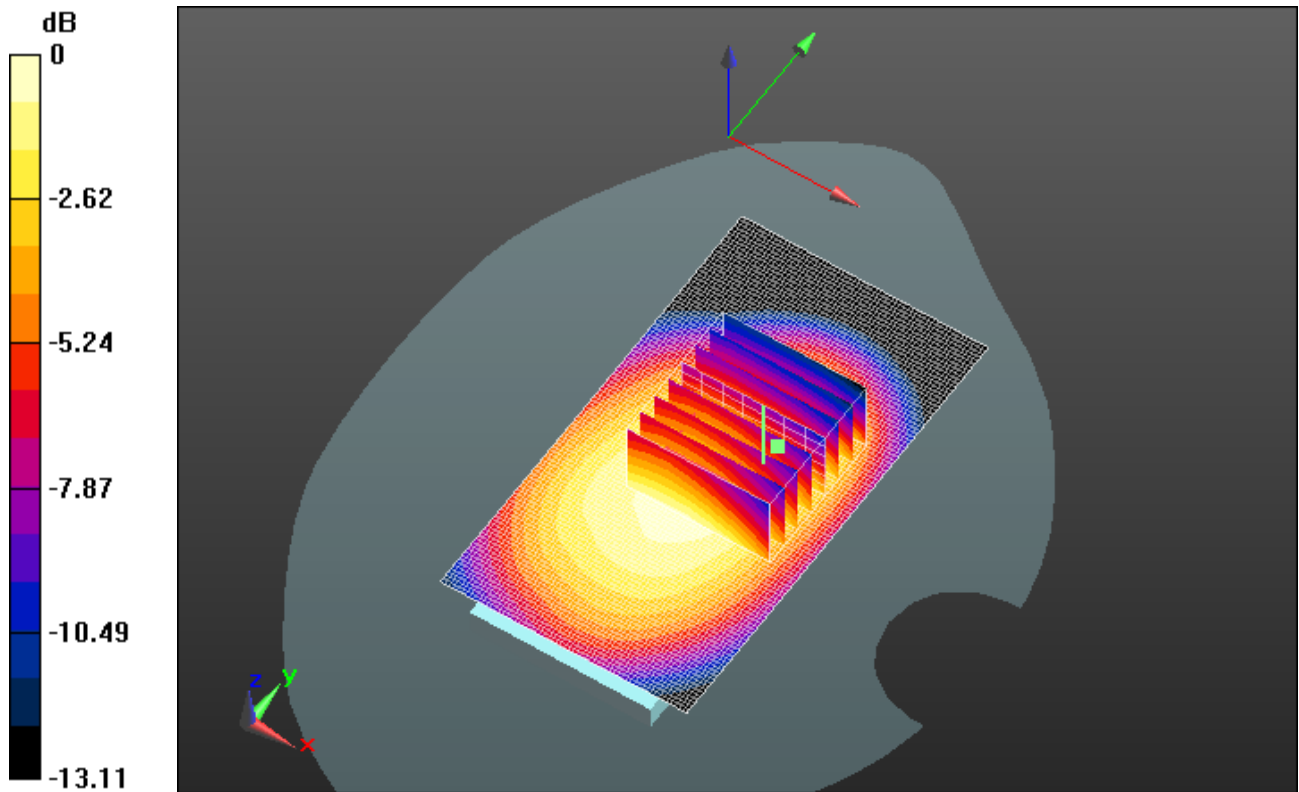
Author Data  
**Andrew Becker**

Dates of Test  
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Test Report No  
**RTS-6012-1211-22**

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**L6ARFH120LW**

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**2503A-RFH120LW**



0 dB = 0.610mW/g = -4.29 dB mW/g

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Date/Time: 9/24/2012 4:09:07 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Left\_UMTS\_Band\_V\_mid\_chan\_amb\_temp\_24.4C  
\_liq\_temp\_22.3C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A781058**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.949$  mho/m;  $\epsilon_r = 52.967$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.417 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.525 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.5290

**SAR(1 g) = 0.370 mW/g; SAR(10 g) = 0.253 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.430 mW/g

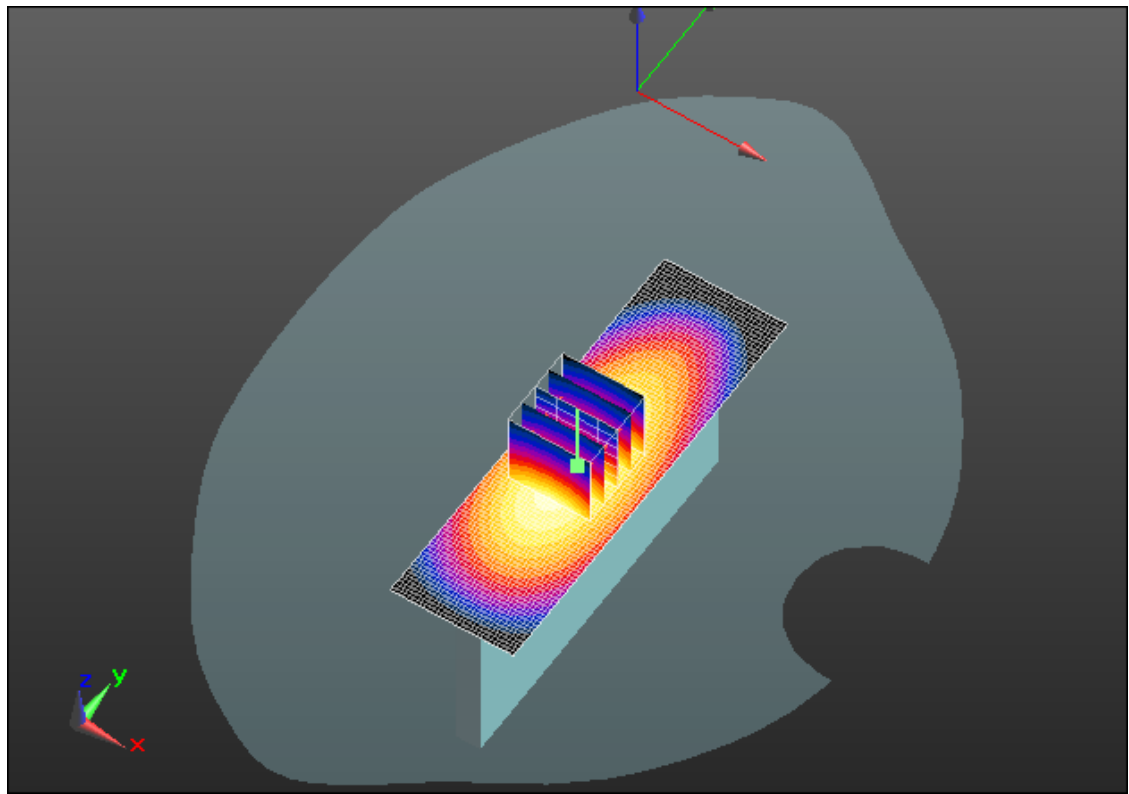
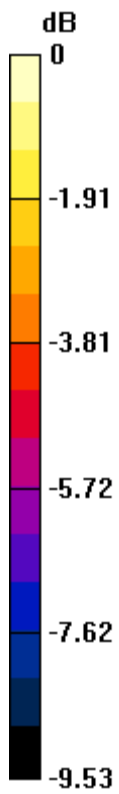
Author Data  
**Andrew Becker**

Dates of Test  
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0 dB = 0.430mW/g = -7.33 dB mW/g

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Date/Time: 9/24/2012 3:55:10 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Right\_UMTS\_Band\_V\_mid\_chan\_amb\_temp\_24.4  
C\_liq\_temp\_22.3C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 2A781058**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.949$  mho/m;  $\epsilon_r = 52.967$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

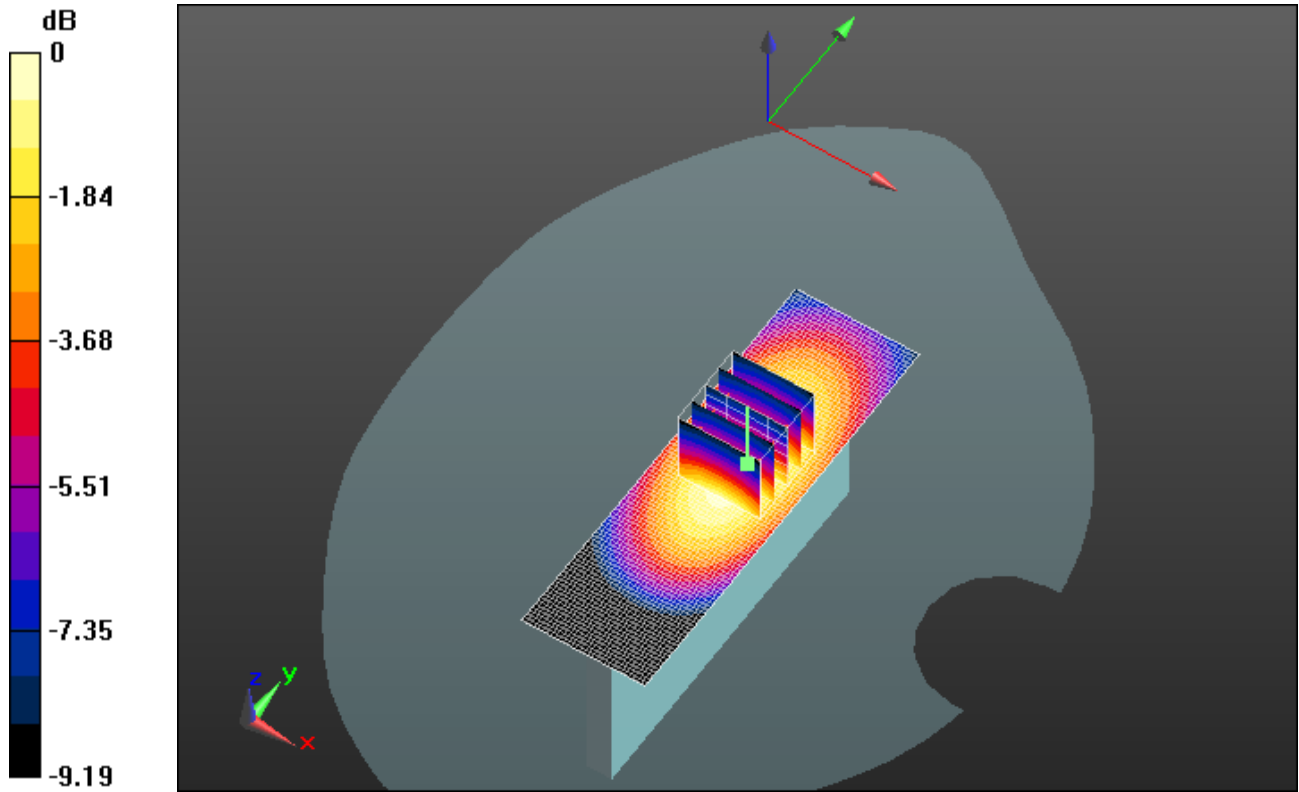
Maximum value of SAR (interpolated) = 0.505 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**


Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
Reference Value = 22.963 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 0.6110  
**SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.302 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.501 mW/g



