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**APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION**

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Test Laboratory: RIM Testing Services

**RightHandSide\_EDGE850\_low\_chan\_amb\_temp\_22.9\_liq\_temp\_22.1C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: EDGE 850 (2slots); Frequency: 824.2 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.842$  mho/m;  $\epsilon_r = 41.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section


DASY4 Configuration:

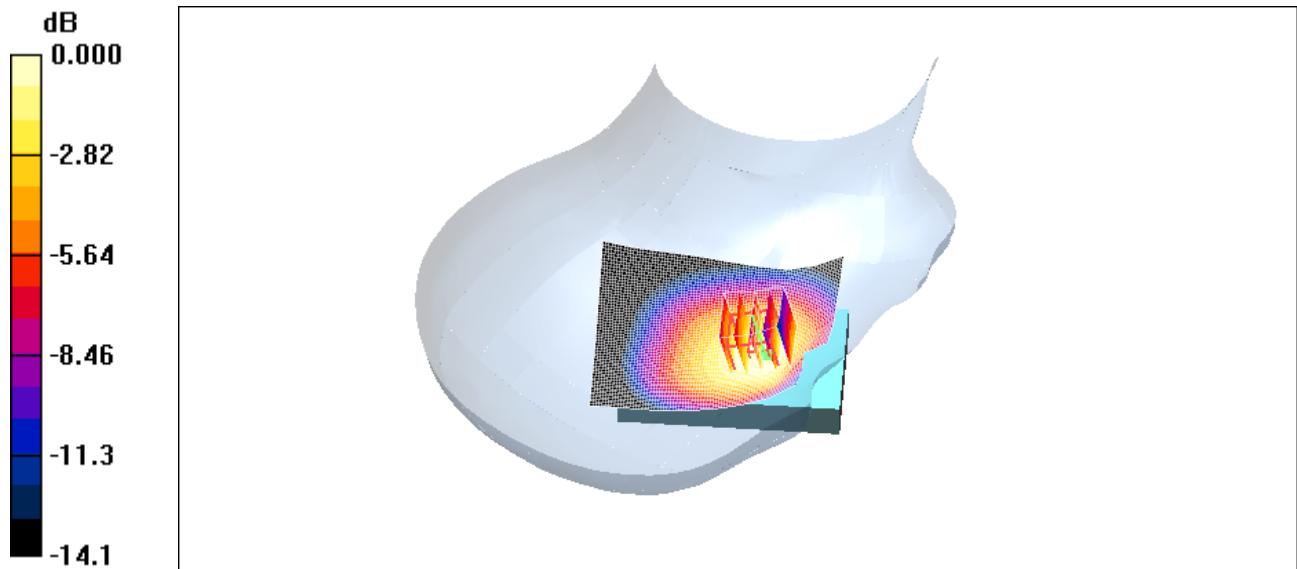
- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.03 mW/g


**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 9.79 V/m; Power Drift = 0.034 dB  
Peak SAR (extrapolated) = 1.22 W/kg  
**SAR(1 g) = 0.938 mW/g; SAR(10 g) = 0.669 mW/g**

Maximum value of SAR (measured) = 0.969 mW/g

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0 dB = 0.969mW/g

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Test Laboratory: RIM Testing Services

**RightHandSide\_EDGE850\_mid\_chan\_amb\_temp\_23.3\_liq\_temp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.861$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.11 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 10.6 V/m; Power Drift = 0.025 dB

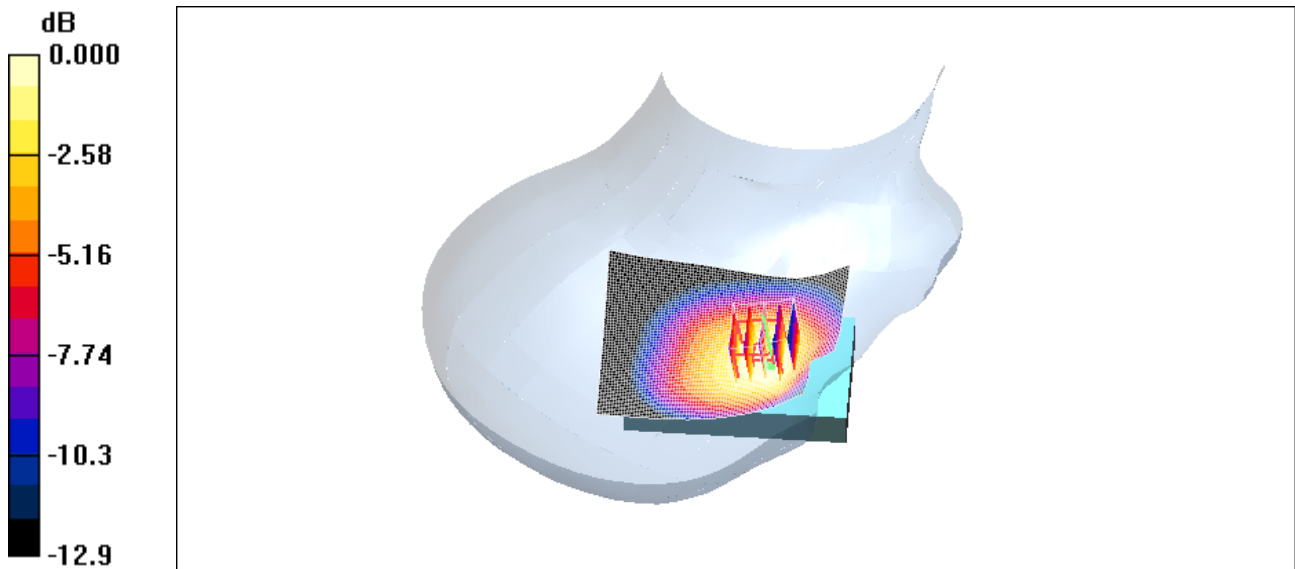
Peak SAR (extrapolated) = 1.29 W/kg

**SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.724 mW/g**


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

Maximum value of SAR (measured) = 1.06 mW/g

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0 dB = 1.06mW/g

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Test Laboratory: RIM Testing Services

**RightHandSide\_EDGE850\_high\_chan\_amb\_temp\_22.8\_liq\_temp\_22.0C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.886$  mho/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.29 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 11.2 V/m; Power Drift = 0.066 dB

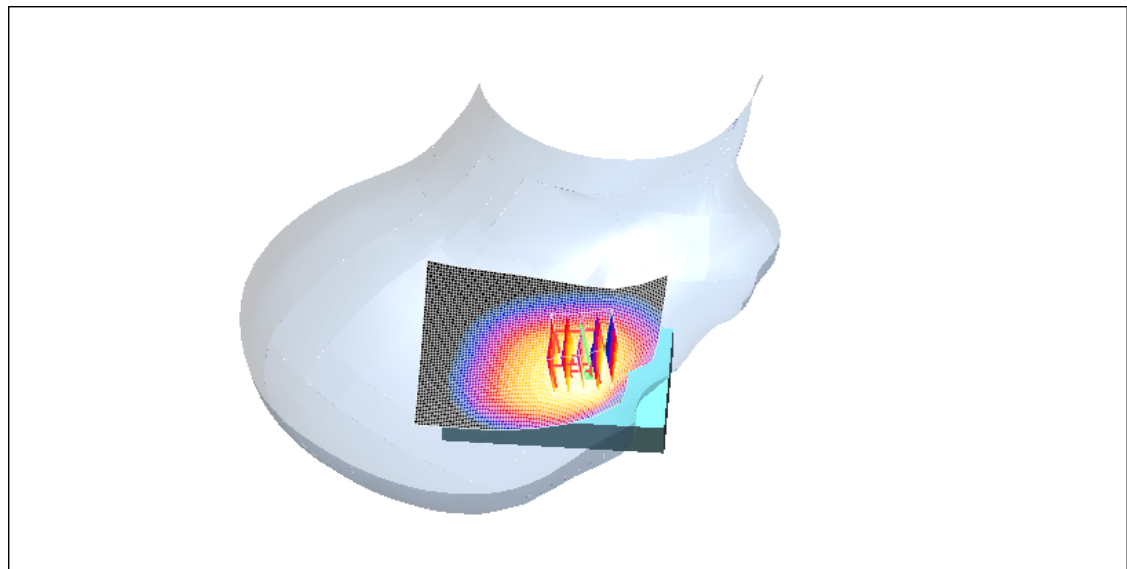
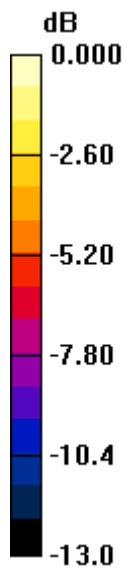
Peak SAR (extrapolated) = 1.54 W/kg

**SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.846 mW/g**


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

Maximum value of SAR (measured) = 1.23 mW/g

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0 dB = 1.23mW/g

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Test Laboratory: RIM Testing Services

## RightHandSide\_Tilt\_EDGE850\_high\_chan\_amb\_temp\_23.0\_liq\_temp\_2 2.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.886$  mho/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.758 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.2 V/m; Power Drift = 0.054 dB


Peak SAR (extrapolated) = 0.878 W/kg

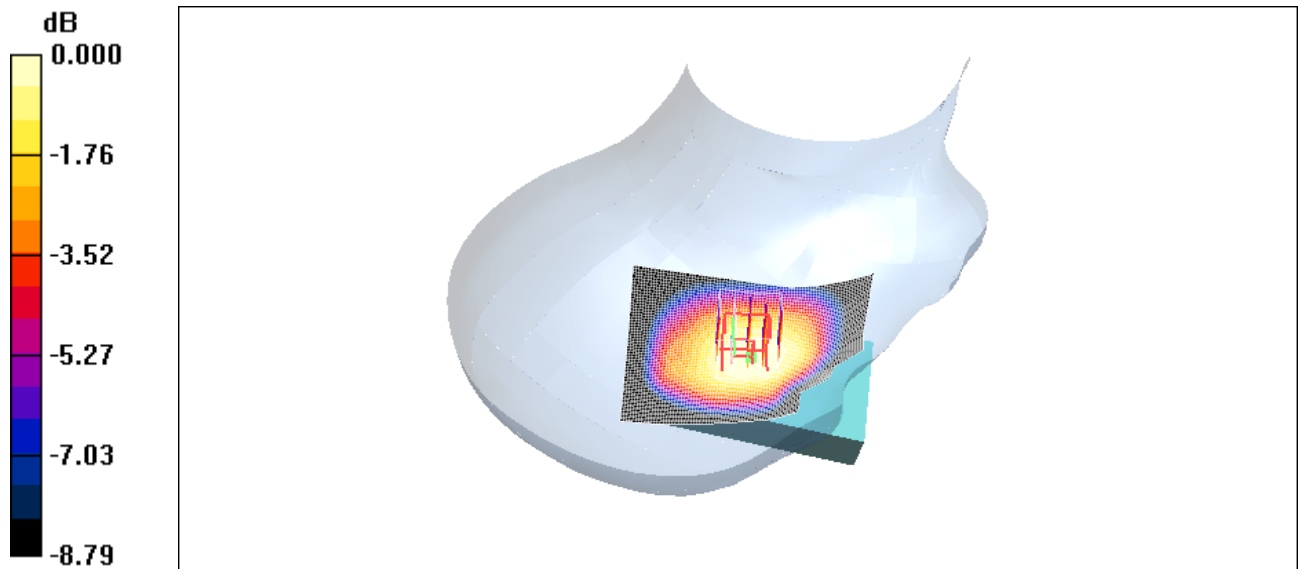
**SAR(1 g) = 0.714 mW/g; SAR(10 g) = 0.541 mW/g**

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


Maximum value of SAR (measured) = 0.744 mW/g



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0 dB = 0.744mW/g

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Test Laboratory: RIM Testing Services

## RightHandSide\_GSM850\_high\_chan\_amb\_temp\_22.9\_liq\_temp\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.886$  mho/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.04 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 9.67 V/m; Power Drift = 0.077 dB

