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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Date/Time: 5/27/2010 6:20:35 PM

Test Laboratory: RIM Testing Services

File Name: [RightHandSide_CDMA800_mid_chan_amb_temp_23.2_liq_temp_22.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

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

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.865 \text{ mho/m}$; $\epsilon_r = 43.5$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.466 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 = 7.13 V/m ; Power Drift = 0.111 dB

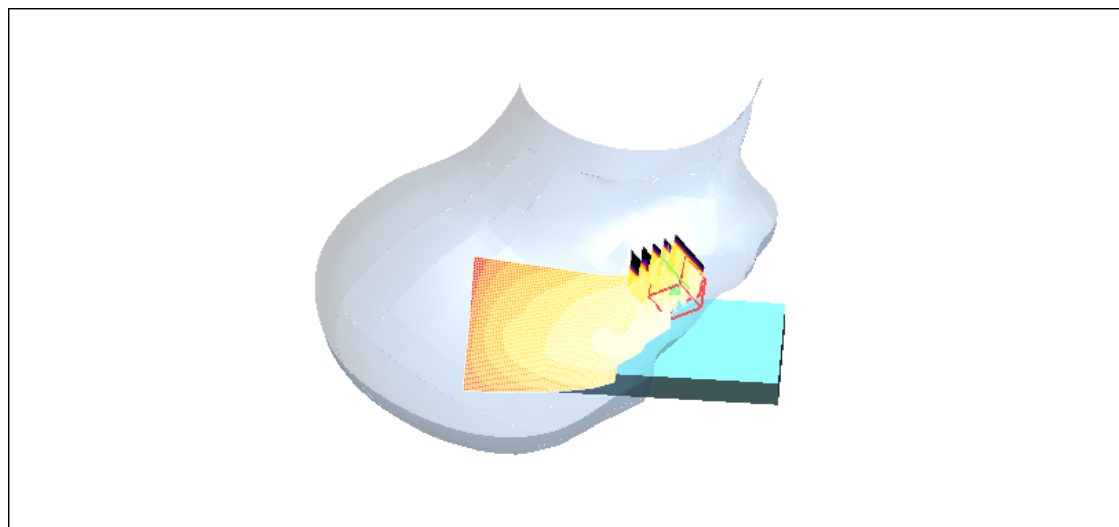
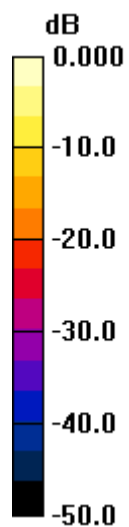
Peak SAR (extrapolated) = 0.686 W/kg

SAR(1 g) = 0.461 mW/g ; SAR(10 g) = 0.304 mW/g

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

Maximum value of SAR (measured) = 0.461 mW/g

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0 dB = 0.461mW/g

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Date/Time: 5/27/2010 6:47:21 PM

Test Laboratory: RIM Testing Services

File Name:

[RightHandSide_Tilt_CDMA800_mid_chan_amb_temp_23.1_liq_temp_22.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

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

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.865 \text{ mho/m}$; $\epsilon_r = 43.5$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.391 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 = 12.0 V/m; Power Drift = 0.160 dB