0 dB = 0.500mW/g = -6.02 dB mW/g

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Date/Time: 9/24/2012 1:39:21 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Bottom\_UMTS\_Band\_V\_mid\_chan\_amb\_temp\_24  
.5\_liq\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.949$  mho/m;  $\epsilon_r = 52.967$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (41x61x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.106 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.775 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.1520

**SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.047 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.104 mW/g



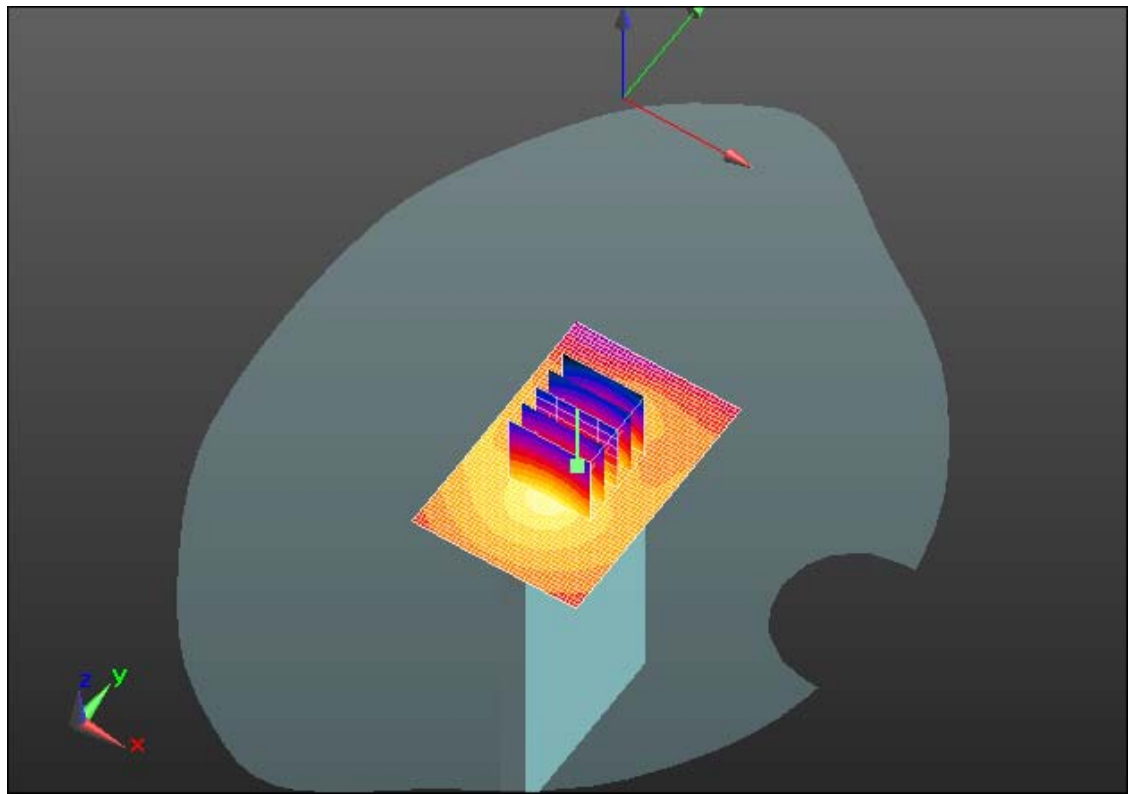
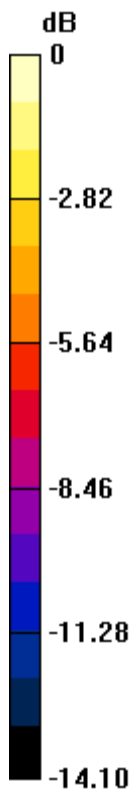
Author Data  
**Andrew Becker**

Dates of Test  
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**L6ARFH120LW**

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0 dB = 0.100mW/g = -20.00 dB mW/g

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Date/Time: 9/24/2012 4:31:21 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_Headset\_UMTS\_Band\_V\_mid\_chan\_amb\_t  
emp\_24.3\_liq\_temp\_22.3C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A781058**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.949$  mho/m;  $\epsilon_r = 52.967$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.644 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.318 V/m; Power Drift = 0.22 dB

Peak SAR (extrapolated) = 0.8710

**SAR(1 g) = 0.553 mW/g; SAR(10 g) = 0.360 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.649 mW/g

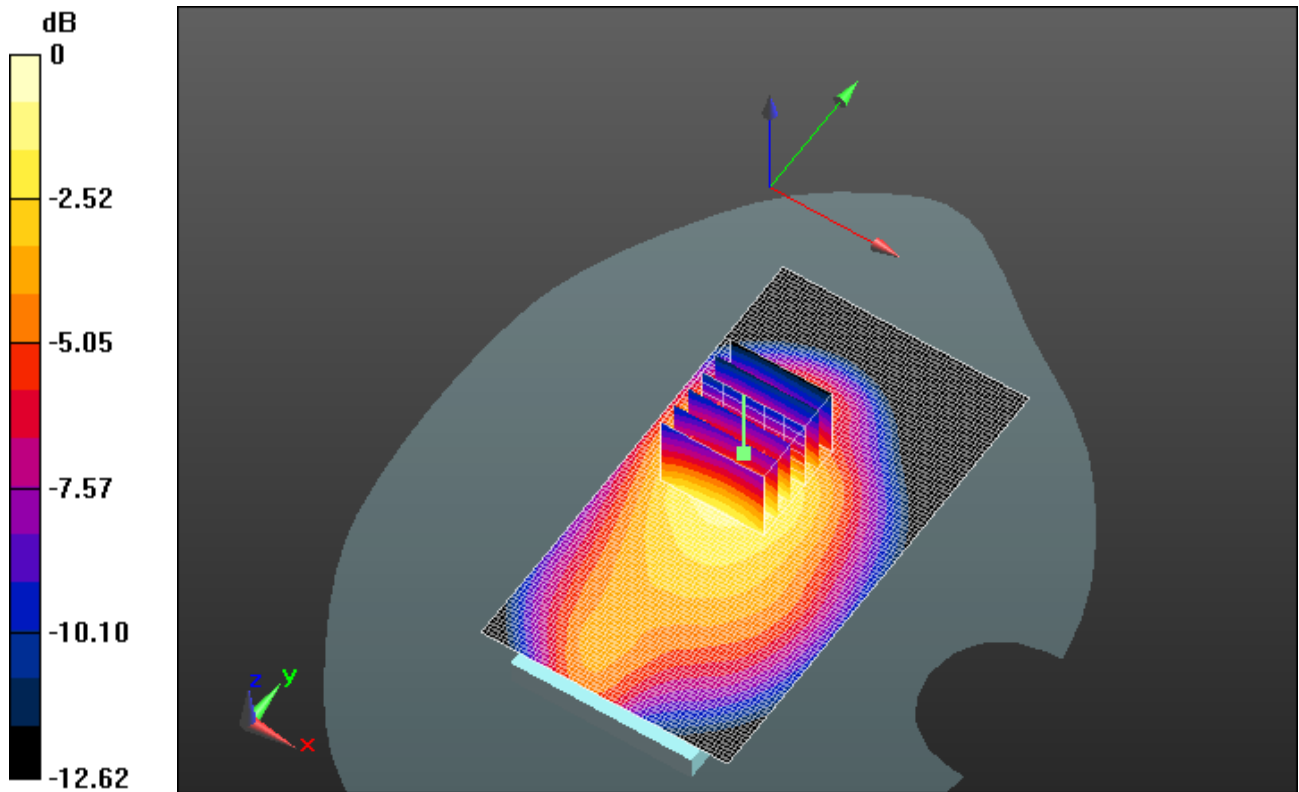
Author Data  
**Andrew Becker**

Dates of Test  
**Sept 18 – Nov 7, 2012**


Test Report No  
**RTS-6012-1211-22**

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**L6ARFH120LW**

IC ID  
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0 dB = 0.650mW/g = -3.74 dB mW/g

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Date/Time: 11/1/2012 8:27:08 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_GPRS\_1900\_low\_chan\_amb\_temp\_22.8\_liq  
\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: GPRS 1900; Frequency: 1850.2 MHz

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.491$  mho/m;  $\epsilon_r = 52.379$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.921 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 5.697 V/m; Power Drift = -0.0022 dB

Peak SAR (extrapolated) = 1.2820

**SAR(1 g) = 0.762 mW/g; SAR(10 g) = 0.413 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.932 mW/g

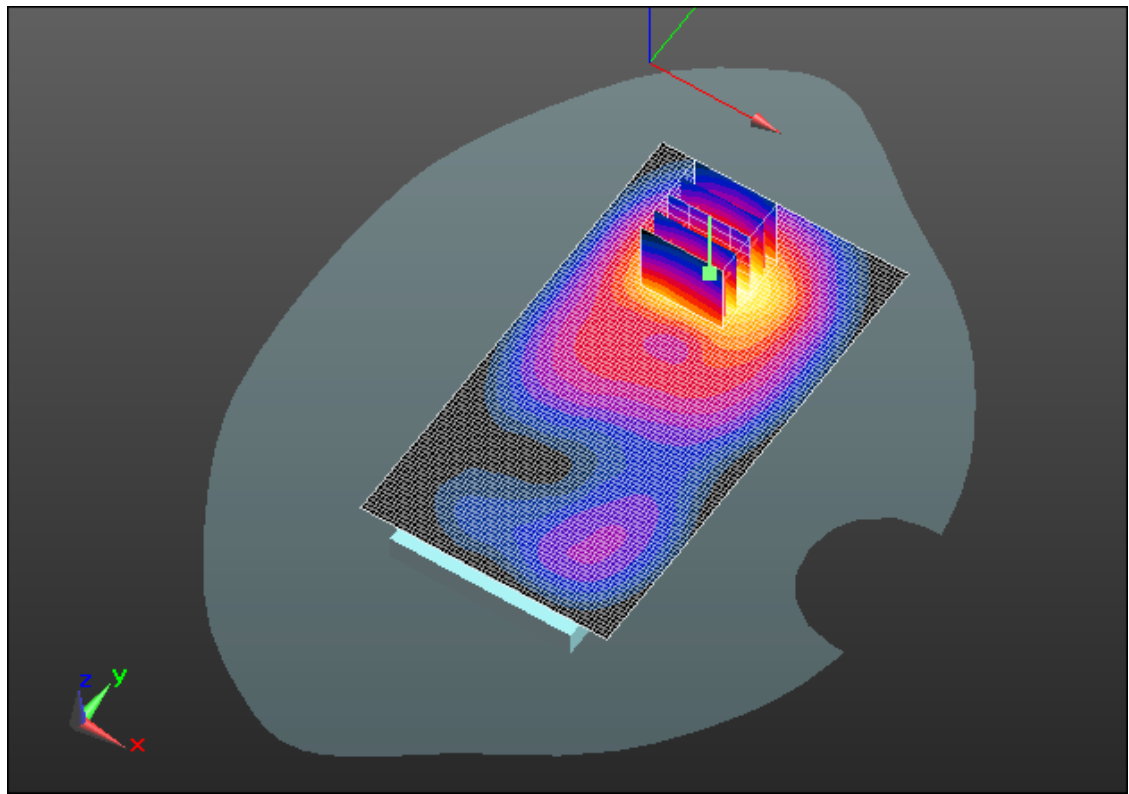
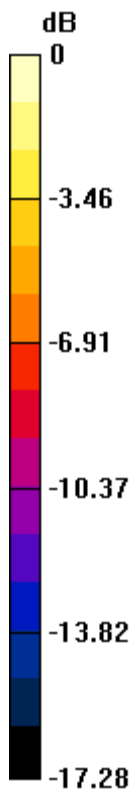
Author Data  
**Andrew Becker**