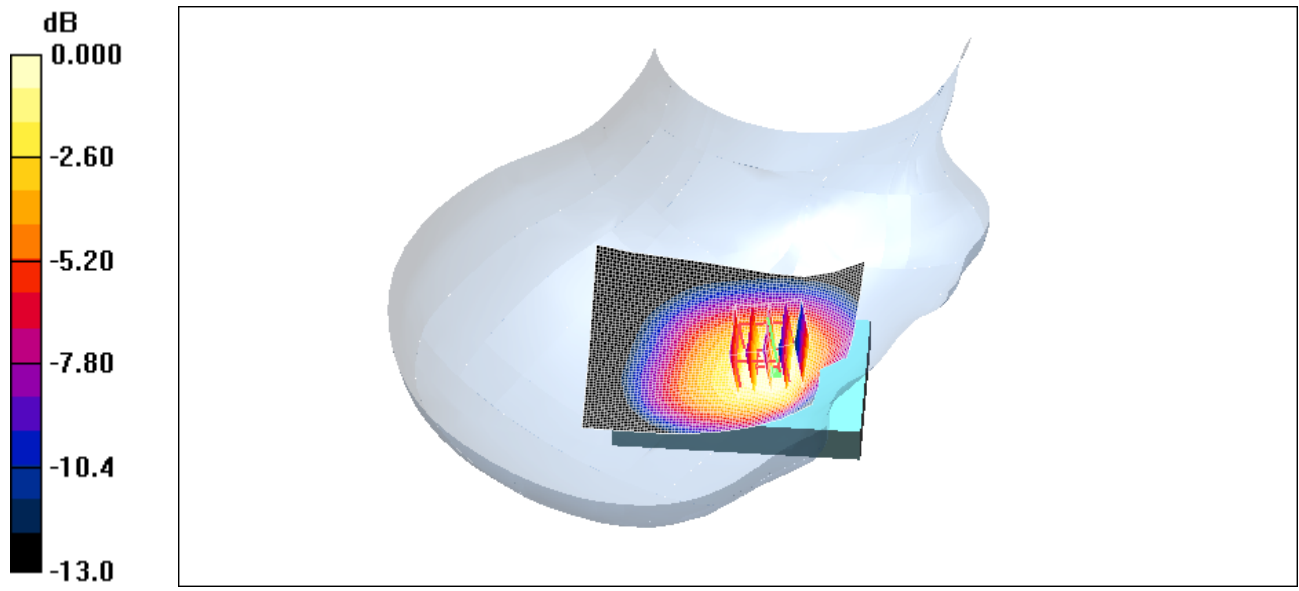
Peak SAR (extrapolated) = 1.24 W/kg

**SAR(1 g) = 0.954 mW/g; SAR(10 g) = 0.680 mW/g**


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

Maximum value of SAR (measured) = 0.996 mW/g

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0 dB = 0.996mW/g

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Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE850\_low\_chan\_amb\_temp\_23.1\_liq\_temp\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**


Communication System: EDGE 850 (2slots); Frequency: 824.2 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.842$  mho/m;  $\epsilon_r = 41.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

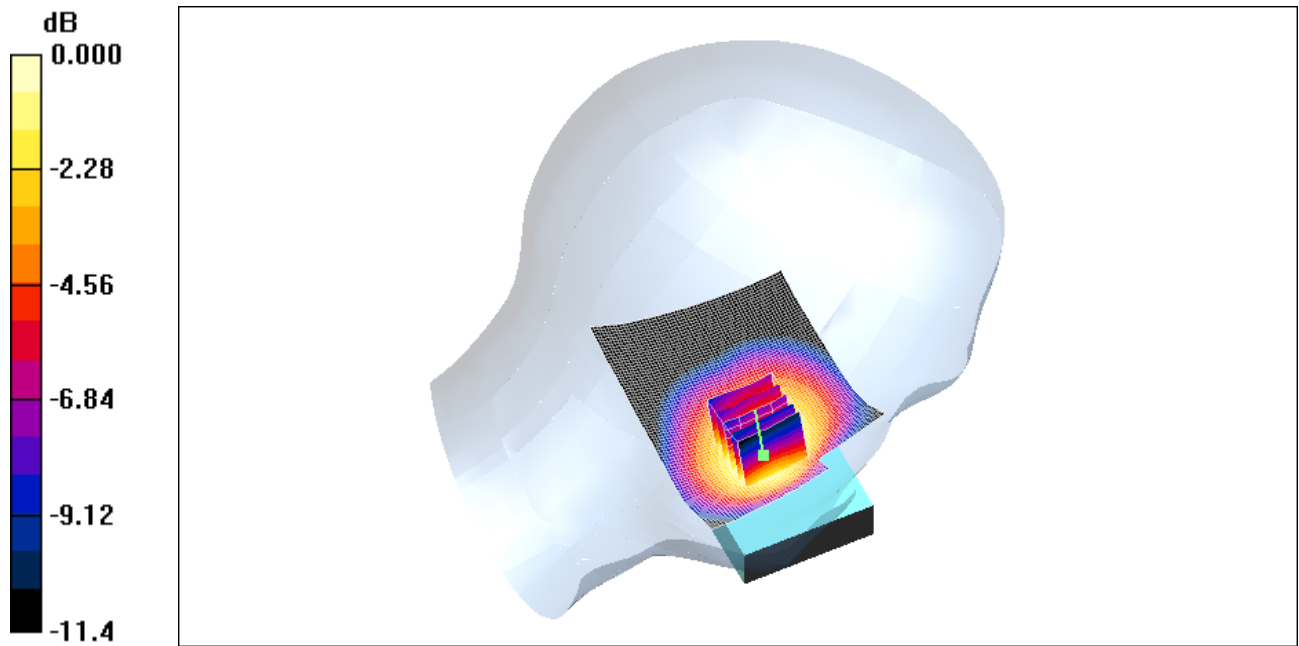
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.905 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 8.00 V/m; Power Drift = -0.188 dB  
Peak SAR (extrapolated) = 1.16 W/kg  
**SAR(1 g) = 0.850 mW/g; SAR(10 g) = 0.603 mW/g**  
Maximum value of SAR (measured) = 0.902 mW/g

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0 dB = 0.902mW/g

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Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE850\_mid\_chan\_amb\_temp\_22.9\_liq\_temp\_22.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.861$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.01 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 8.99 V/m; Power Drift = 0.067 dB

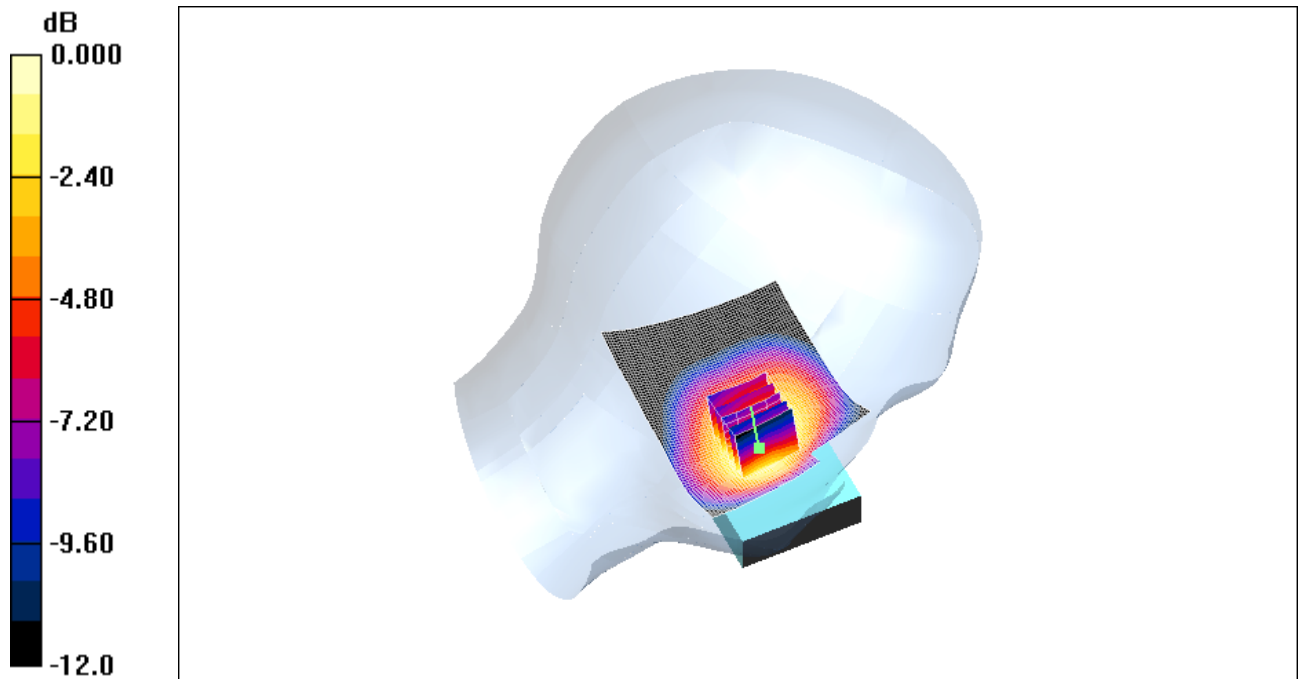
Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.958 mW/g; SAR(10 g) = 0.669 mW/g**


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

Maximum value of SAR (measured) = 1.03 mW/g

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0 dB = 1.03mW/g

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Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE850\_high\_chan\_amb\_temp\_23.0\_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8 \text{ MHz}$ ;  $\sigma = 0.886 \text{ mho/m}$ ;  $\epsilon_r = 40$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.13 mW/g

**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 = 8.74 V/m; Power Drift = -0.051 dB


Peak SAR (extrapolated) = 1.44 W/kg

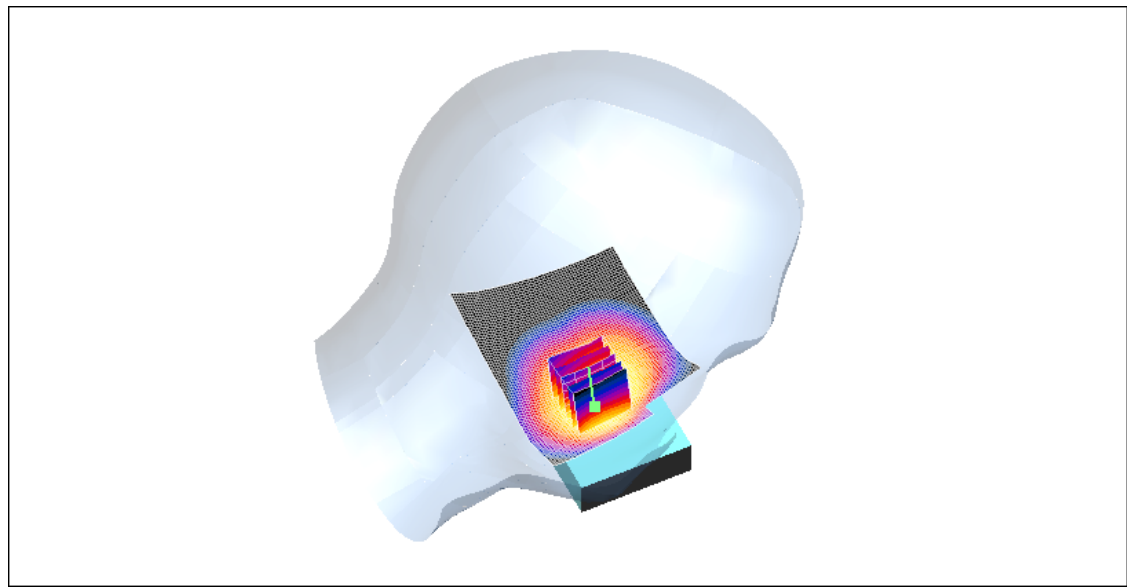
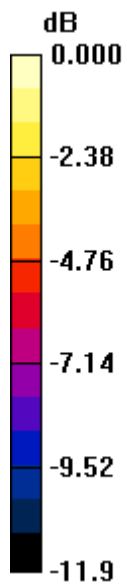
**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.745 mW/g**

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


Maximum value of SAR (measured) = 1.11 mW/g



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0 dB = 1.11mW/g

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Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_EDGE850\_high\_chan\_amb\_temp\_23.2\_liq\_temp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.886$  mho/m;  $\epsilon_r = 40$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.710 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 15.8 V/m; Power Drift = -0.056 dB

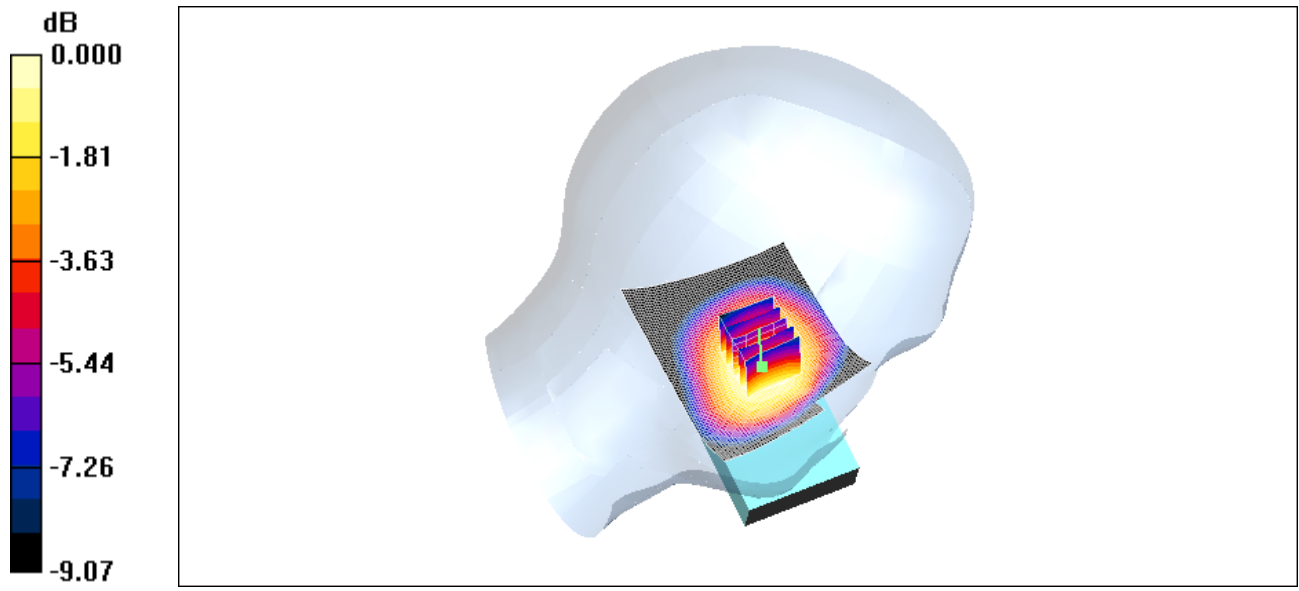
Peak SAR (extrapolated) = 0.821 W/kg

**SAR(1 g) = 0.663 mW/g; SAR(10 g) = 0.504 mW/g**


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

Maximum value of SAR (measured) = 0.691 mW/g

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0 dB = 0.691mW/g

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Date/Time: 6/22/2010 10:02:27 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_UMTS\_band\_V\_low\_chan\_amb\_temp\_23.0\_liq\_temp\_2 2.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.844$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.02 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 10.0 V/m; Power Drift = 0.092 dB