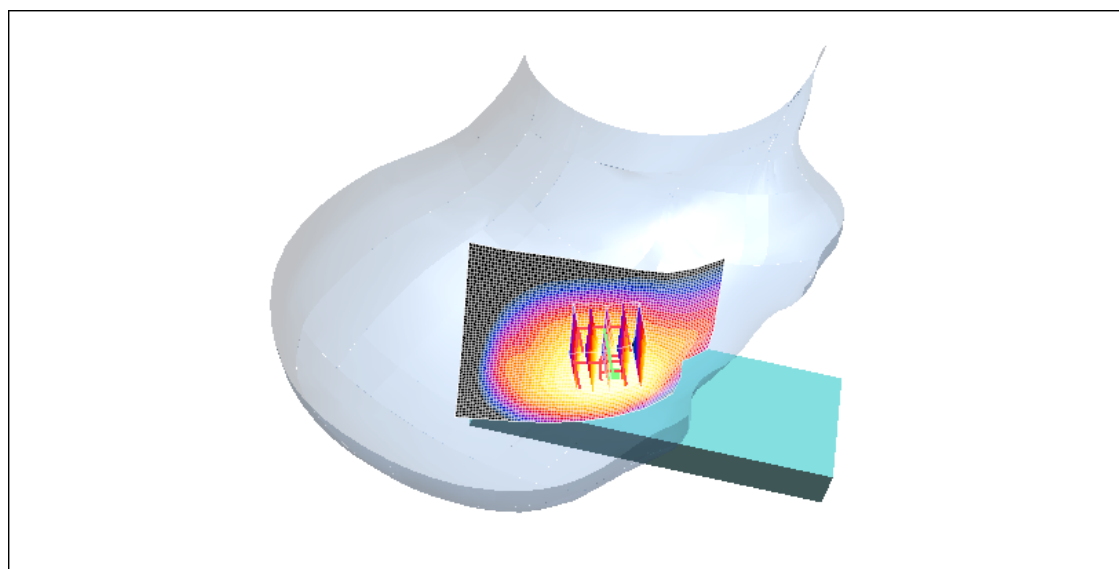
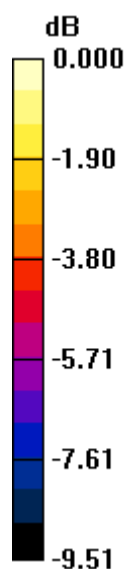
Peak SAR (extrapolated) = 0.491 W/kg

SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.276 mW/g

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

Maximum value of SAR (measured) = 0.386 mW/g

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0 dB = 0.386mW/g

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Date/Time: 5/27/2010 7:14:06 PM

Test Laboratory: RIM Testing Services

File Name: [LeftHandSide_CDMA800_mid_chan_amb_temp_22.5_liq_temp_21.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094
Program Name: Compliance Testing: (Left-Hand Side)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.865 \text{ mho/m}$; $\epsilon_r = 43.5$; $\rho = 1000 \text{ kg/m}^3$
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 (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.601 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 = 6.39 V/m ; Power Drift = 0.048 dB

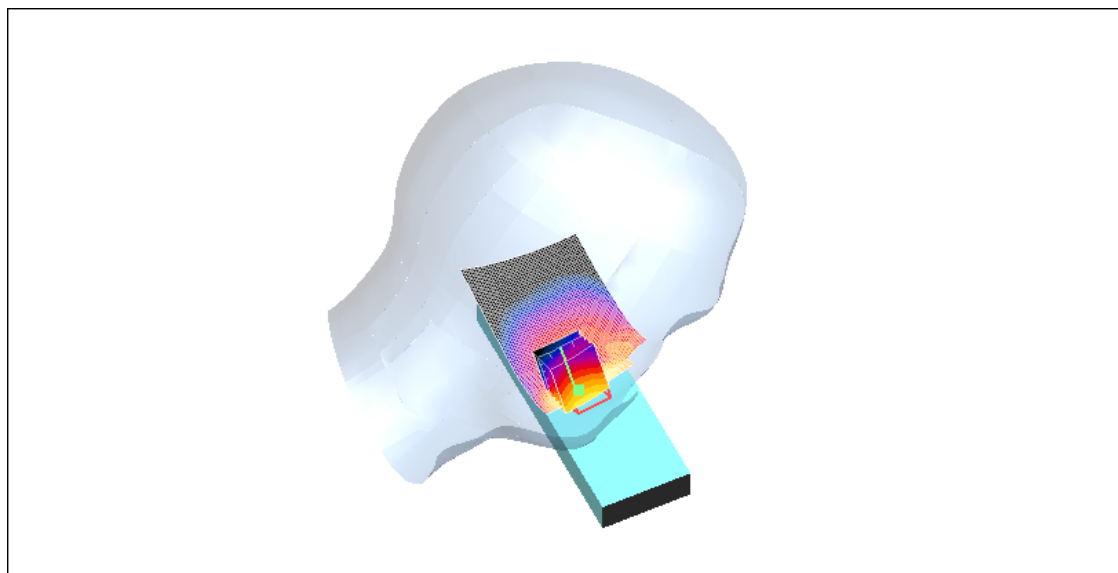
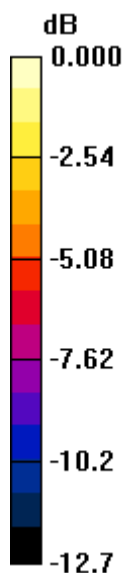
Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.515 mW/g ; SAR(10 g) = 0.328 mW/g