Dates of Test  
**Sept 18 – Nov 7, 2012**


Test Report No  
**RTS-6012-1211-22**

FCC ID:  
**L6ARFH120LW**

IC ID  
**2503A-RFH120LW**



0 dB = 0.930mW/g = -0.63 dB mW/g

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Date/Time: 11/1/2012 8:09:56 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_GPRS\_1900\_mid\_chan\_amb\_temp\_22.8\_liq  
\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.525$  mho/m;  $\epsilon_r = 52.284$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 1.097 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 5.667 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.5710

**SAR(1 g) = 0.907 mW/g; SAR(10 g) = 0.486 mW/g**

Maximum value of SAR (measured) = 1.120 mW/g

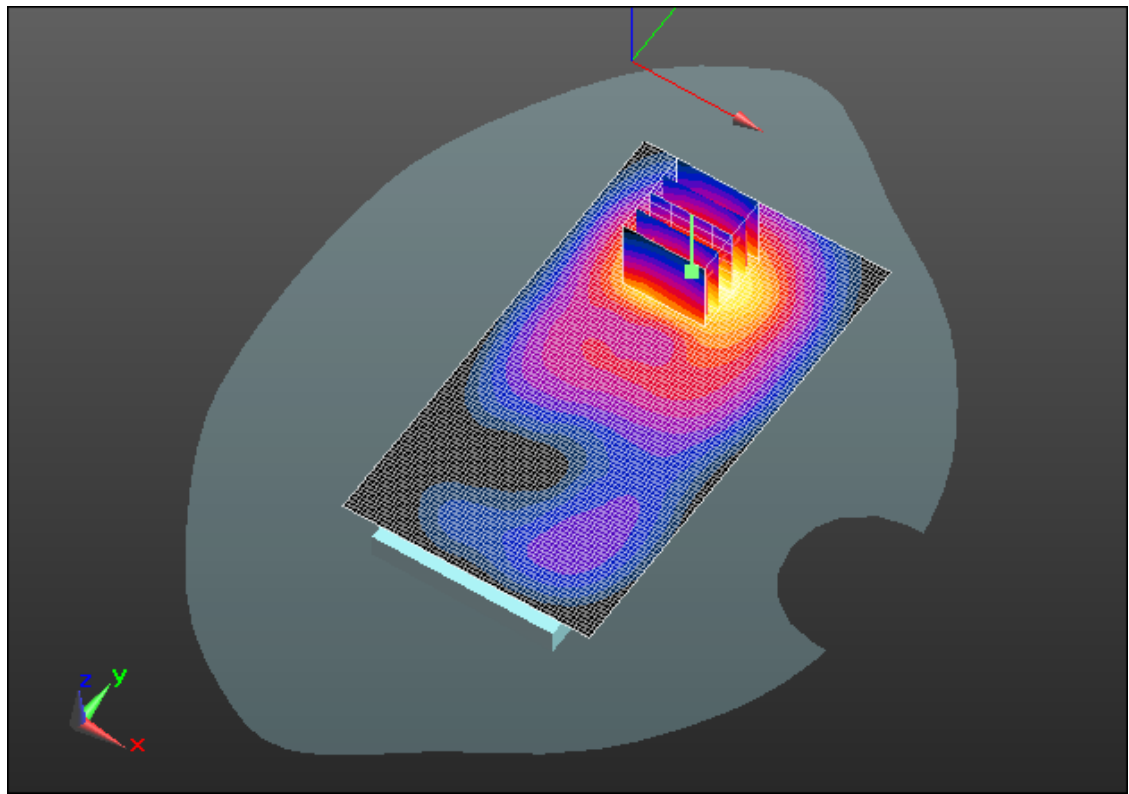
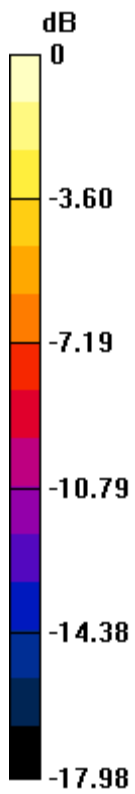
Author Data  
**Andrew Becker**

Dates of Test  
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Test Report No  
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**L6ARFH120LW**

IC ID  
**2503A-RFH120LW**



0 dB = 1.120mW/g = 0.98 dB mW/g

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Date/Time: 11/1/2012 8:47:08 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_GPRS\_1900\_high\_chan\_amb\_temp\_22.8\_li  
q\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: GPRS 1900; Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.56$  mho/m;  $\epsilon_r = 52.127$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 1.118 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 5.638 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.6150

**SAR(1 g) = 0.928 mW/g; SAR(10 g) = 0.493 mW/g**

Maximum value of SAR (measured) = 1.141 mW/g



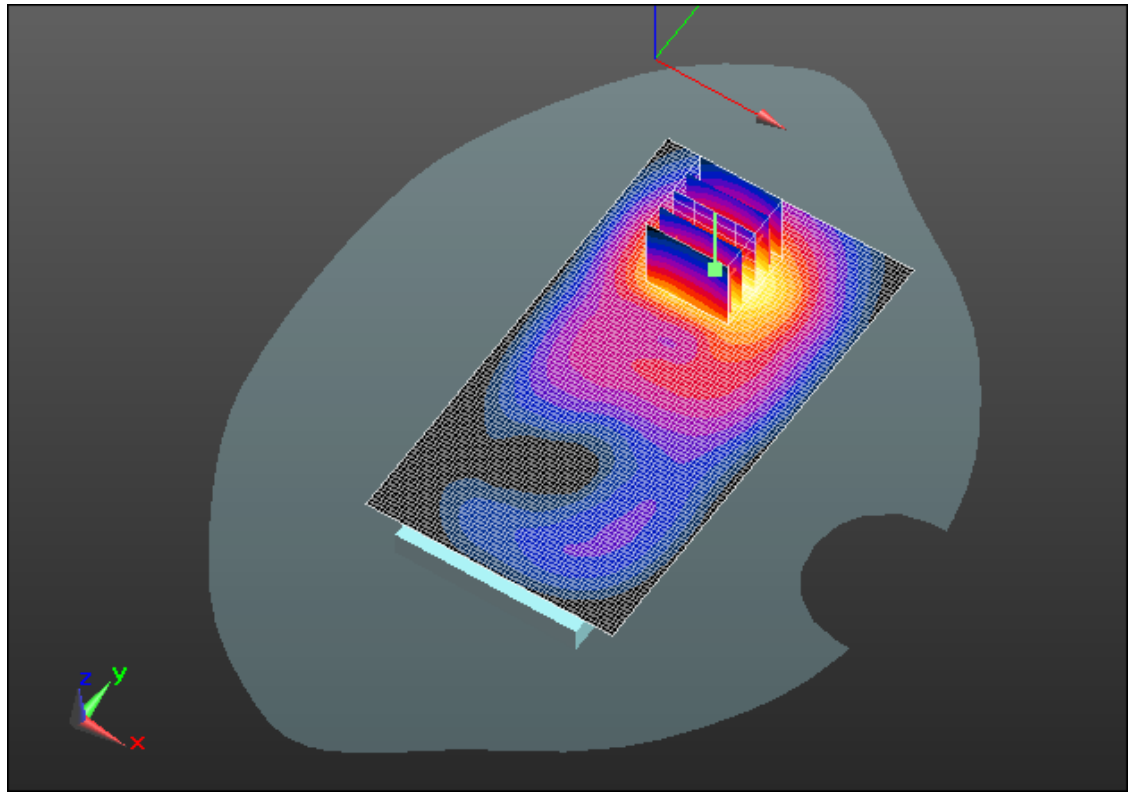
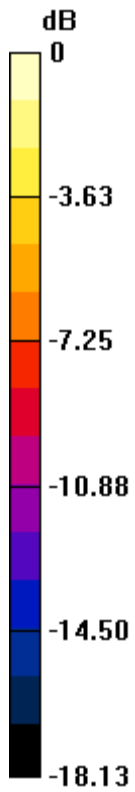
Author Data  
**Andrew Becker**

Dates of Test  
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Test Report No  
**RTS-6012-1211-22**

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**L6ARFH120LW**

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**2503A-RFH120LW**



0 dB = 1.140mW/g = 1.14 dB mW/g

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Date/Time: 11/1/2012 9:11:00 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Front\_GPRS\_1900\_mid\_chan\_amb\_temp\_23.3\_liq  
\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.525$  mho/m;  $\epsilon_r = 52.284$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x111x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.884 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 6.128 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.2720

**SAR(1 g) = 0.749 mW/g; SAR(10 g) = 0.398 mW/g**

Maximum value of SAR (measured) = 0.919 mW/g

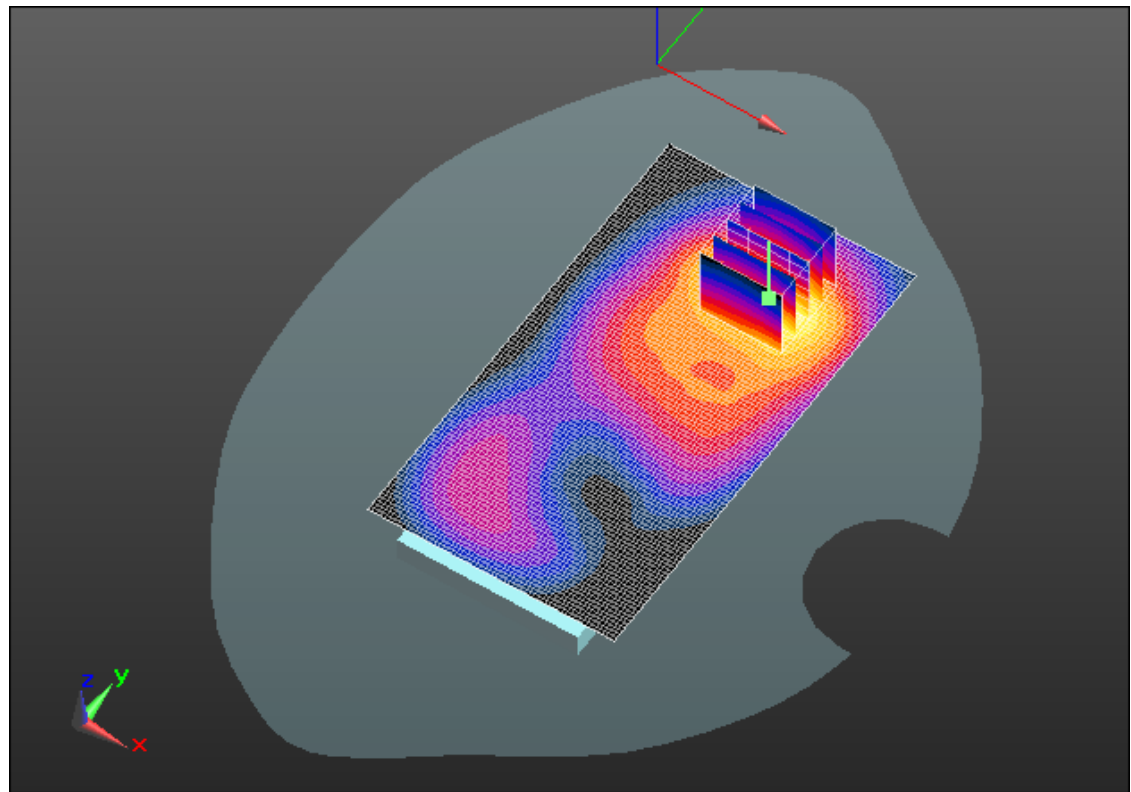
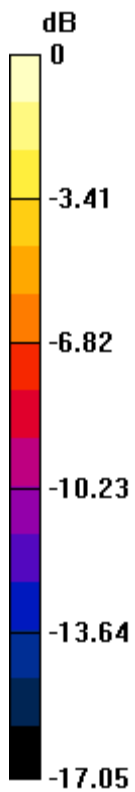
Author Data  
**Andrew Becker**