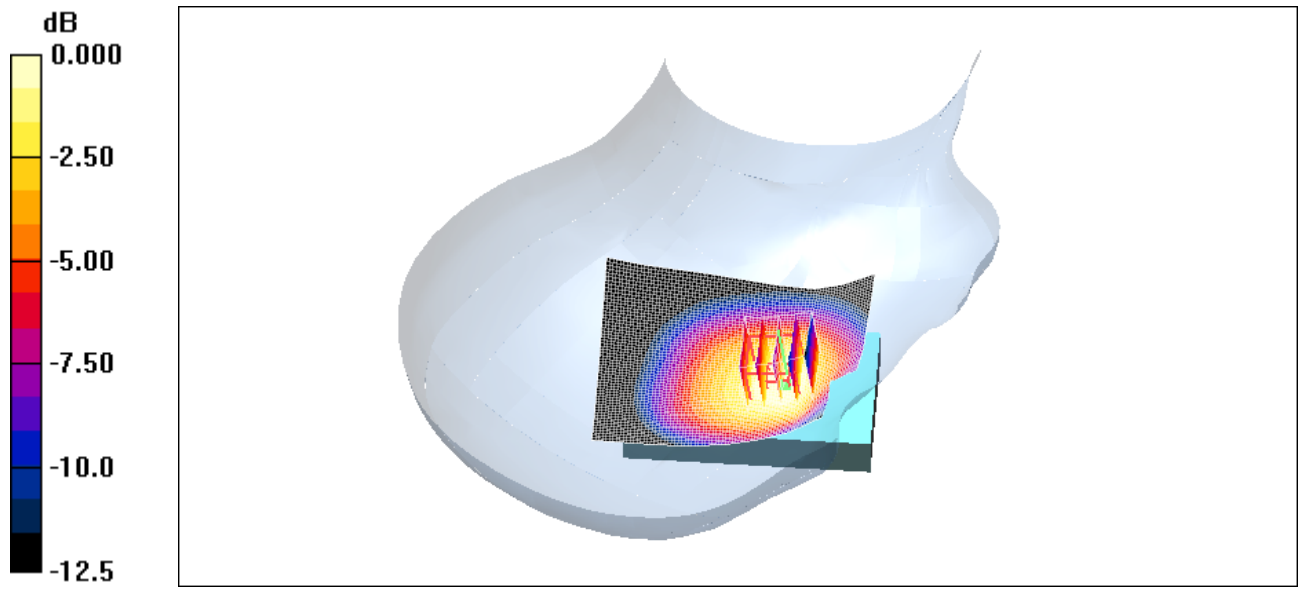
Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.673 mW/g**


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

Maximum value of SAR (measured) = 0.973 mW/g

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0 dB = 0.973mW/g

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Date/Time: 6/22/2010 9:48:05 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_22.9\_liq\_temp\_2 2.1C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.86$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.28 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 11.3 V/m; Power Drift = -0.069 dB

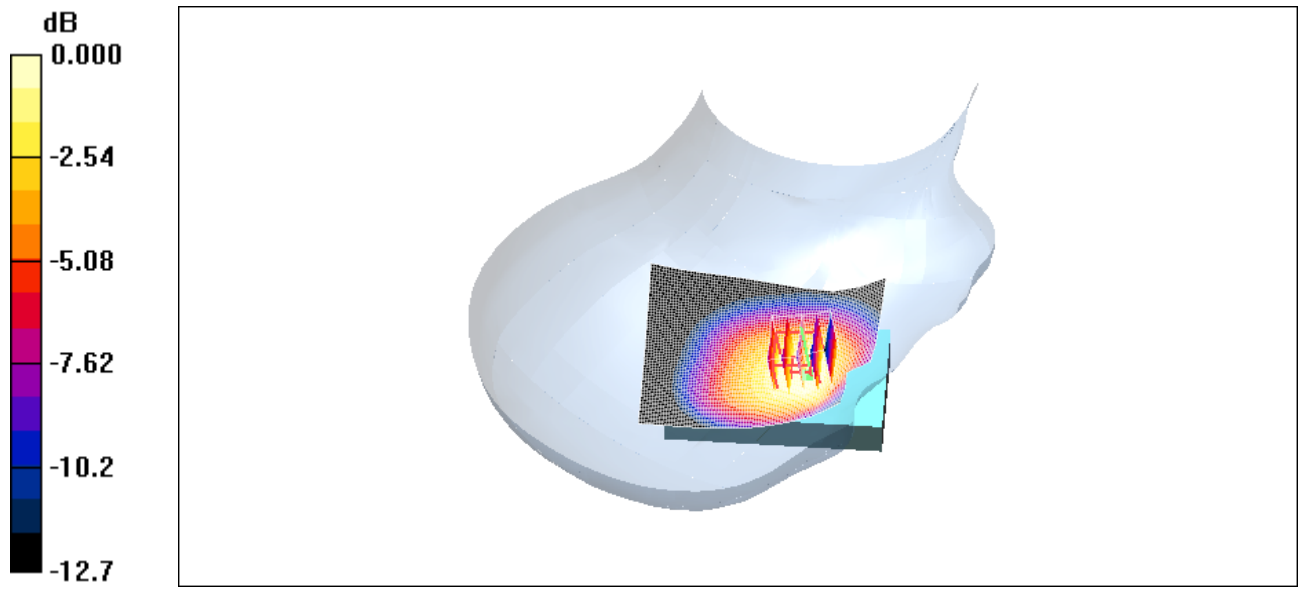
Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.830 mW/g**


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

Maximum value of SAR (measured) = 1.20 mW/g

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0 dB = 1.20mW/g

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Date/Time: 6/22/2010 10:17:00 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_UMTS\_band\_V\_high\_chan\_amb\_temp\_23.2\_liq\_temp\_2 2.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.881$  mho/m;  $\epsilon_r = 40.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.15 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 10.6 V/m; Power Drift = 0.082 dB


Peak SAR (extrapolated) = 1.35 W/kg

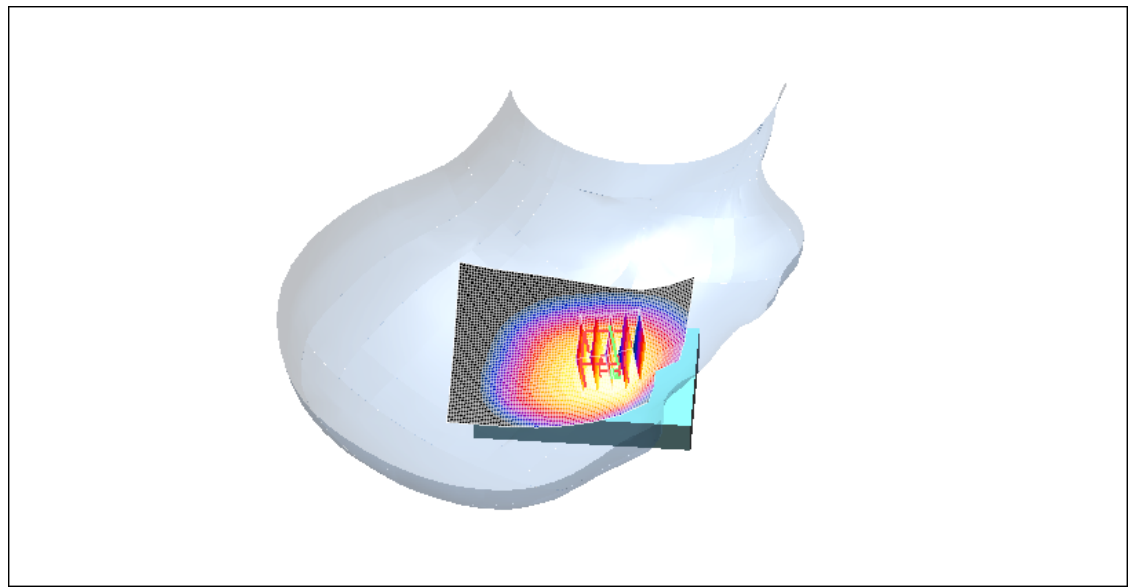
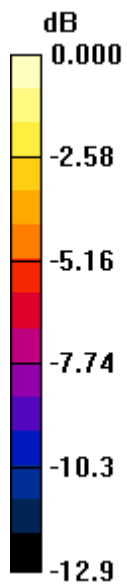
**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.752 mW/g**

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


Maximum value of SAR (measured) = 1.09 mW/g



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0 dB = 1.09mW/g

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Date/Time: 6/22/2010 11:10:17 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_Tilt\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_23.3\_liq\_tem  
p\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.86$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.698 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 18.2 V/m; Power Drift = -0.038 dB

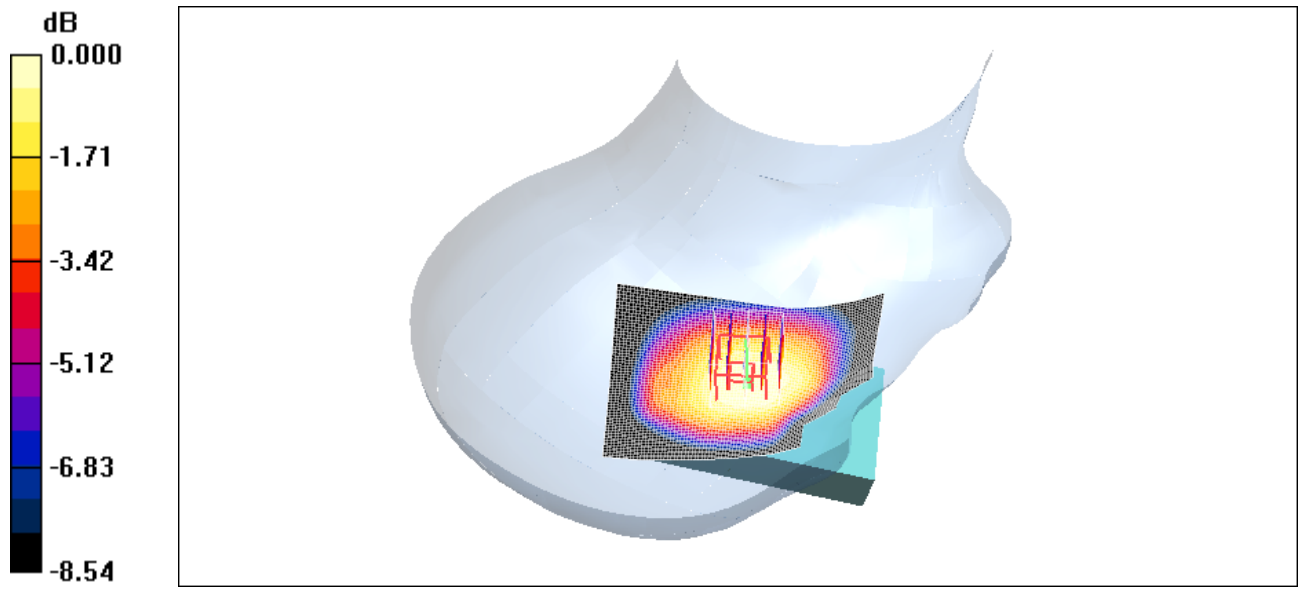
Peak SAR (extrapolated) = 0.814 W/kg

**SAR(1 g) = 0.661 mW/g; SAR(10 g) = 0.503 mW/g**


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

Maximum value of SAR (measured) = 0.689 mW/g

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0 dB = 0.689mW/g

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Date/Time: 6/22/2010 11:47:26 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_UMTS\_band\_V\_low\_chan\_amb\_temp\_23.1\_liq\_temp\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.844$  mho/m;  $\epsilon_r = 41.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.916 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 8.34 V/m; Power Drift = 0.029 dB