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

Maximum value of SAR (measured) = 0.576 mW/g

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0 dB = 0.576mW/g

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Date/Time: 6/28/2010 11:10:03 AM

Test Laboratory: RIM Testing Services

File Name: [LeftHandSide_CDMA800_mid_chan_amb_temp_22.5_liq_temp_21.7C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 322F4A5C

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.885 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$

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 (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.605 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 = 6.04 V/m; Power Drift = -0.259 dB

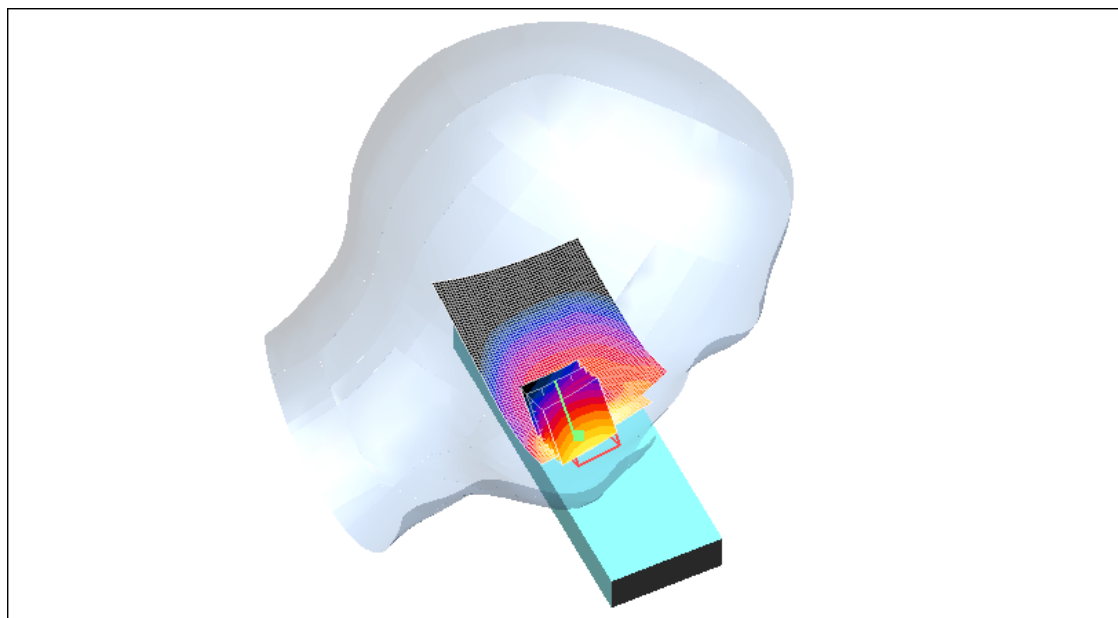
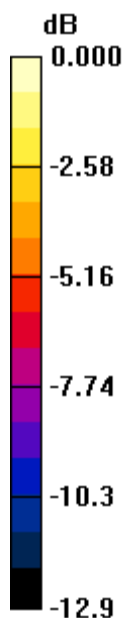
Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.494 mW/g; SAR(10 g) = 0.314 mW/g

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

Maximum value of SAR (measured) = 0.545 mW/g

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0 dB = 0.545mW/g

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Test Laboratory: RIM Testing Services

File Name:

[LeftHandSide_Tilt_CDMA800_mid_chan_amb_temp_22.2_liq_temp_21.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.865 \text{ mho/m}$; $\epsilon_r = 43.5$; $\rho = 1000 \text{ kg/m}^3$

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 (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.395 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 = 12.3 V/m ; Power Drift = -0.164 dB