Dates of Test  
**Sept 18 – Nov 7, 2012**


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**RTS-6012-1211-22**

FCC ID:  
**L6ARFH120LW**

IC ID  
**2503A-RFH120LW**



0 dB = 0.920mW/g = -0.72 dB mW/g

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Date/Time: 11/1/2012 10:32:39 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Left\_GPRS1900\_mid\_chan\_amb\_temp\_23.3C\_liq  
\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 25B217A1**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.525$  mho/m;  $\epsilon_r = 52.284$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x111x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.112 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**

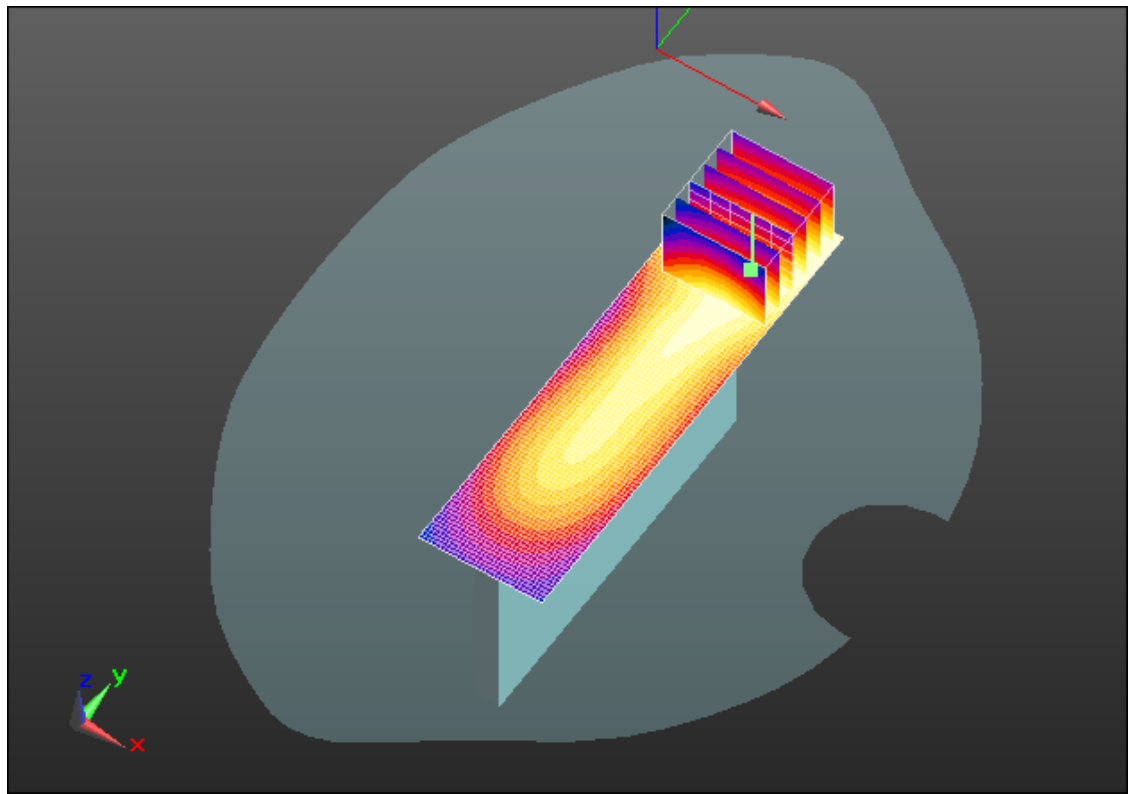
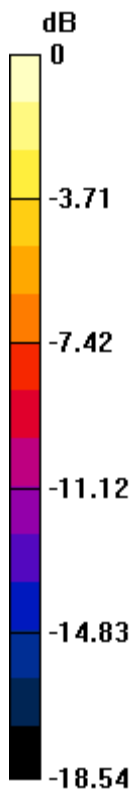
Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 7.049 V/m; Power Drift = 0.09 dB


Peak SAR (extrapolated) = 0.1520

**SAR(1 g) = 0.096 mW/g; SAR(10 g) = 0.060 mW/g**

Maximum value of SAR (measured) = 0.112 mW/g



0 dB = 0.110mW/g = -19.17 dB mW/g

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Date/Time: 11/1/2012 9:43:12 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Right\_GPRS1900\_mid\_chan\_amb\_temp\_23.3C\_li  
q\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 25B217A1**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.525$  mho/m;  $\epsilon_r = 52.284$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 0.078 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 6.178 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.0970

**SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.036 mW/g**

Maximum value of SAR (measured) = 0.073 mW/g

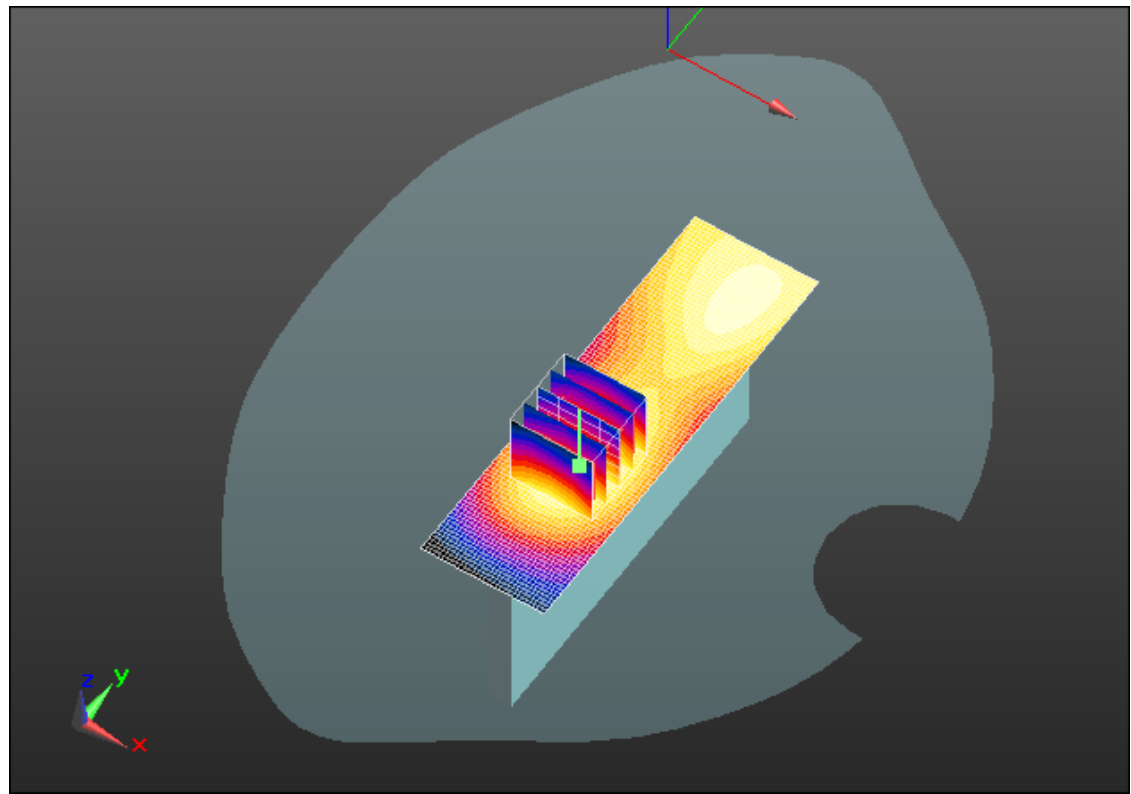
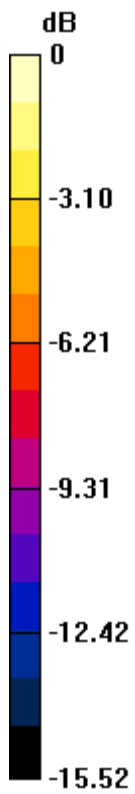
Author Data  
**Andrew Becker**

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Test Report No  
**RTS-6012-1211-22**

FCC ID:  
**L6ARFH120LW**

IC ID  
**2503A-RFH120LW**



0 dB = 0.070mW/g = -23.10 dB mW/g

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Date/Time: 11/1/2012 11:39:46 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Bottom\_GPRS1900\_low\_chan\_amb\_temp\_23.3C\_ liq\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: GPRS 1900; Frequency: 1850.2 MHz

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.491$  mho/m;  $\epsilon_r = 52.379$ ;  
 $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (41x61x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.222 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 24.199 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.5760