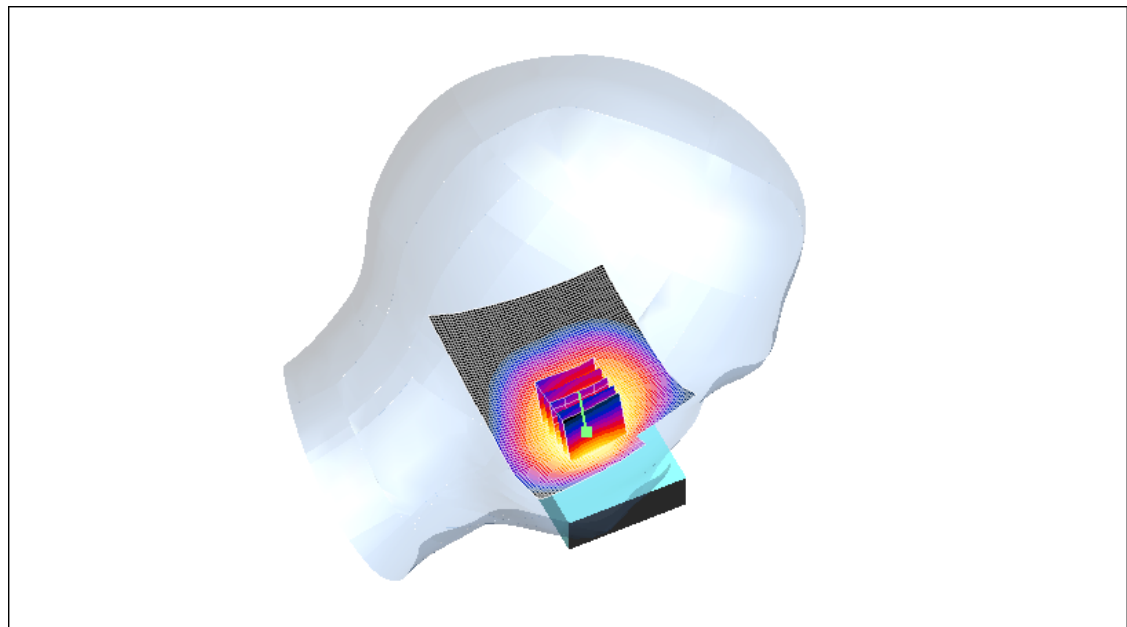
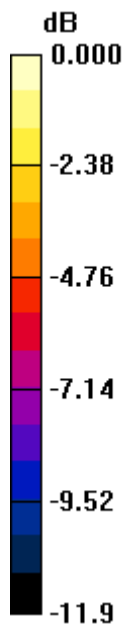
Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.857 mW/g; SAR(10 g) = 0.603 mW/g**


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

Maximum value of SAR (measured) = 0.912 mW/g

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0 dB = 0.912mW/g

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Date/Time: 6/22/2010 11:27:31 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_23.3\_liq\_temp\_22.5C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.86$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.18 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 9.51 V/m; Power Drift = -0.192 dB

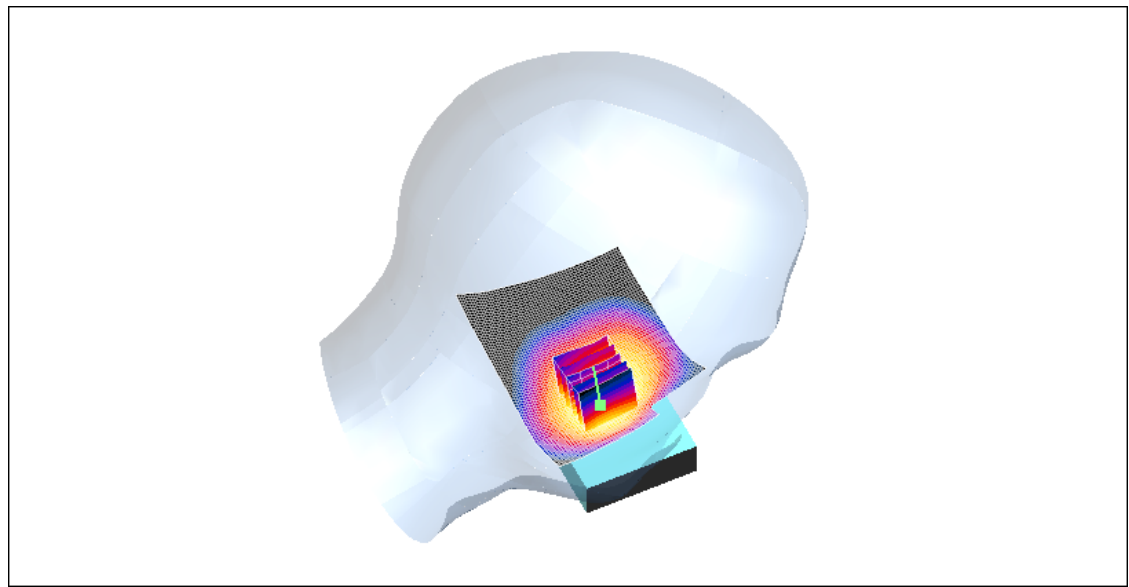
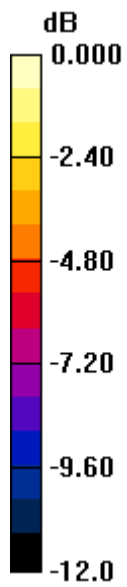
Peak SAR (extrapolated) = 1.54 W/kg

**SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.776 mW/g**


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

Maximum value of SAR (measured) = 1.18 mW/g

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0 dB = 1.18mW/g

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Date/Time: 6/23/2010 12:02:06 AM

Test Laboratory: RIM Testing Services

**LeftHandSide\_UMTS\_band\_V\_high\_chan\_amb\_temp\_23.0\_liq\_temp\_22  
.2C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 846.6 \text{ MHz}$ ;  $\sigma = 0.881 \text{ mho/m}$ ;  $\epsilon_r = 40.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.09 mW/g

**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 = 9.03 V/m; Power Drift = 0.250 dB


Peak SAR (extrapolated) = 1.42 W/kg

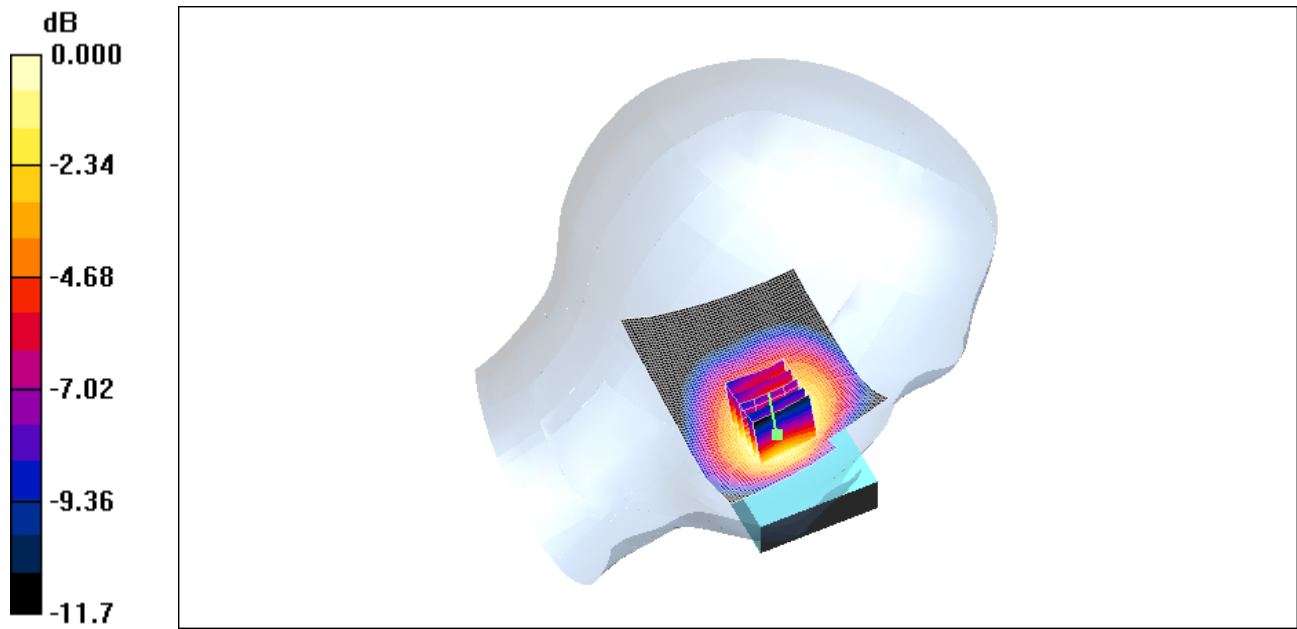
**SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.716 mW/g**

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


Maximum value of SAR (measured) = 1.09 mW/g



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0 dB = 1.09mW/g

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Date/Time: 6/23/2010 12:21:29 AM

Test Laboratory: RIM Testing Services

## LeftHandSide\_Tilt\_UMTS\_band\_V\_mid\_chan\_amb\_temp\_23.3\_liq\_temp \_22.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.86$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.12, 6.12, 6.12); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.672 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 16.0 V/m; Power Drift = 0.046 dB

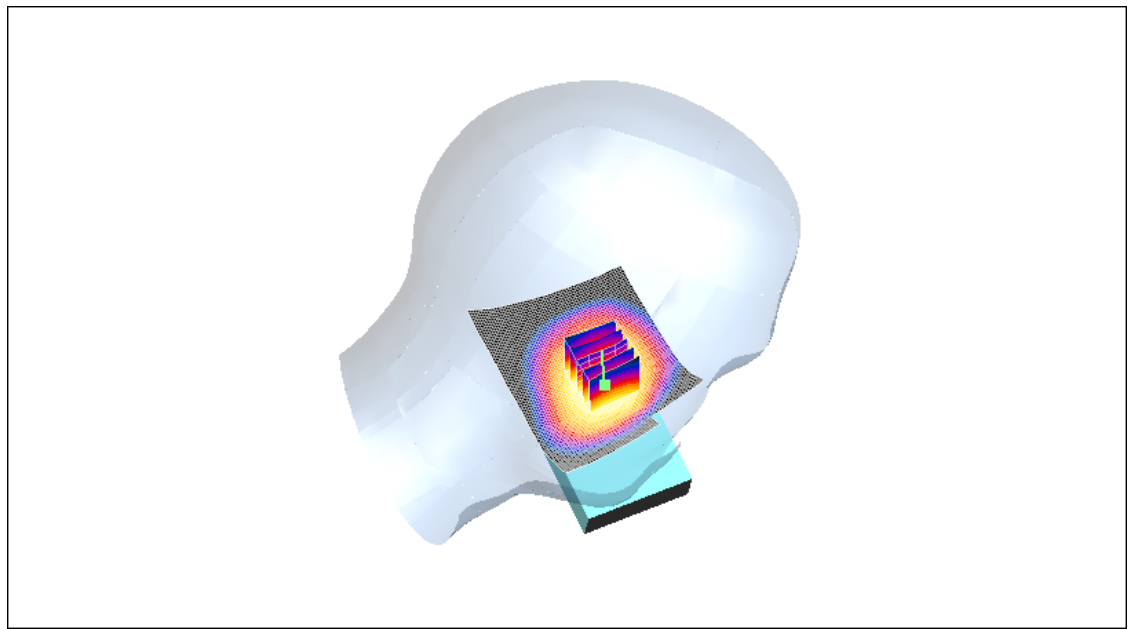
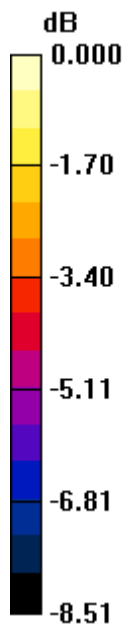
Peak SAR (extrapolated) = 0.772 W/kg

**SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.483 mW/g**


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

Maximum value of SAR (measured) = 0.663 mW/g

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0 dB = 0.663mW/g

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Date/Time: 6/10/2010 9:14:39 PM

Test Laboratory: RIM Testing Services

**RightHandSide\_EDGE1900\_mid\_chan\_amb\_temp\_22.9\_liq\_temp\_22.1**

**C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**


Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 41.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