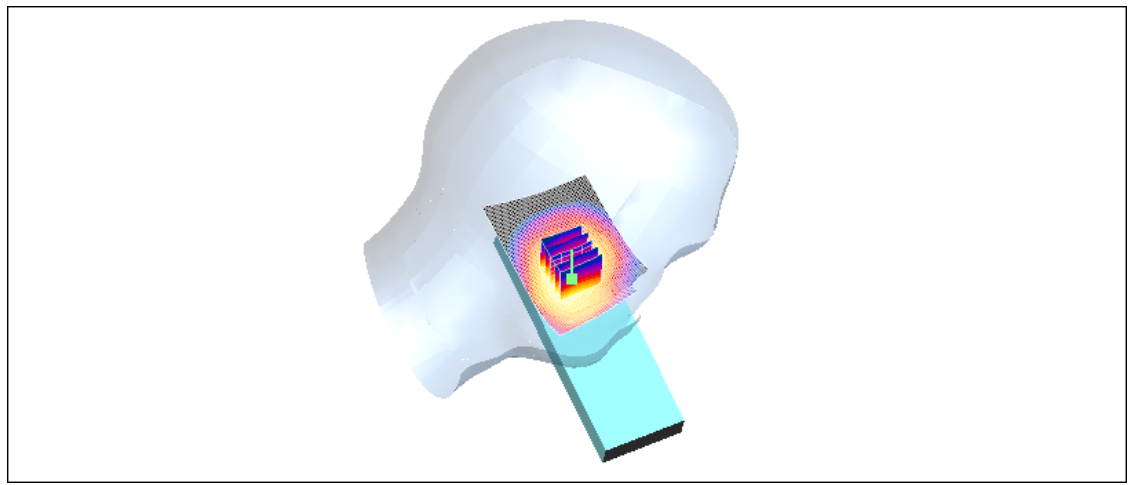
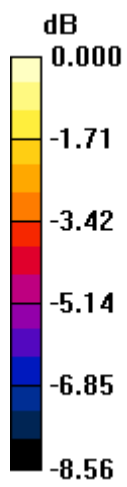
Peak SAR (extrapolated) = 0.484 W/kg

SAR(1 g) = 0.369 mW/g ; SAR(10 g) = 0.272 mW/g

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

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

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0 dB = 0.391mW/g

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Date/Time: 5/27/2010 8:46:59 PM

Test Laboratory: RIM Testing Services

File Name:

[Head Flat phantom CDMA800 mid chan amb temp 22.6 liq temp 21.6C.da4](#)

DUT: BlackBerry Smartphone_Clamshell; Type: Clamshell; Serial: 321D4094

Program Name: Compliance Testing: Head Flat Phantom

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.865 \text{ mho/m}$; $\epsilon_r = 43.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat 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 - Mid_/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) = 0.729 mW/g

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

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

Reference Value = 12.4 V/m; Power Drift = -0.080 dB

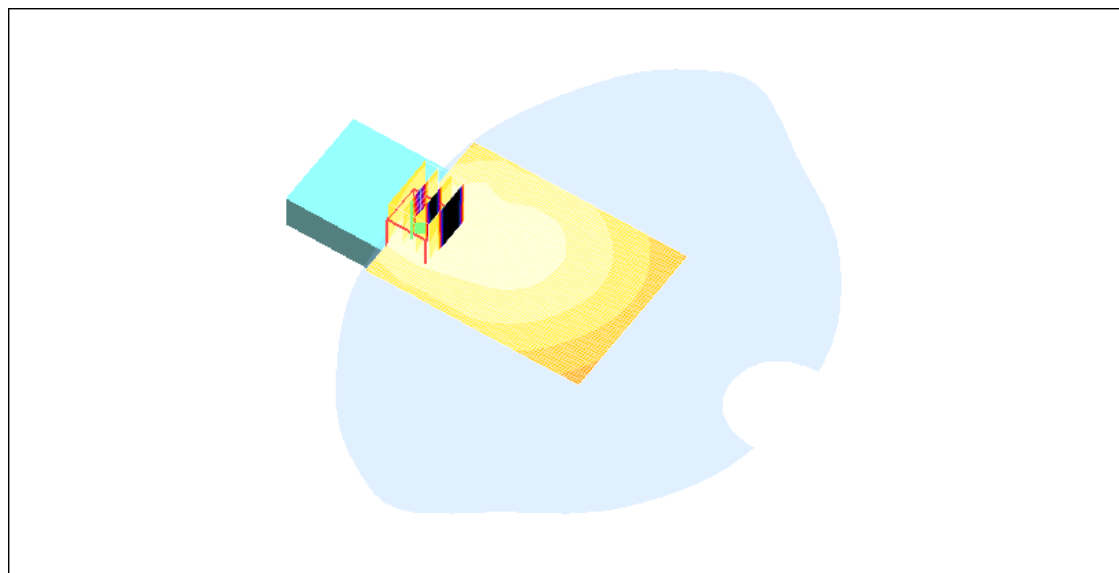
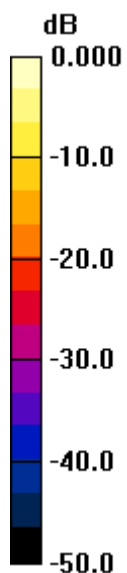
Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.692 mW/g; SAR(10 g) = 0.231 mW/g