**SAR(1 g) = 0.913 mW/g; SAR(10 g) = 0.474 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.150 mW/g



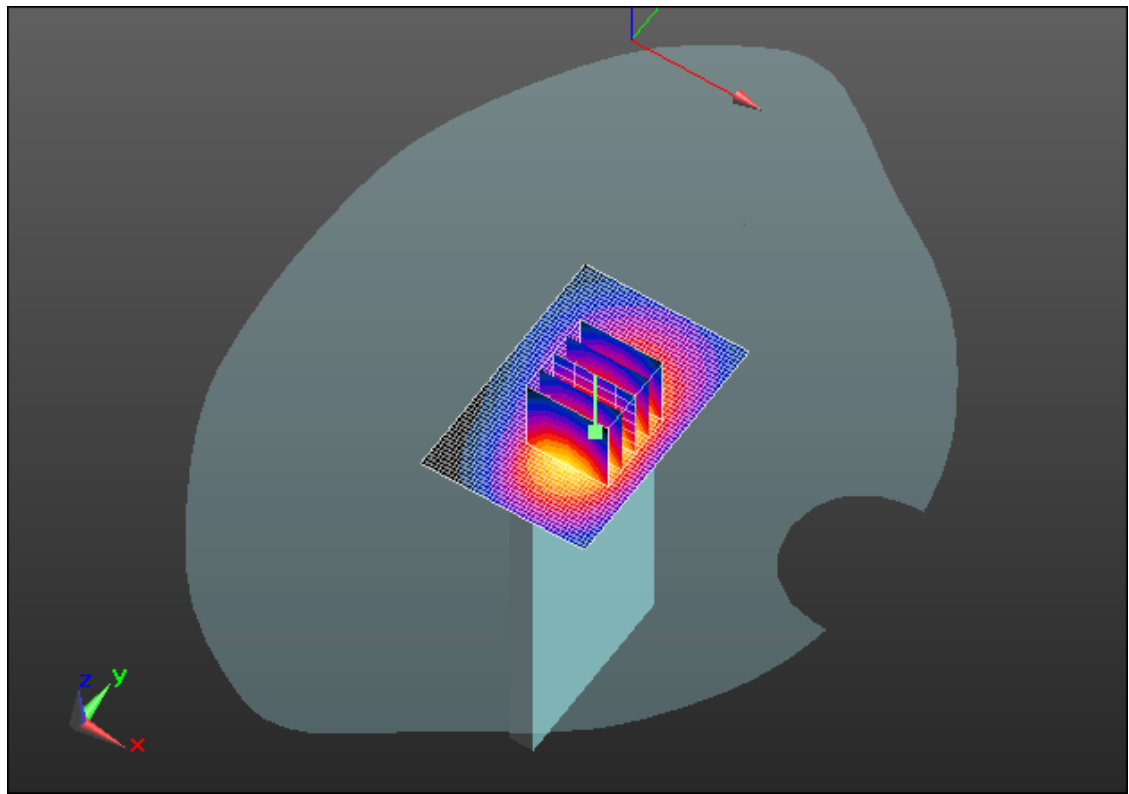
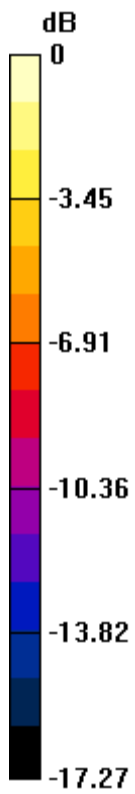
Author Data  
**Andrew Becker**

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Test Report No  
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**L6ARFH120LW**

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0 dB = 1.150mW/g = 1.21 dB mW/g

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Date/Time: 11/1/2012 11:24:31 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Bottom\_GPRS1900\_mid\_chan\_amb\_temp\_23.3C  
\_liq\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.525$  mho/m;  $\epsilon_r = 52.284$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (41x61x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 1.572 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 26.822 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.0380

**SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.594 mW/g**

Maximum value of SAR (measured) = 1.461 mW/g

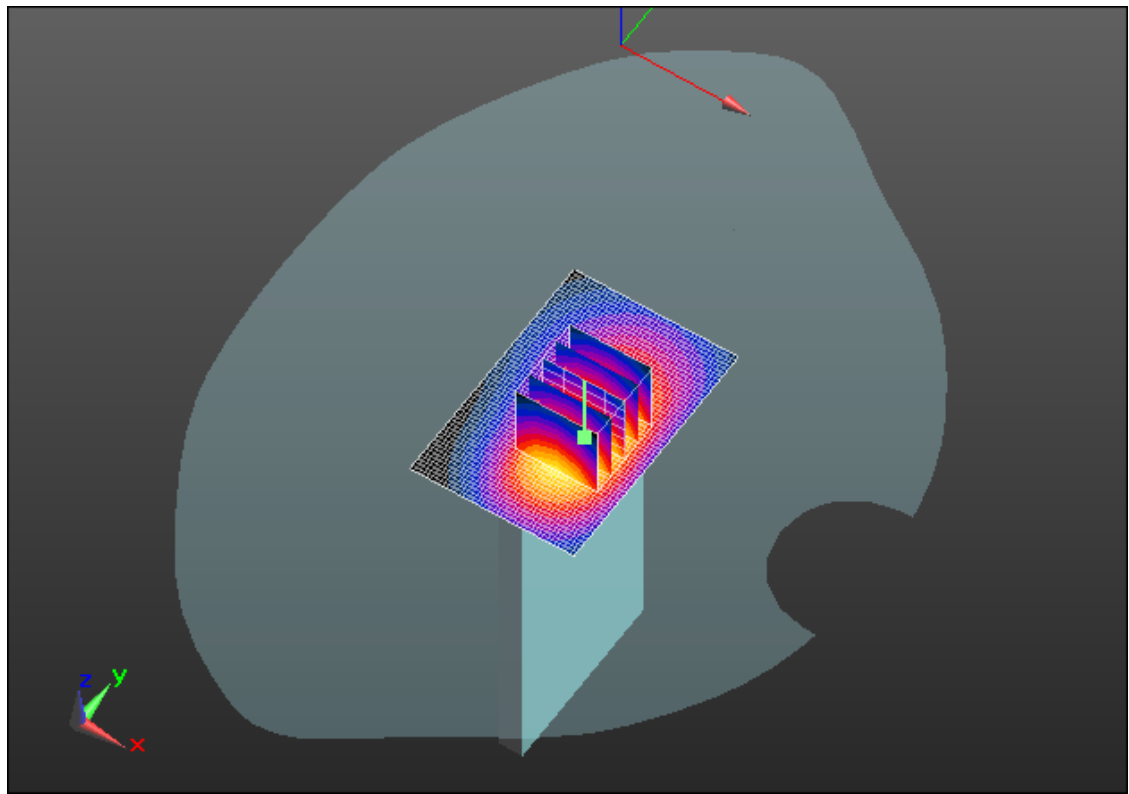
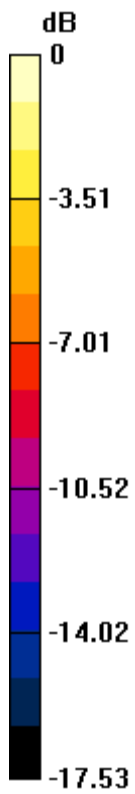
Author Data  
**Andrew Becker**

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**L6ARFH120LW**

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0 dB = 1.460mW/g = 3.29 dB mW/g

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Date/Time: 11/1/2012 11:52:25 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Bottom\_GPRS1900\_high\_chan\_amb\_temp\_23.3C  
\_liq\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: GPRS 1900; Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.56$  mho/m;  $\epsilon_r = 52.127$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (41x61x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 1.684 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

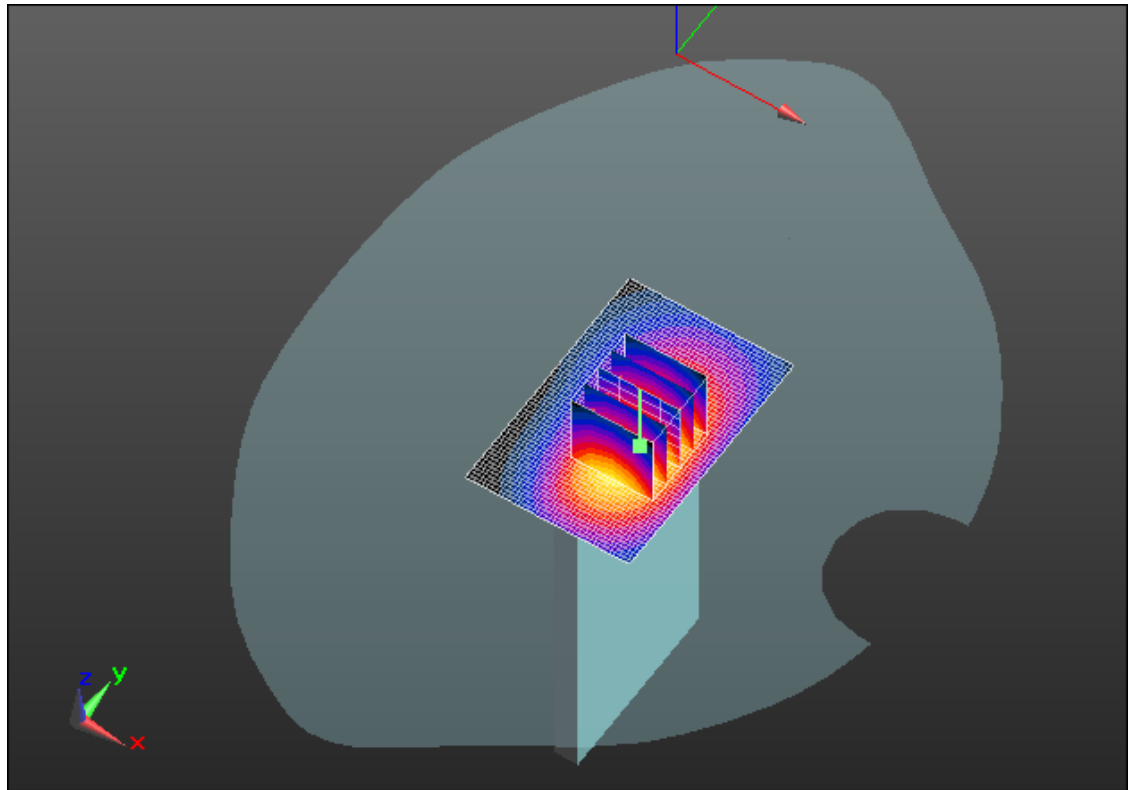
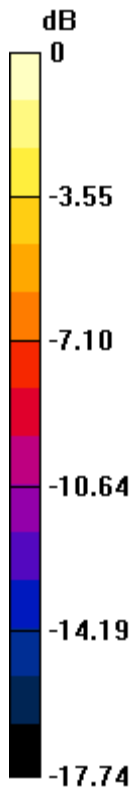
Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 27.004 V/m; Power Drift = -0.03 dB


Peak SAR (extrapolated) = 2.1680

**SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.618 mW/g**

Maximum value of SAR (measured) = 1.550 mW/g



0 dB = 1.550mW/g = 3.81 dB mW/g

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Date/Time: 11/2/2012 12:08:38 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Bottom\_GPRS1900\_3-  
slots\_high\_chan\_amb\_temp\_23.3C\_liq\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: GPRS 1900 (3-slots); Frequency: 1909.8 MHz  
Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.56$  mho/m;  $\epsilon_r = 52.127$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (41x61x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (interpolated) = 1.737 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
Reference Value = 27.444 V/m; Power Drift = 0.0062 dB  
Peak SAR (extrapolated) = 2.2250  
**SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.646 mW/g**  
Maximum value of SAR (measured) = 1.584 mW/g