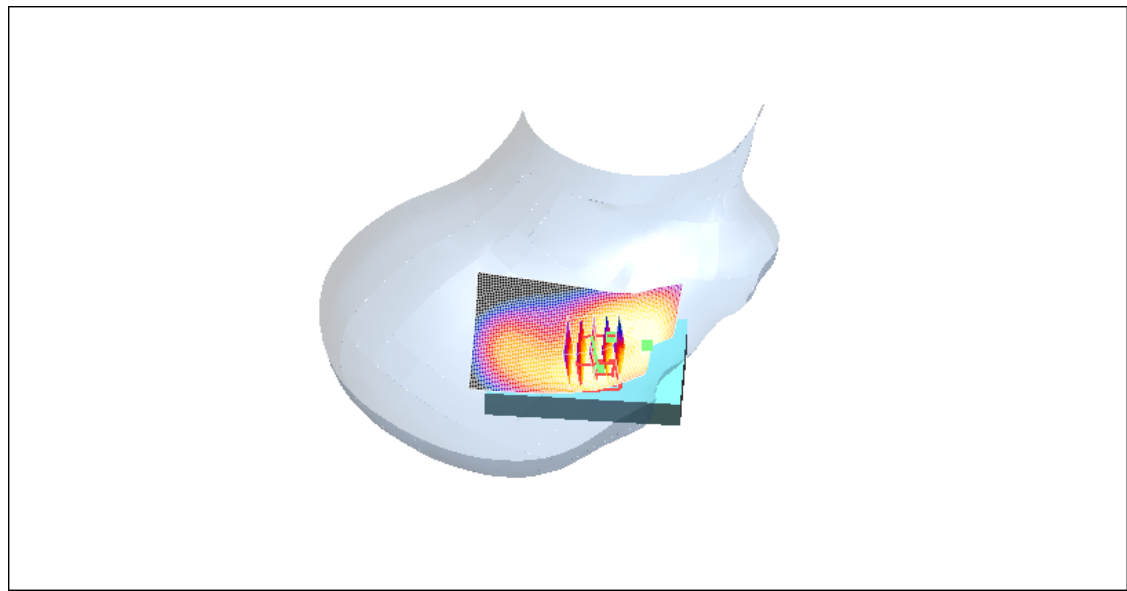
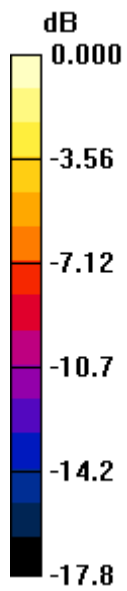
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.671 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 11.4 V/m; Power Drift = 0.015 dB  
Peak SAR (extrapolated) = 0.895 W/kg  
**SAR(1 g) = 0.595 mW/g; SAR(10 g) = 0.370 mW/g**  
Maximum value of SAR (measured) = 0.631 mW/g

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0 dB = 0.631mW/g

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Date/Time: 6/10/2010 9:33:25 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_Tilt\_EDGE1900\_mid\_chan\_amb\_temp\_23.3\_liq\_temp\_2 2.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**


Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 41.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

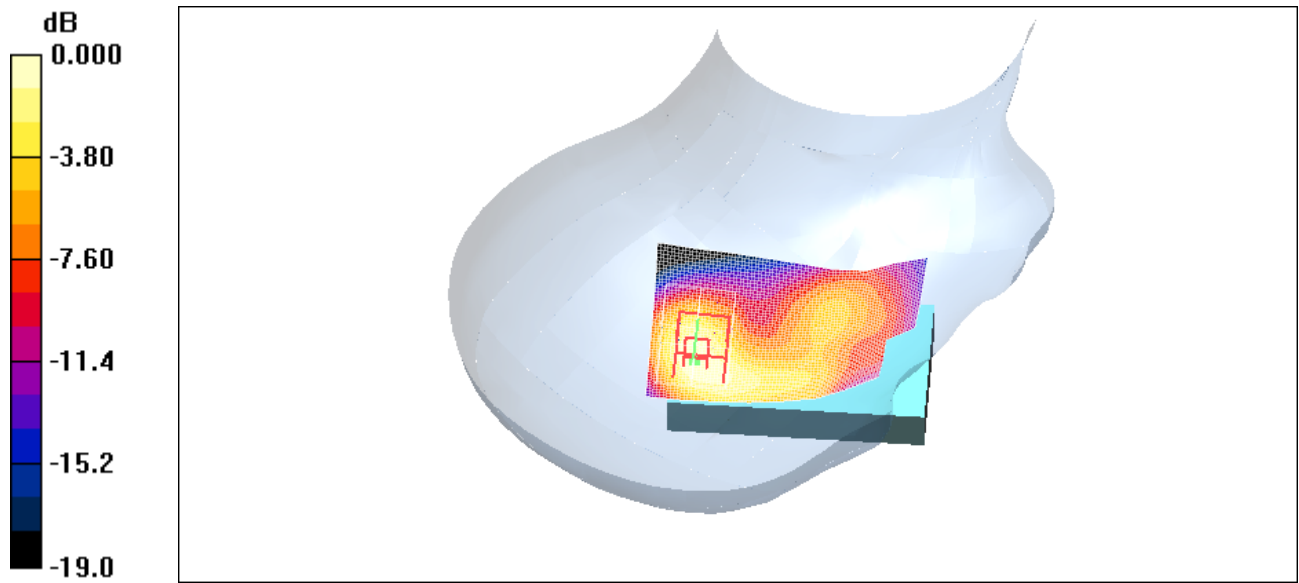
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.359 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 14.1 V/m; Power Drift = 0.066 dB  
Peak SAR (extrapolated) = 0.496 W/kg  
**SAR(1 g) = 0.318 mW/g; SAR(10 g) = 0.187 mW/g**  
Maximum value of SAR (measured) = 0.350 mW/g

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0 dB = 0.350mW/g

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Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE1900\_low\_chan\_amb\_temp\_23.0\_liq\_temp\_22.2C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: EDGE 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.20 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = -0.037 dB


Peak SAR (extrapolated) = 1.82 W/kg

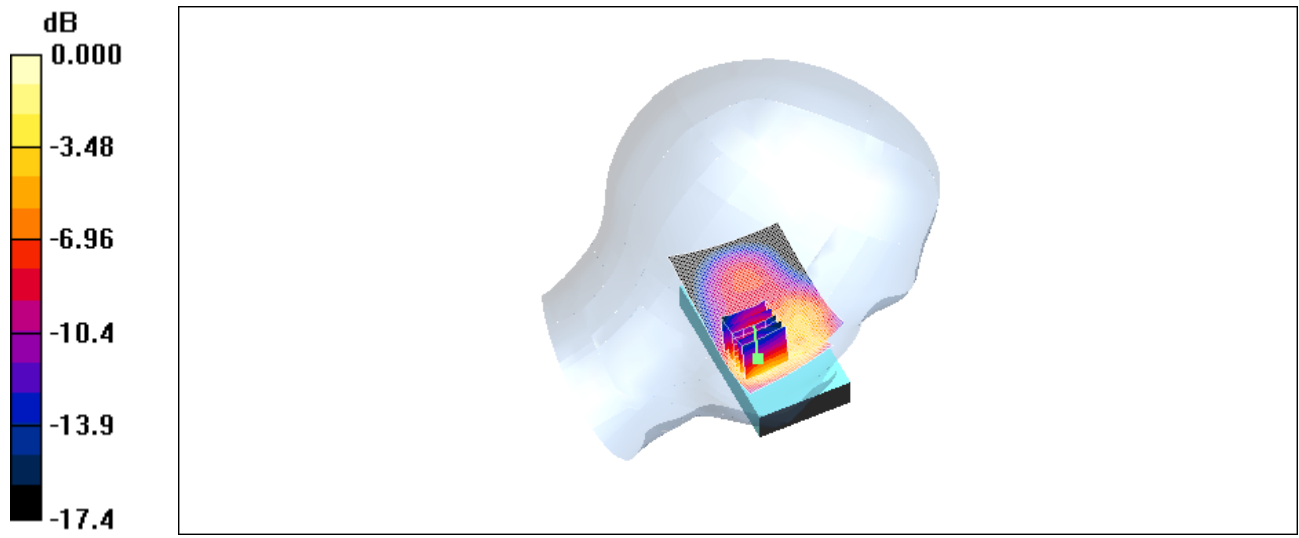
**SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.624 mW/g**

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


Maximum value of SAR (measured) = 1.25 mW/g



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0 dB = 1.25mW/g

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Date/Time: 6/10/2010 9:59:47 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_EDGE1900\_mid\_chan\_amb\_temp\_23.4\_liq\_temp\_22.6C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.46$  mho/m;  $\epsilon_r = 41.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section


DASY4 Configuration:

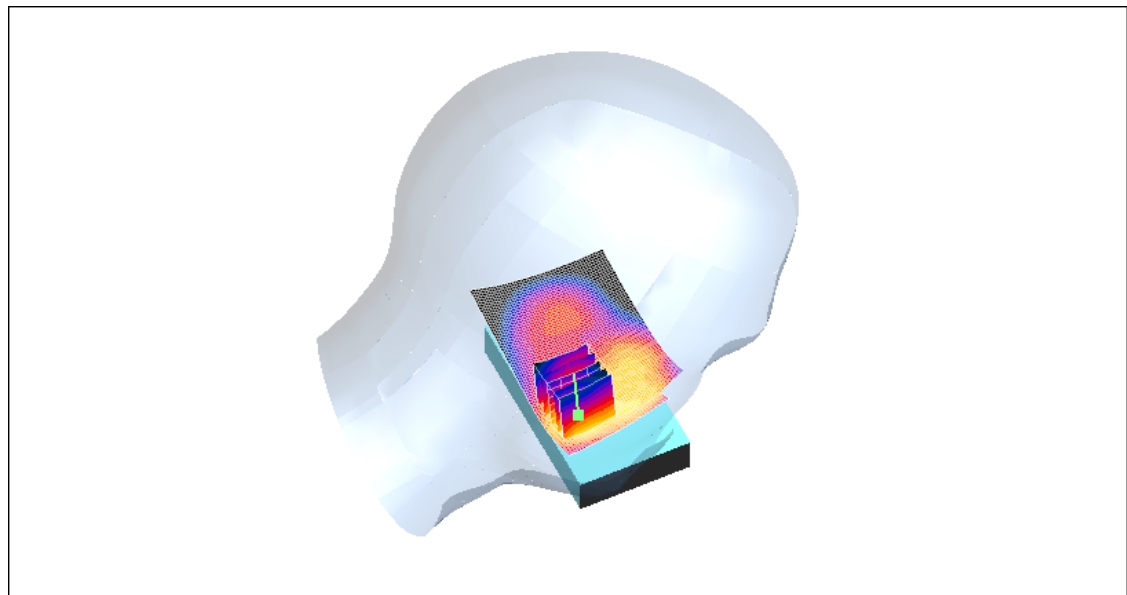
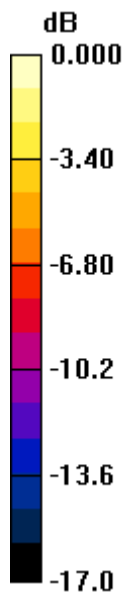
- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.03 mW/g


**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 11.9 V/m; Power Drift = -0.069 dB  
Peak SAR (extrapolated) = 1.55 W/kg  
**SAR(1 g) = 0.950 mW/g; SAR(10 g) = 0.537 mW/g**

Maximum value of SAR (measured) = 1.08 mW/g

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0 dB = 1.08mW/g

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Date/Time: 6/10/2010 10:43:06 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_EDGE1900\_high\_chan\_amb\_temp\_23.5\_liq\_temp\_22.7C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: EDGE 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 42$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section


DASY4 Configuration:

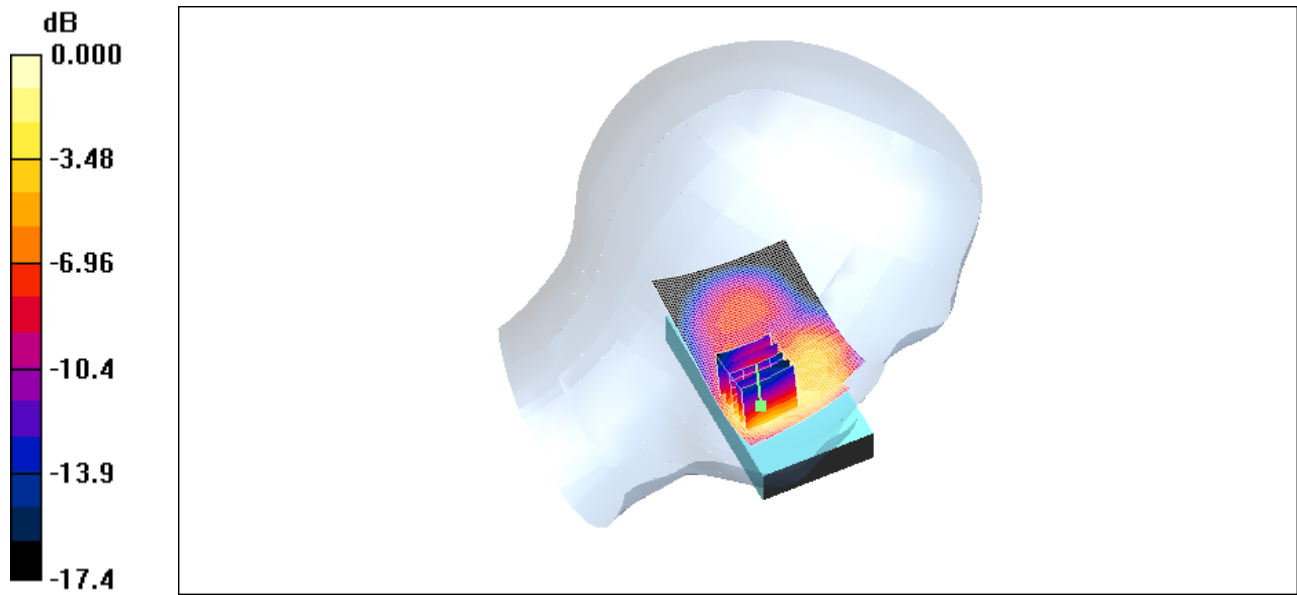
- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.864 mW/g


**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 10.5 V/m; Power Drift = -0.020 dB  
Peak SAR (extrapolated) = 1.28 W/kg  
**SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.444 mW/g**

Maximum value of SAR (measured) = 0.883 mW/g

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0 dB = 0.883mW/g

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Test Laboratory: RIM Testing Services

## LeftHandSide\_GSM1900\_low\_chan\_amb\_temp\_23.1\_liq\_temp\_22.3C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.969 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 11.2 V/m; Power Drift = -0.042 dB

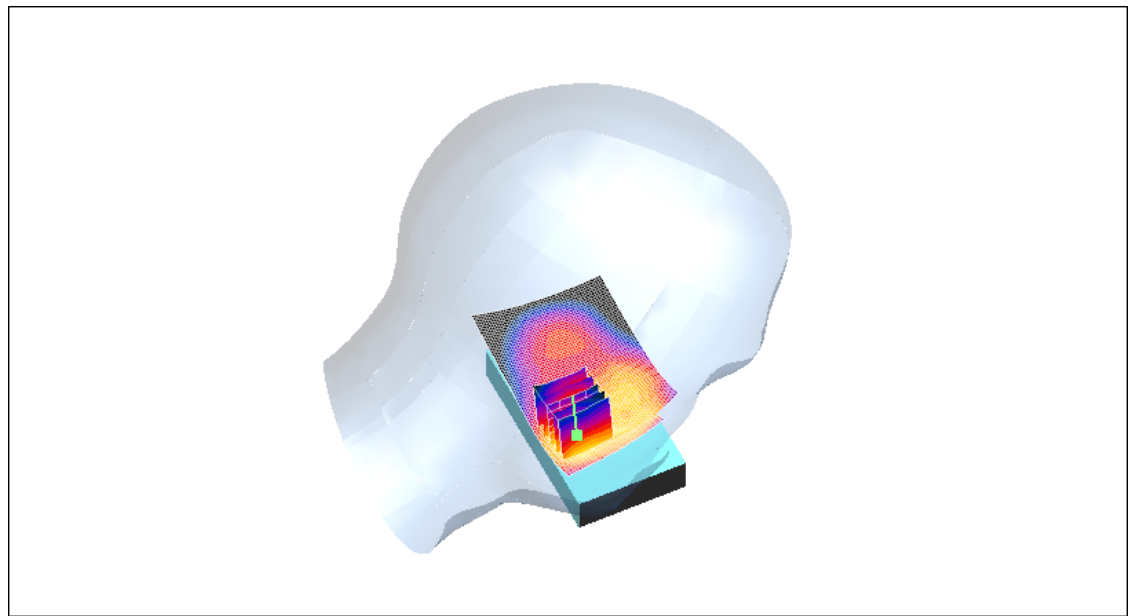
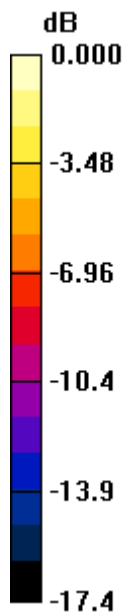
Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.901 mW/g; SAR(10 g) = 0.514 mW/g**


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

Maximum value of SAR (measured) = 1.00 mW/g

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0 dB = 1.00mW/g

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Test Laboratory: RIM Testing Services

**LeftHandSide\_Tilt\_EDGE1900\_low\_chan\_amb\_temp\_23.2\_liq\_temp\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: EDGE 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.378 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 16.8 V/m; Power Drift = -0.009 dB


Peak SAR (extrapolated) = 0.529 W/kg

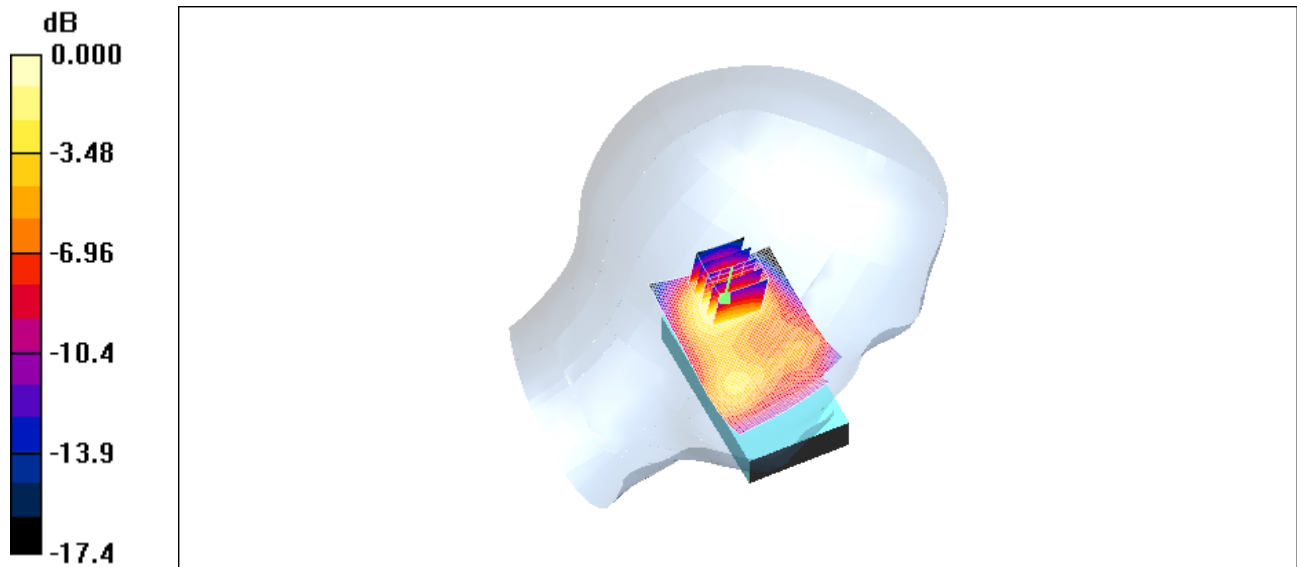
**SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.195 mW/g**

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


Maximum value of SAR (measured) = 0.378 mW/g



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0 dB = 0.378mW/g

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Date/Time: 6/14/2010 3:51:52 PM

Test Laboratory: RIM Testing Services

## RightHandSide\_UMTS\_band\_II\_mid\_chan\_amb\_temp\_22.6\_liq\_temp\_2 1.4C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section  
Measurement Standard: DAS4 (High Precision Assessment)


DASY4 Configuration:

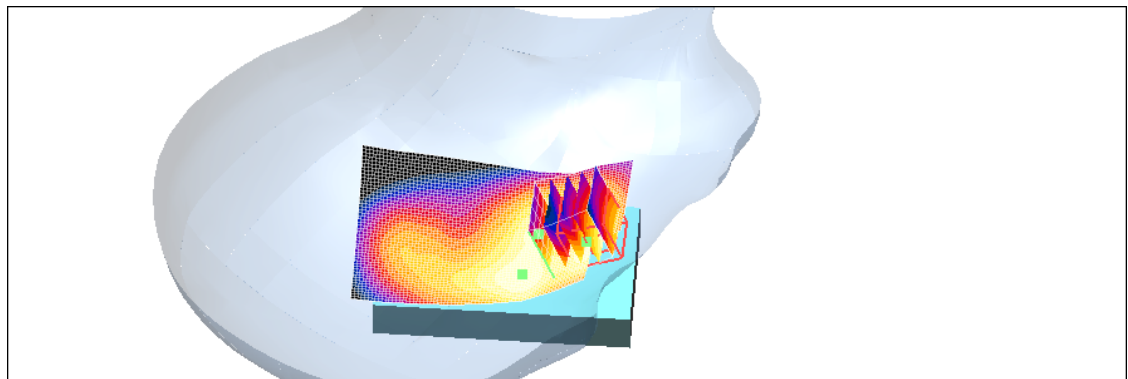
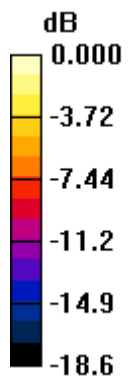
- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.896 mW/g


**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 13.6 V/m; Power Drift = -0.119 dB  
Peak SAR (extrapolated) = 1.24 W/kg  
**SAR(1 g) = 0.715 mW/g; SAR(10 g) = 0.353 mW/g**

Maximum value of SAR (measured) = 0.804 mW/g

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0 dB = 0.804mW/g

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Test Laboratory: RIM Testing Services

**RightHandSide\_Tilt\_UMTS\_band\_II\_mid\_chan\_amb\_temp\_22.7\_liq\_tem  
p\_22.4C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**


Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section  
Measurement Standard: DAS4 (High Precision Assessment)

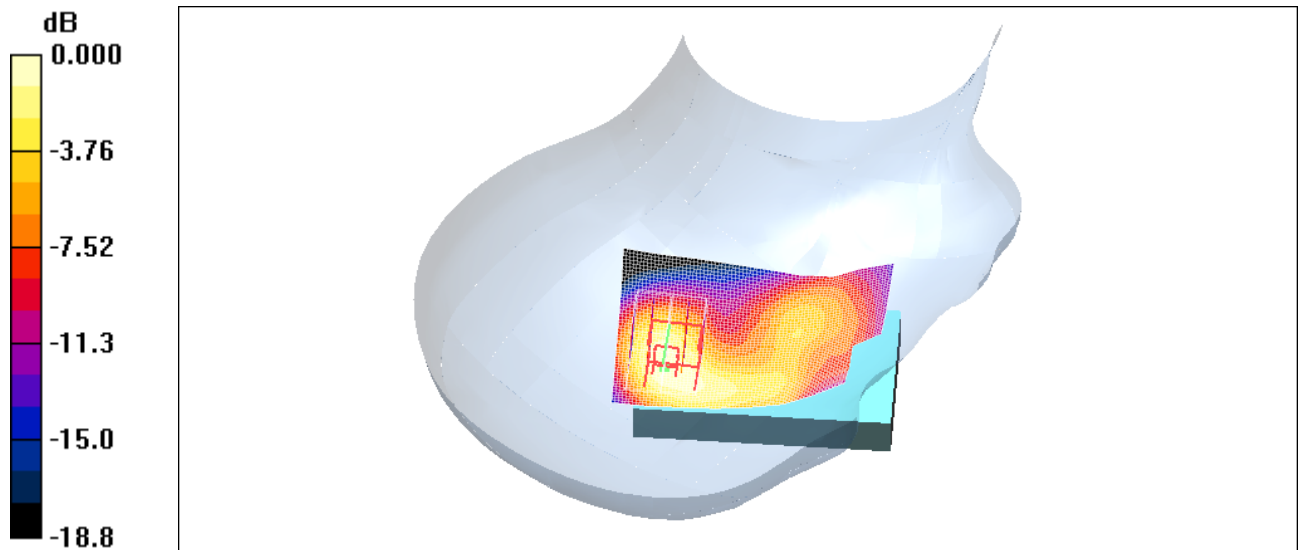
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186


**Touch position -/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.509 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 17.5 V/m; Power Drift = 0.066 dB  
Peak SAR (extrapolated) = 0.709 W/kg  
**SAR(1 g) = 0.456 mW/g; SAR(10 g) = 0.270 mW/g**  
Maximum value of SAR (measured) = 0.502 mW/g

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0 dB = 0.502mW/g

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Date/Time: 6/14/2010 2:17:27 PM

Test Laboratory: RIM Testing Services

## UMTS\_band\_II\_low\_chan\_amb\_temp\_22.7\_liq\_temp\_21.5C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.29$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.55 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 14.4 V/m; Power Drift = -0.024 dB

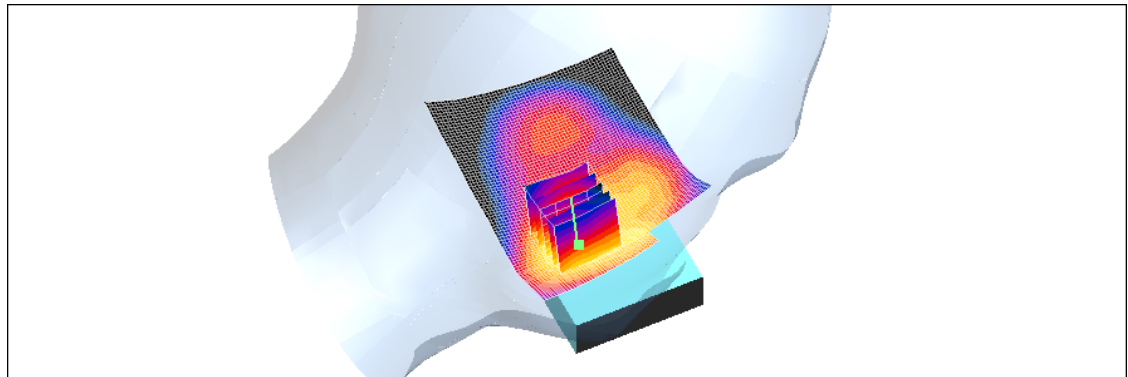
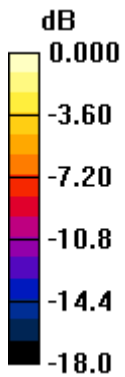
Peak SAR (extrapolated) = 2.23 W/kg

**SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.783 mW/g**


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

Maximum value of SAR (measured) = 1.54 mW/g

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0 dB = 1.54mW/g

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Date/Time: 6/14/2010 2:34:11 PM