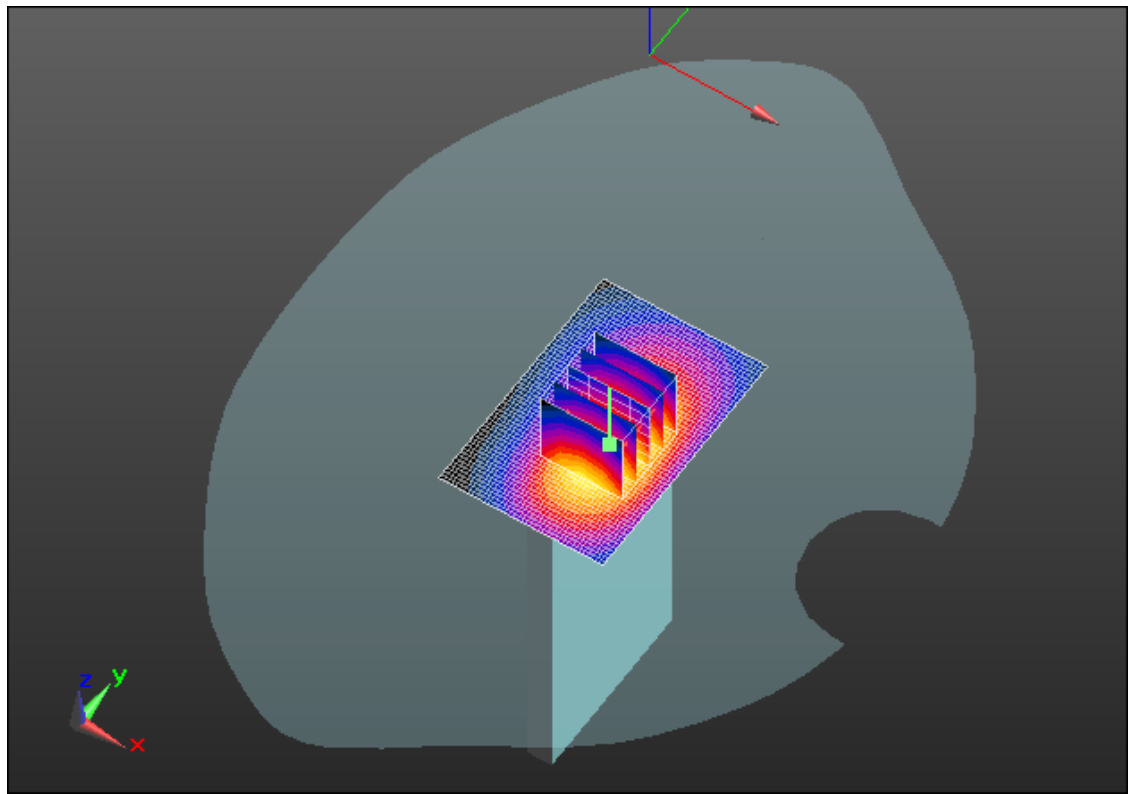
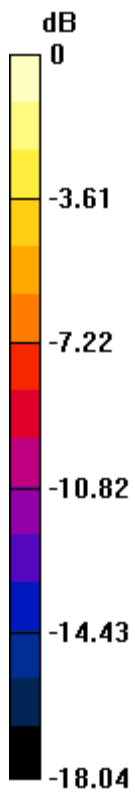
Author Data  
**Andrew Becker**

Dates of Test  
**Sept 18 – Nov 7, 2012**


Test Report No  
**RTS-6012-1211-22**

FCC ID:  
**L6ARFH120LW**

IC ID  
**2503A-RFH120LW**



0 dB = 1.580mW/g = 3.97 dB mW/g

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Date/Time: 11/2/2012 1:13:12 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Bottom\_Headset\_GPRS1900\_3-slots\_high\_chan\_amb\_temp\_23.3C\_liq\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: GPRS 1900 (3-slots); Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.56$  mho/m;  $\epsilon_r = 52.127$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (41x61x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (interpolated) = 1.557 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

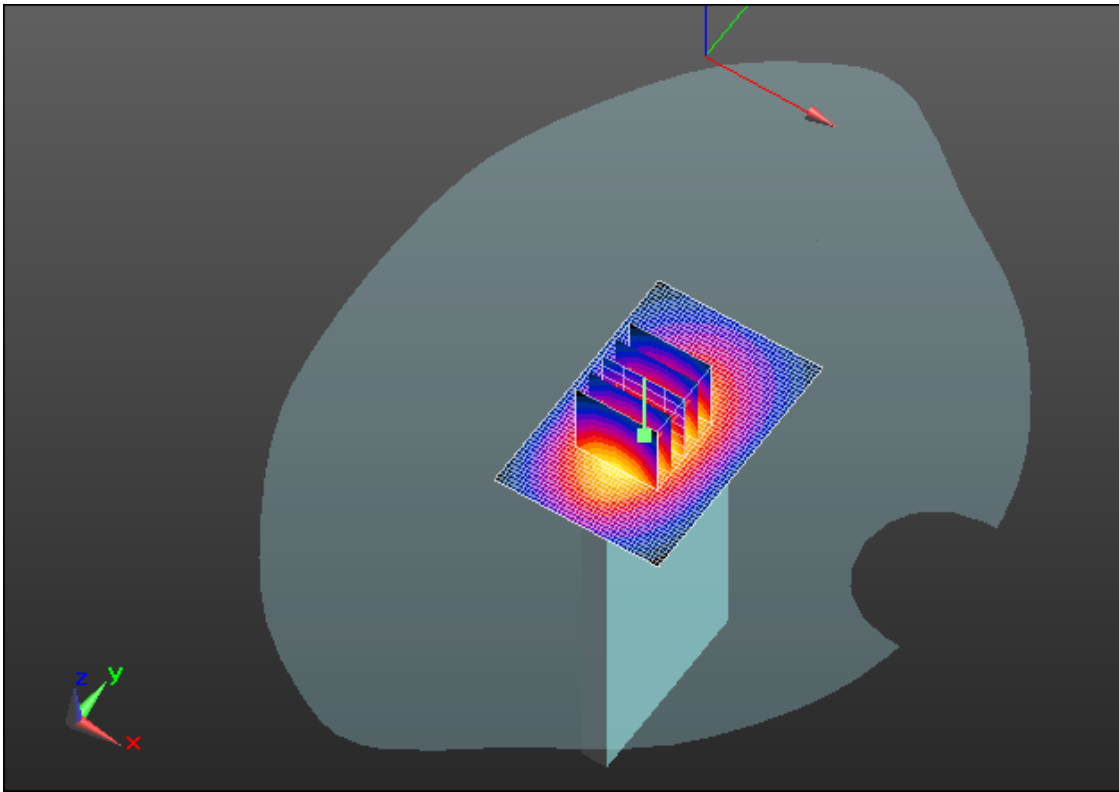
Reference Value = 31.469 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 2.0870


**SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.614 mW/g**

Maximum value of SAR (measured) = 1.492 mW/g





0 dB = 1.490mW/g = 3.46 dB mW/g

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Date/Time: 11/2/2012 12:25:33 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Bottom\_GPRS1900\_4-  
slots\_high\_chan\_amb\_temp\_23.3C\_liq\_temp\_21.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: GPRS 1900 (4-slots); Frequency: 1909.8 MHz  
Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.56$  mho/m;  $\epsilon_r = 52.127$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (41x61x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (interpolated) = 1.681 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
Reference Value = 26.755 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 2.0970  
**SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.615 mW/g**  
Maximum value of SAR (measured) = 1.510 mW/g

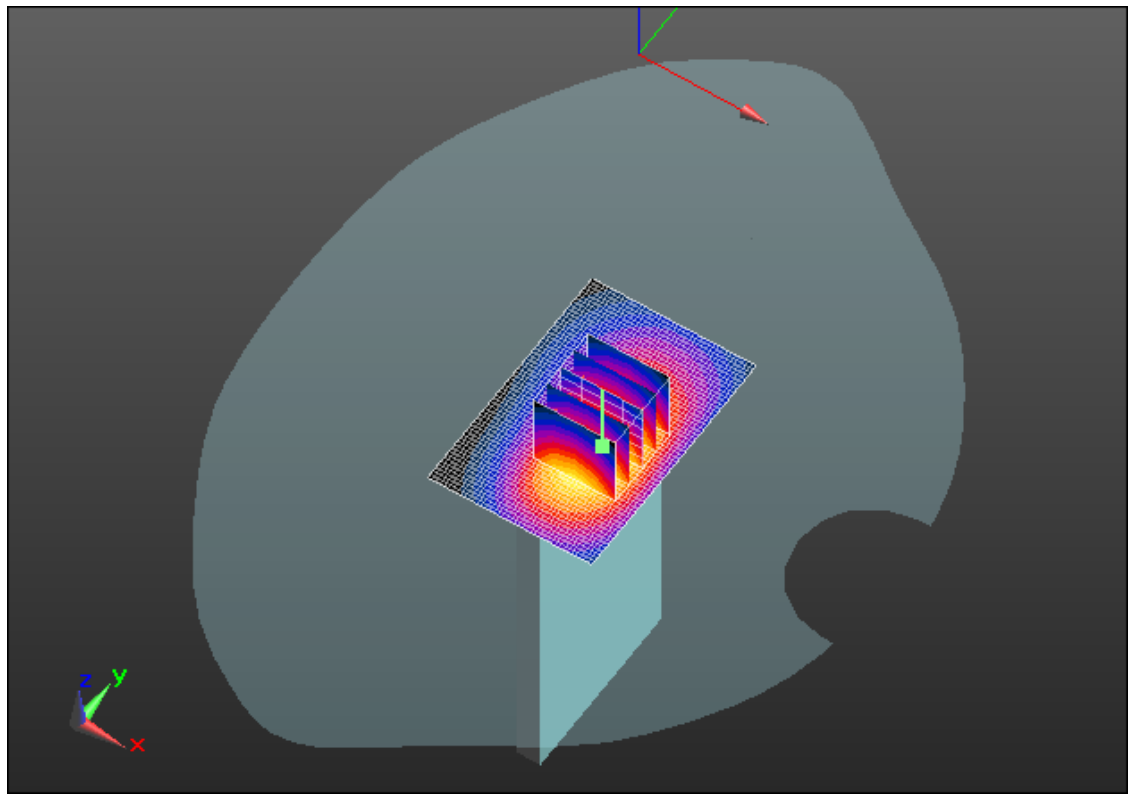
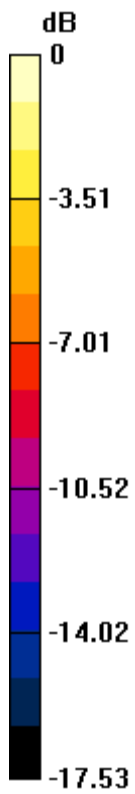
Author Data  
**Andrew Becker**

Dates of Test  
**Sept 18 – Nov 7, 2012**


Test Report No  
**RTS-6012-1211-22**

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**L6ARFH120LW**

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**2503A-RFH120LW**



0 dB = 1.510mW/g = 3.58 dB mW/g

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Date/Time: 11/6/2012 1:12:46 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Back\_802.11b\_high\_chan\_amb\_temp\_23.1\_liq\_temp\_21.7C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 52.197$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.383 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 3.252 V/m; Power Drift = 0.99 dB

Peak SAR (extrapolated) = 0.6080

**SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.137 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.414 mW/g