Test Laboratory: RIM Testing Services

## UMTS\_band\_II\_mid\_chan\_amb\_temp\_22.8\_liq\_temp\_21.6C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 39.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section  
Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:


- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

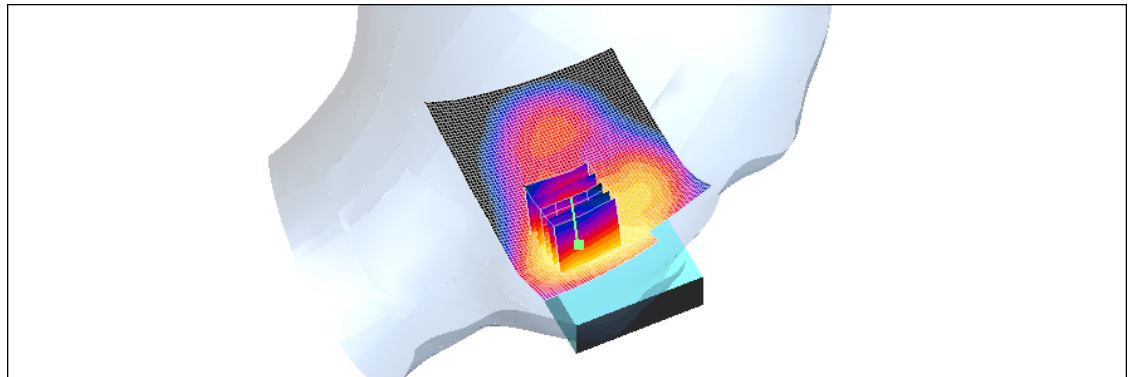
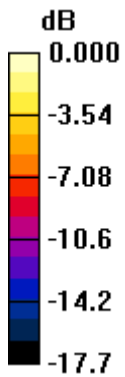
**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.54 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 13.6 V/m; Power Drift = 0.020 dB  
Peak SAR (extrapolated) = 2.22 W/kg  
**SAR(1 g) = 1.37 mW/g; SAR(10 g) = 0.763 mW/g**


Maximum value of SAR (measured) = 1.51 mW/g



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0 dB = 1.51mW/g

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Date/Time: 6/14/2010 2:50:38 PM

Test Laboratory: RIM Testing Services

**LeftHandSide\_UMTS\_band\_II\_high\_chan\_amb\_temp\_22.9\_liq\_temp\_21.8C**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 40.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.60 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 13.1 V/m; Power Drift = -0.003 dB

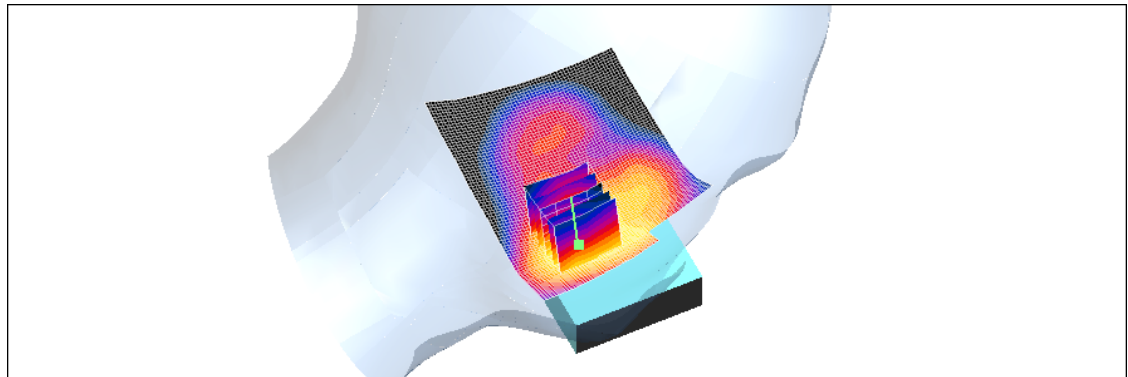
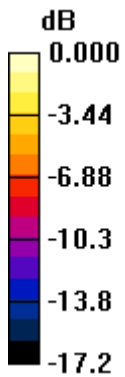
Peak SAR (extrapolated) = 2.32 W/kg

**SAR(1 g) = 1.41 mW/g; SAR(10 g) = 0.784 mW/g**


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

Maximum value of SAR (measured) = 1.57 mW/g

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0 dB = 1.57mW/g

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Date/Time: 6/14/2010 3:15:12 PM

Test Laboratory: RIM Testing Services

## LeftHandSide\_Tilt\_UMTS\_band\_II\_high\_chan\_amb\_temp\_22.9\_liq\_temp\_21.8C

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 1907.6$  MHz;  $\sigma = 1.43$  mho/m;  $\epsilon_r = 40.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.487 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 18.5 V/m; Power Drift = -0.112 dB

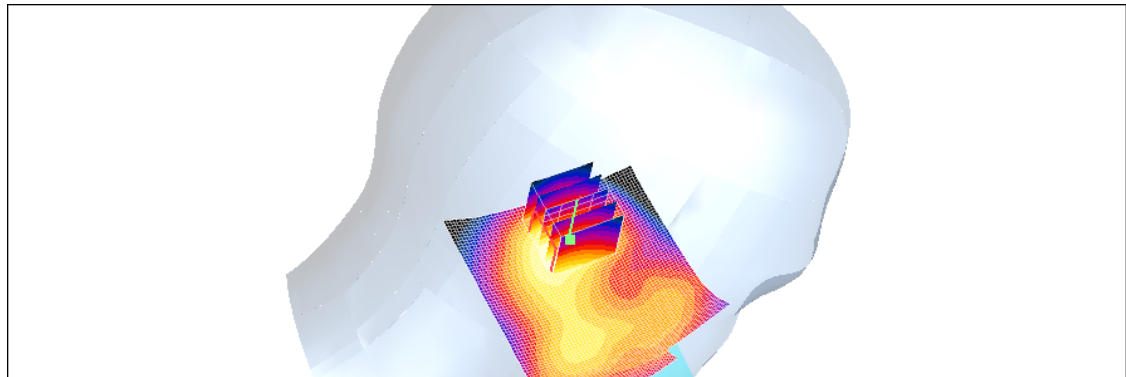
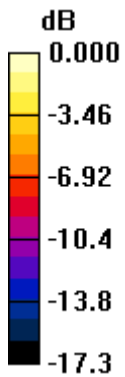
Peak SAR (extrapolated) = 0.673 W/kg

**SAR(1 g) = 0.428 mW/g; SAR(10 g) = 0.249 mW/g**


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

Maximum value of SAR (measured) = 0.470 mW/g

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0 dB = 0.470mW/g

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Date/Time: 6/17/2010 11:25:36 PM

Test Laboratory: RIM Testing Services

File Name: [RightHandSide\\_802.11b\\_low\\_chan\\_amb\\_temp\\_22.5\\_liq\\_temp\\_21.6C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**  
**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.76$  mho/m;  $\epsilon_r = 39.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.100 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 7.49 V/m; Power Drift = -0.025 dB

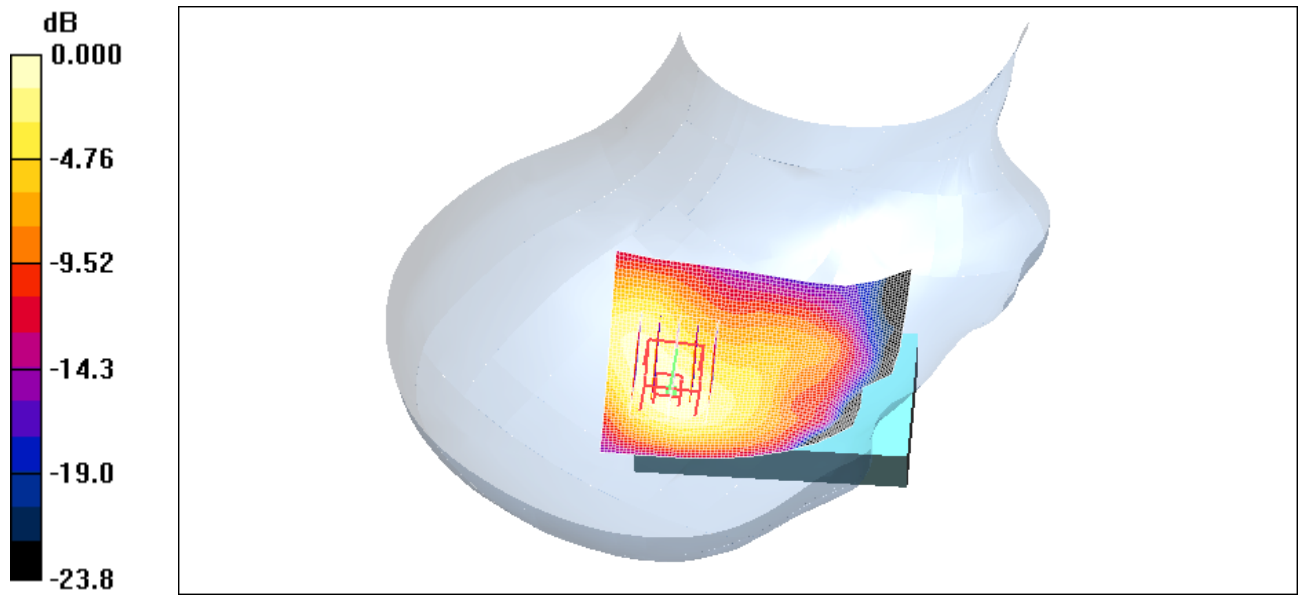
Peak SAR (extrapolated) = 0.161 W/kg

**SAR(1 g) = 0.092 mW/g; SAR(10 g) = 0.051 mW/g**


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

Maximum value of SAR (measured) = 0.100 mW/g

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0 dB = 0.100mW/g

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Date/Time: 6/17/2010 11:40:56 PM

Test Laboratory: RIM Testing Services

File Name: [RightHandSide\\_802.11b\\_mid\\_chan\\_amb\\_temp\\_22.7\\_liq\\_temp\\_21.8C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**  
**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.9$  mho/m;  $\epsilon_r = 40.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.109 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.63 V/m; Power Drift = -0.118 dB


Peak SAR (extrapolated) = 0.176 W/kg

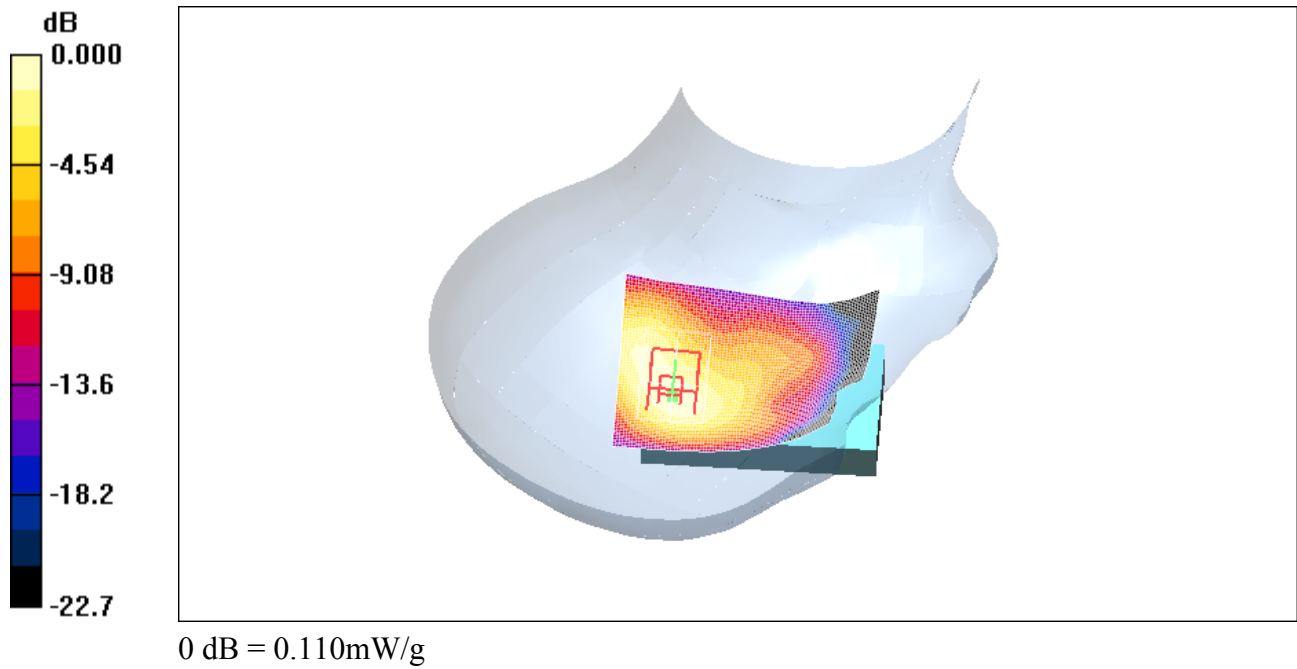
**SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.056 mW/g**


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

Maximum value of SAR (measured) = 0.110 mW/g



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Date/Time: 6/17/2010 11:57:05 PM