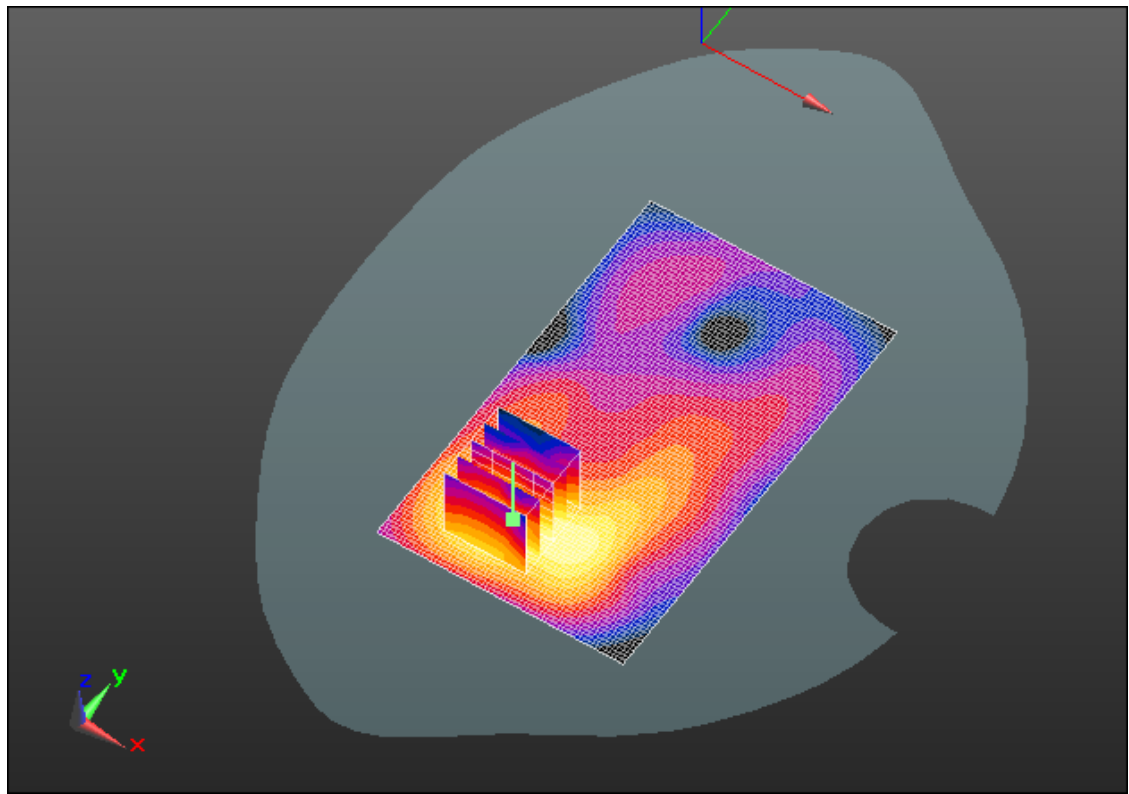
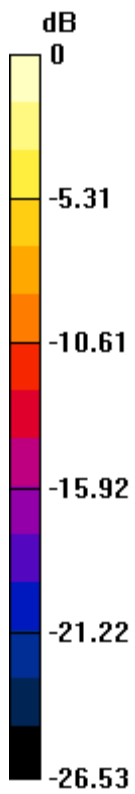
Author Data  
**Andrew Becker**

Dates of Test  
**Sept 18 – Nov 7, 2012**


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**RTS-6012-1211-22**

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**2503A-RFH120LW**



0 dB = 0.410mW/g = -7.74 dB mW/g

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Date/Time: 11/6/2012 10:28:52 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Front\_802.11b\_high\_chan\_amb\_temp\_23.1\_liq\_tem  
mp\_21.7C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 52.197$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.210 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 3.063 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.3620

**SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.078 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.208 mW/g

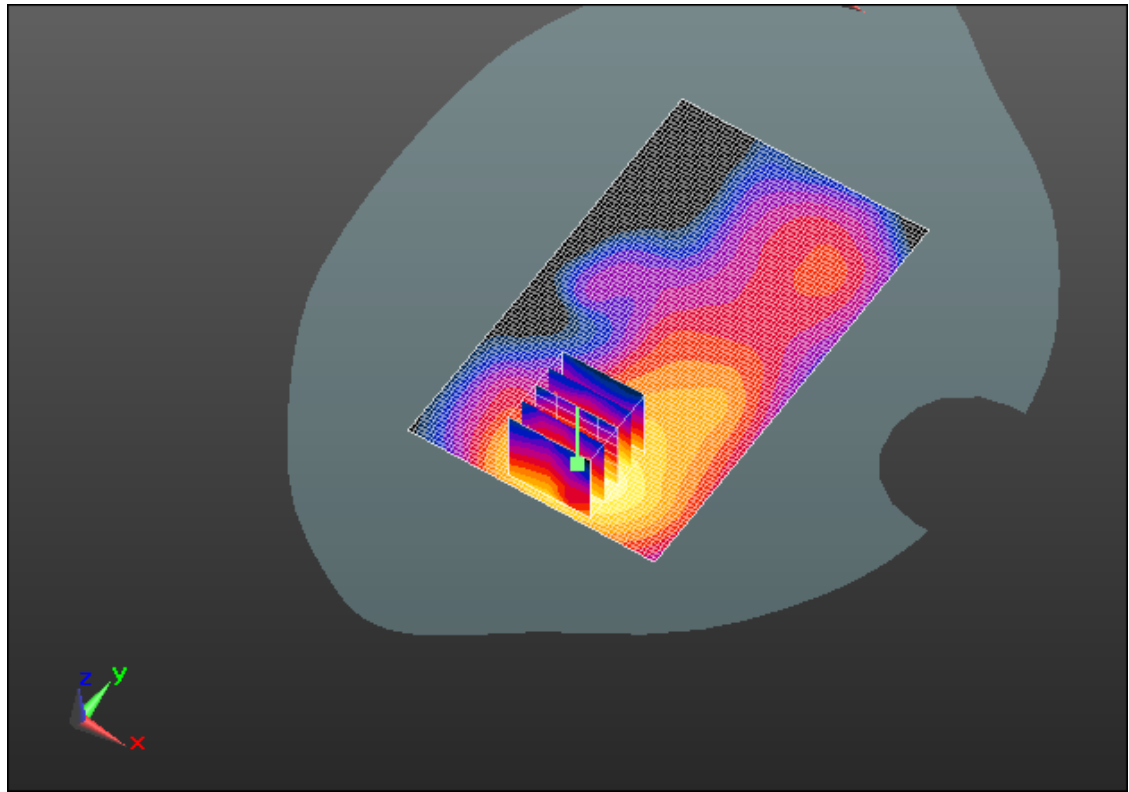
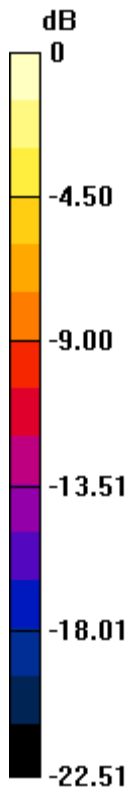
Author Data  
**Andrew Becker**

Dates of Test  
**Sept 18 – Nov 7, 2012**


Test Report No  
**RTS-6012-1211-22**

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**L6ARFH120LW**

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**2503A-RFH120LW**



0 dB = 0.210mW/g = -13.56 dB mW/g

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Date/Time: 11/6/2012 11:54:35 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Left\_802.11b\_high\_chan\_amb\_temp\_23.5\_liq\_tem  
p\_22.8C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 25B217A1**

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 52.197$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.048 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.326 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0740

**SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.020 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.047 mW/g



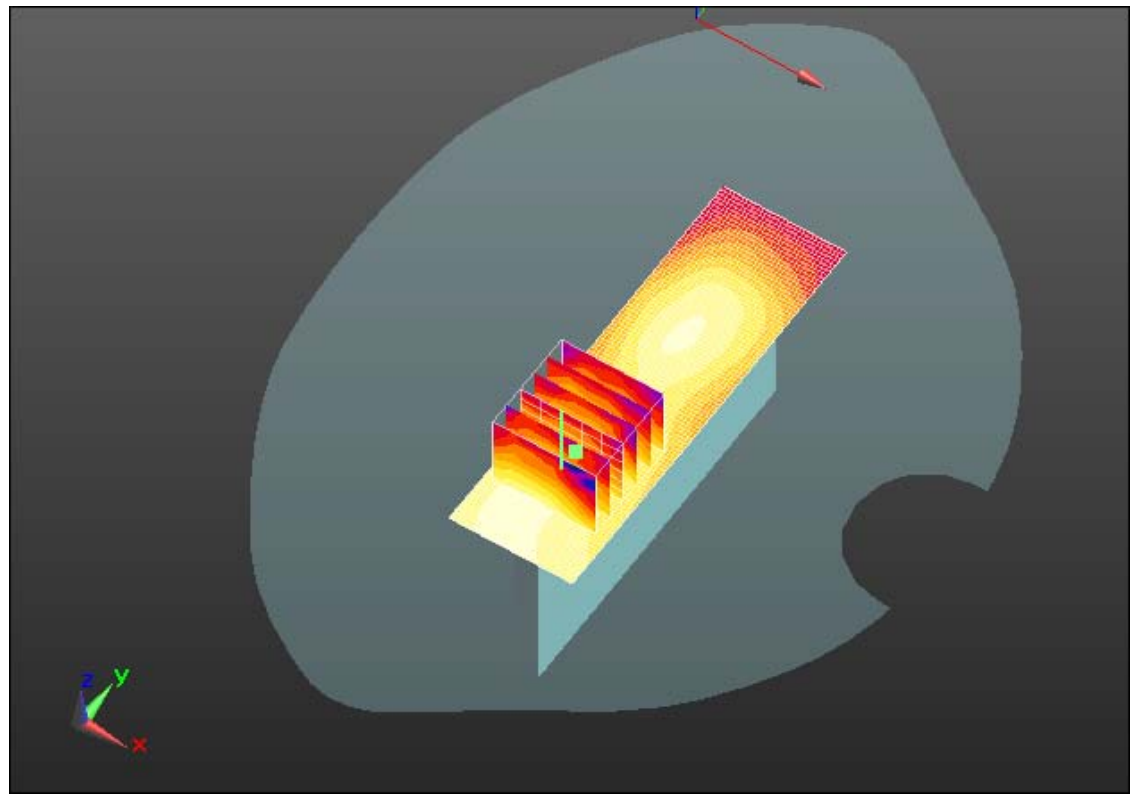
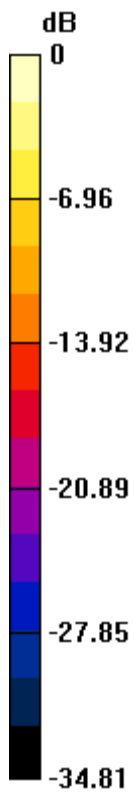
Author Data  
**Andrew Becker**

Dates of Test  
**Sept 18 – Nov 7, 2012**


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**RTS-6012-1211-22**

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**L6ARFH120LW**

IC ID  
**2503A-RFH120LW**



0 dB = 0.050mW/g = -26.02 dB mW/g

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Date/Time: 11/6/2012 12:12:18 PM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Right\_802.11b\_high\_chan\_amb\_temp\_23.5\_liq\_tem  
mp\_22.8C**

**DUT: BlackBerry Smartphone; Type: Sample; Serial: 25B217A1**

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 52.197$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (31x101x1):** Measurement grid:  
 $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.00583 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm

Reference Value = 1.389 V/m; Power Drift = 0.32 dB

Peak SAR (extrapolated) = 0.009970

**SAR(1 g) = 0.00245 mW/g; SAR(10 g) = 0.000698 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.00474 mW/g

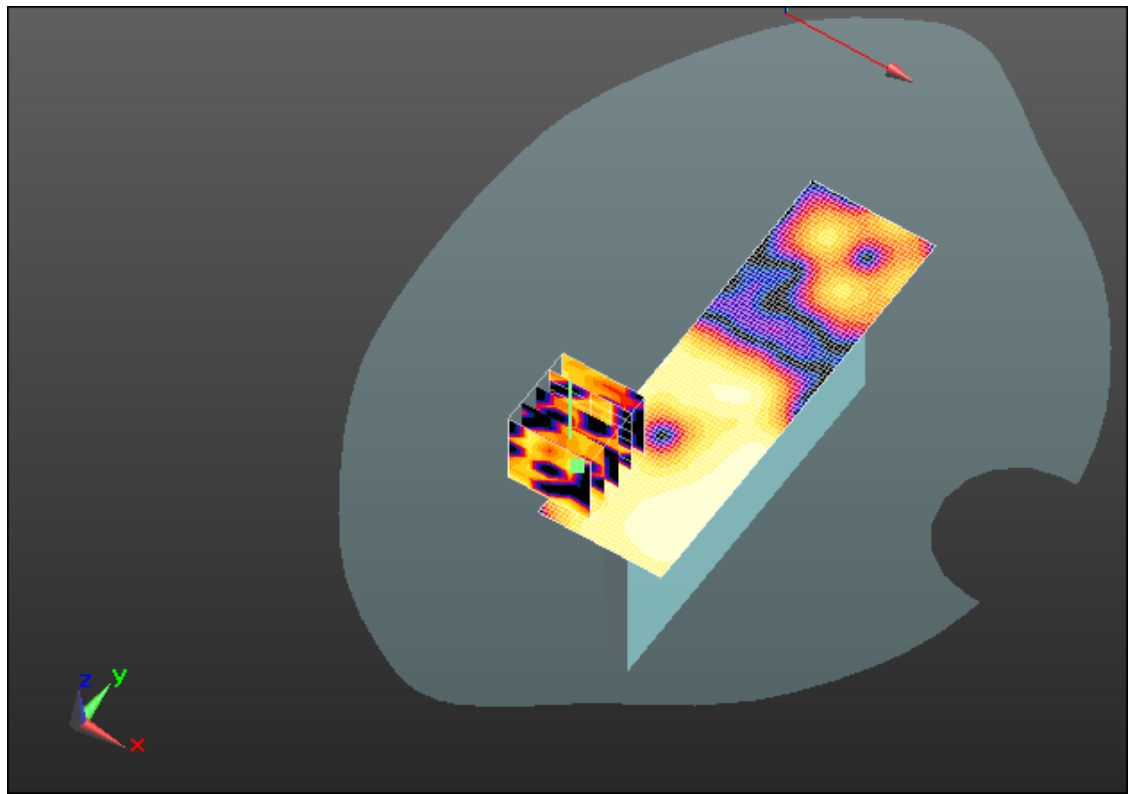
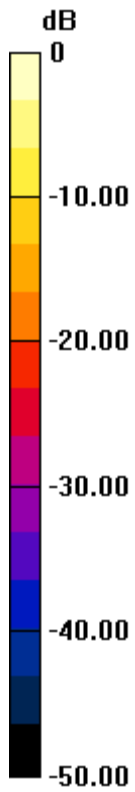
Author Data  
**Andrew Becker**

Dates of Test  
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0 dB = 0.0047mW/g = -46.56 dB mW/g

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Date/Time: 11/6/2012 11:33:12 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Top\_802.11b\_high\_chan\_amb\_temp\_23.5\_liq\_tem  
p\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 52.197$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (41x61x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.403 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.536 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.4500

**SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.124 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.322 mW/g

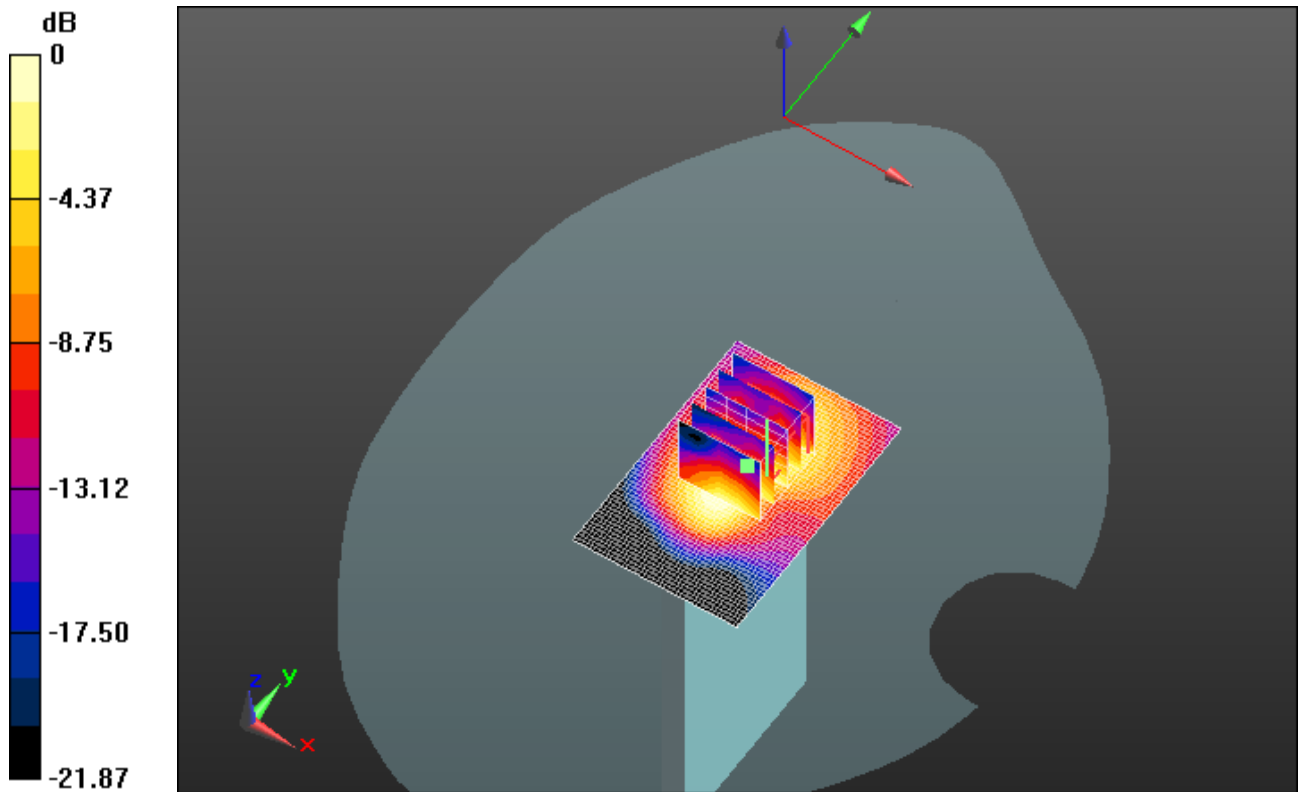
Author Data  
**Andrew Becker**

Dates of Test  
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0 dB = 0.320mW/g = -9.90 dB mW/g

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Date/Time: 11/6/2012 9:55:51 AM

Test Laboratory: RIM Testing Services

**MHS\_10mm\_Spacer\_Headset\_Back\_802.11b\_high\_chan\_amb\_temp\_2  
3.5\_liq\_temp\_21.7C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25B217A1**

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 52.197$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.3, 4.3, 4.3); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

**Configuration/Touch position -/Area Scan (61x101x1):** Measurement grid:  
dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.319 mW/g

**Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.922 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.4230

**SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.118 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.296 mW/g

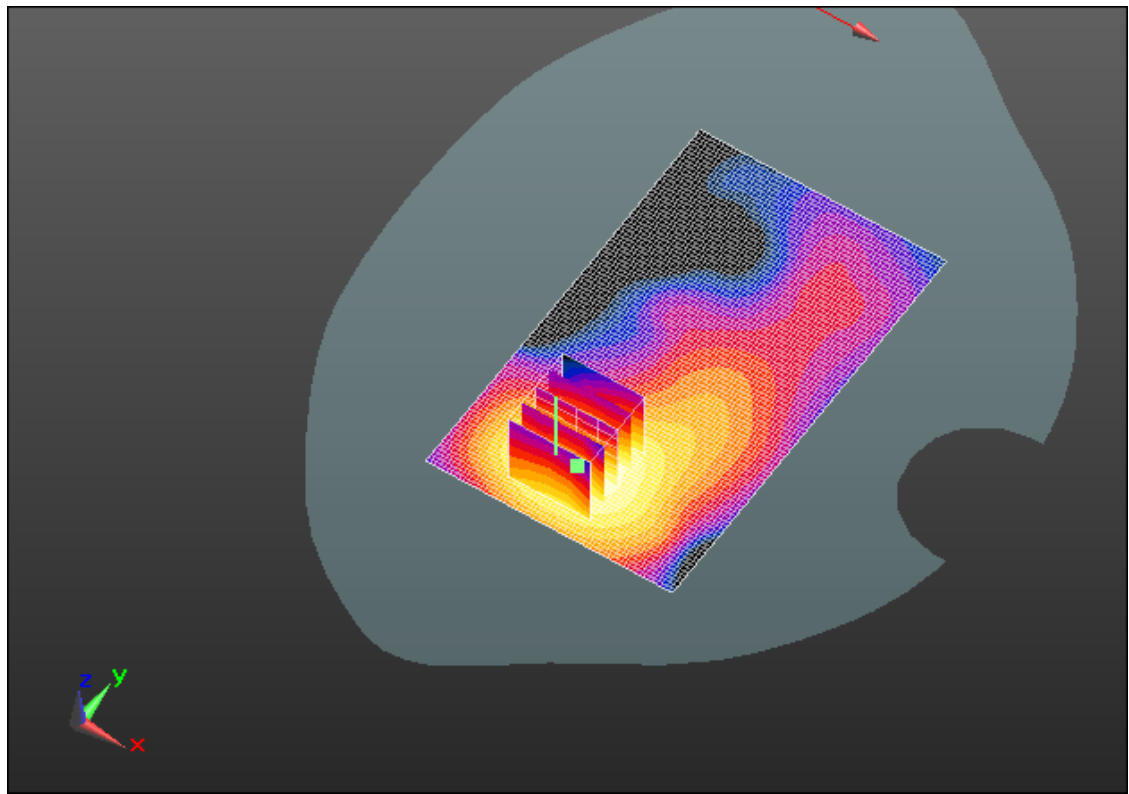
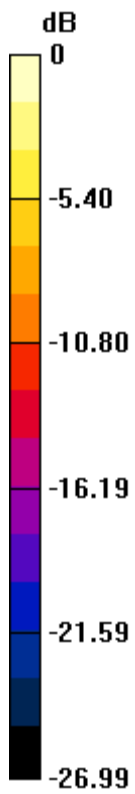
Author Data  
**Andrew Becker**

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0 dB = 0.300mW/g = -10.46 dB mW/g

### Z axis plot for the worst case body configuration