Test Laboratory: RIM Testing Services

File Name: [RightHandSide\\_802.11b\\_high\\_chan\\_amb\\_temp\\_22.5\\_liq\\_temp\\_21.6C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**  
**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.77$  mho/m;  $\epsilon_r = 40.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.101 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 7.53 V/m; Power Drift = -0.002 dB

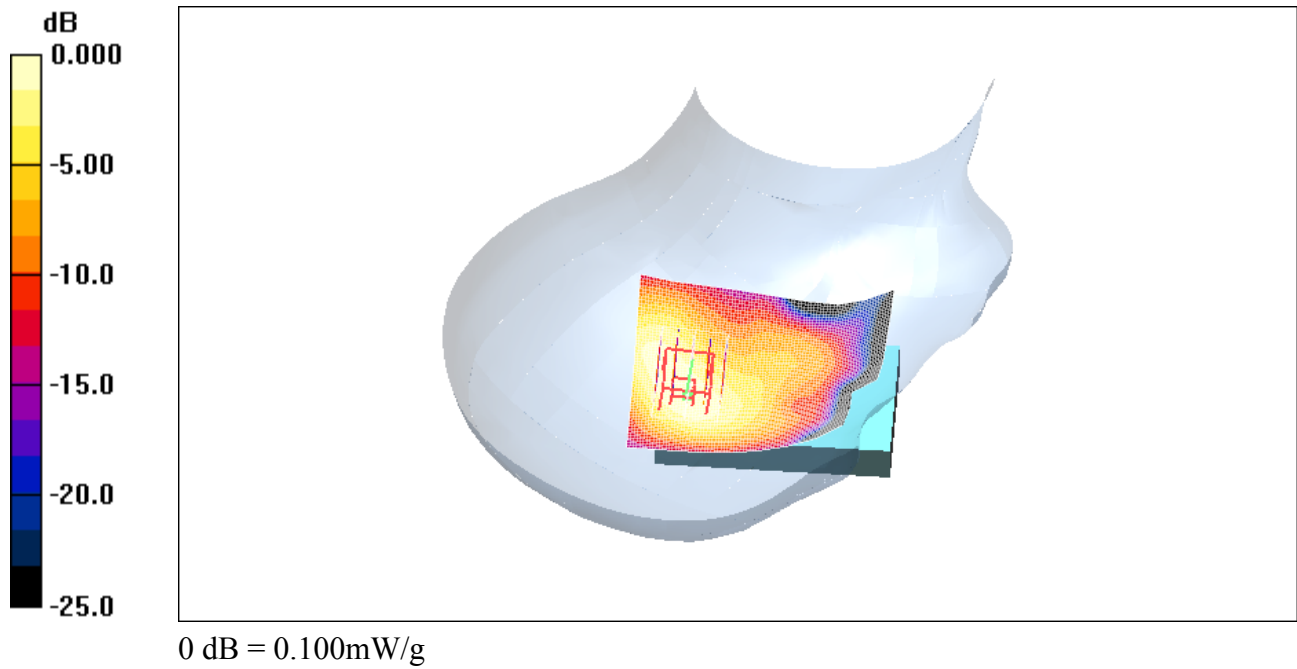
Peak SAR (extrapolated) = 0.163 W/kg


**SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.051 mW/g**

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

Maximum value of SAR (measured) = 0.100 mW/g

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Date/Time: 6/18/2010 12:20:03 AM

Test Laboratory: RIM Testing Services

File Name:

[RightHandSide\\_Tilt\\_802.11b\\_mid\\_chan\\_amb\\_temp\\_23.0\\_liq\\_temp\\_22.1C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**

**Program Name: Compliance Testing: (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.9$  mho/m;  $\epsilon_r = 40.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.154 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 8.35 V/m; Power Drift = -0.032 dB

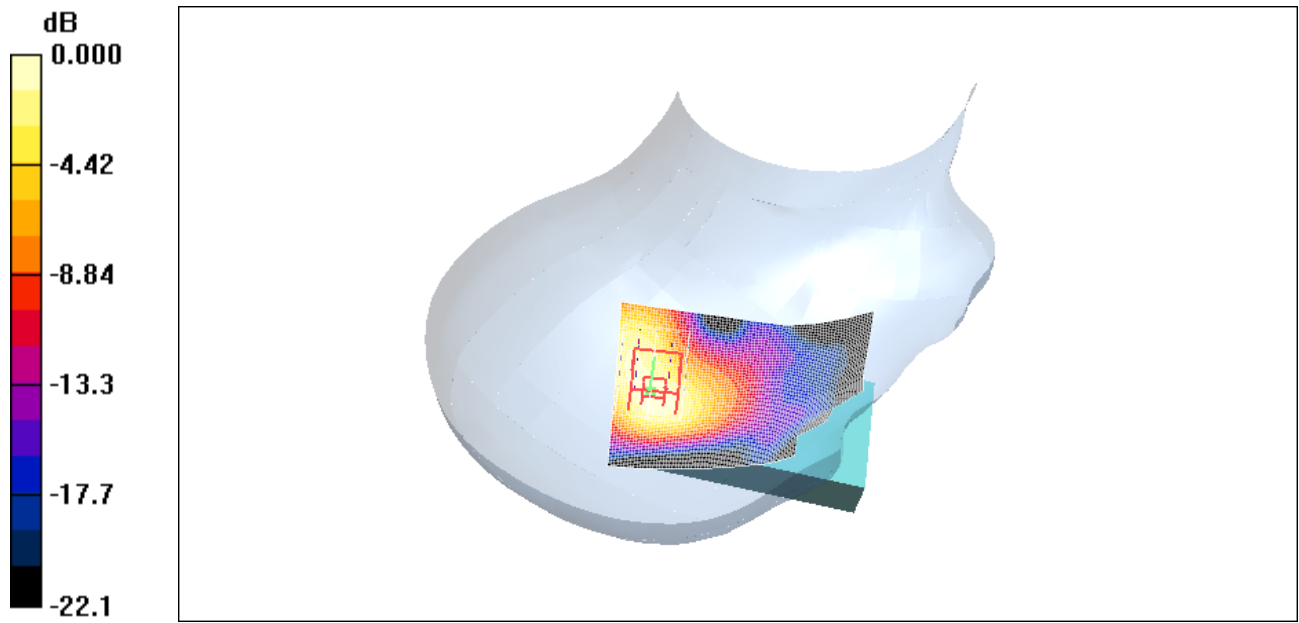
Peak SAR (extrapolated) = 0.259 W/kg

**SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.074 mW/g**


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

Maximum value of SAR (measured) = 0.155 mW/g

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0 dB = 0.155mW/g

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Date/Time: 6/18/2010 12:38:24 AM

Test Laboratory: RIM Testing Services

File Name: [LeftHandSide\\_802.11b\\_mid\\_chan\\_amb\\_temp\\_22.5\\_liq\\_temp\\_21.6C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.9$  mho/m;  $\epsilon_r = 40.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.173 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 7.20 V/m; Power Drift = 0.002 dB

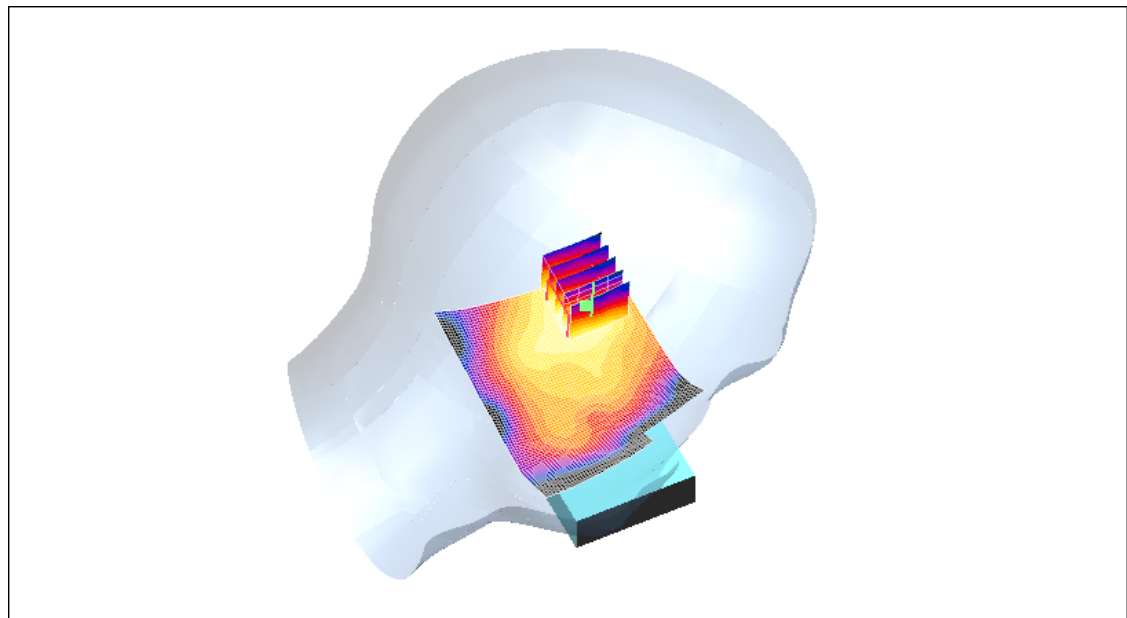
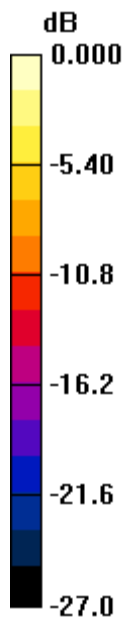
Peak SAR (extrapolated) = 0.391 W/kg

**SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.085 mW/g**


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

Maximum value of SAR (measured) = 0.184 mW/g

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0 dB = 0.184mW/g

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Date/Time: 6/18/2010 12:54:44 AM

Test Laboratory: RIM Testing Services

File Name:

[LeftHandSide\\_Tilt\\_802.11b\\_mid\\_chan\\_amb\\_temp\\_22.4\\_liq\\_temp\\_21.5C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 226DCEFC**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.9$  mho/m;  $\epsilon_r = 40.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.53, 4.53, 4.53); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Touch position -/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.189 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.97 V/m; Power Drift = -0.067 dB


Peak SAR (extrapolated) = 0.343 W/kg

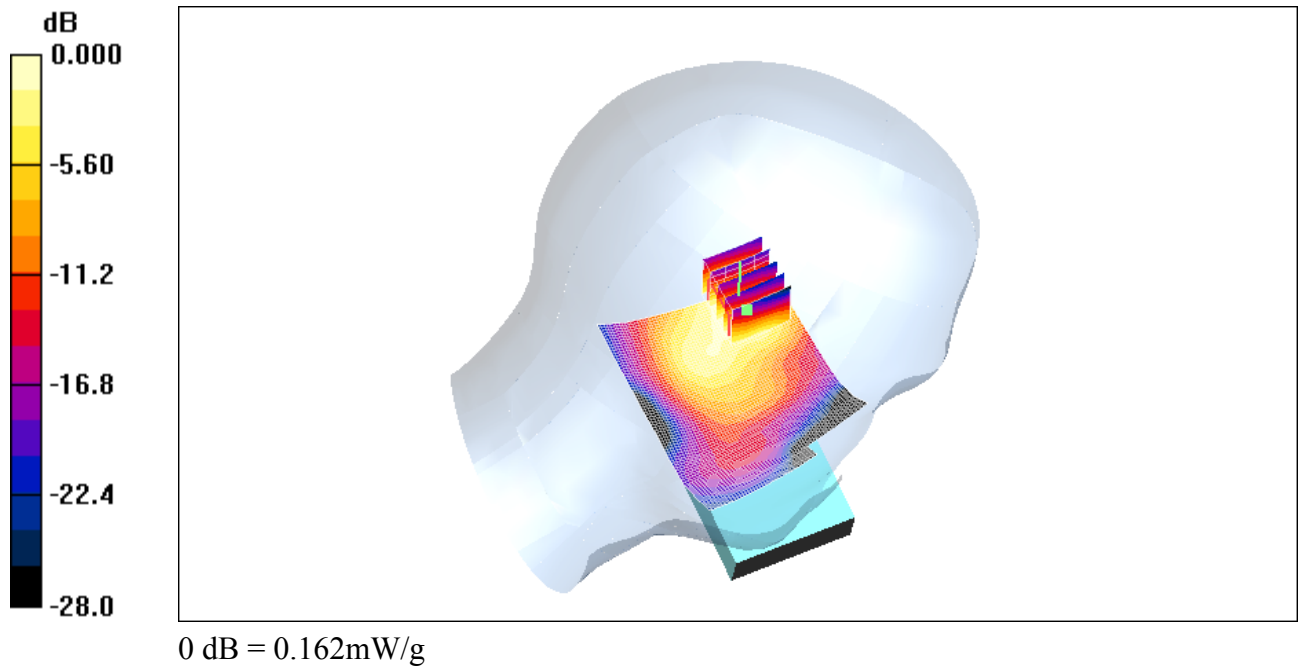
**SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.079 mW/g**


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

Maximum value of SAR (measured) = 0.162 mW/g



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**Z axis plot for the worst case head configuration:**