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

Maximum value of SAR (measured) = 0.718 mW/g

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0 dB = 0.718mW/g

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Date/Time: 6/28/2010 12:22:36 PM

Test Laboratory: RIM Testing Services

File Name:

[Head Flat phantom CDMA800 mid chan amb temp 22.9 liq temp 22.1C.da4](#)

DUT: BlackBerry Smartphone_Clamshell; Type: Clamshell; Serial: 322F4A5C

Program Name: Compliance Testing: Head Flat Phantom

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.885 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat 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 - Mid_/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) = 0.777 mW/g

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

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

Reference Value = 12.4 V/m; Power Drift = -0.077 dB

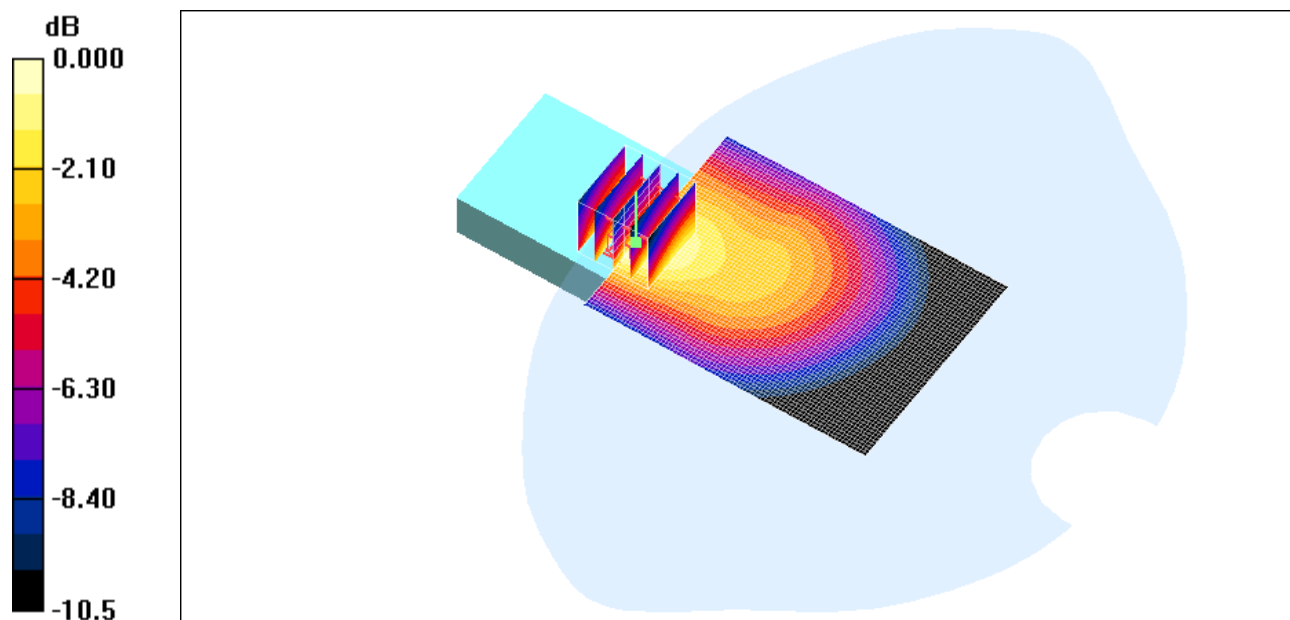
Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.713 mW/g; SAR(10 g) = 0.438 mW/g

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

Maximum value of SAR (measured) = 0.741 mW/g

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0 dB = 0.741mW/g

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Date/Time: 6/1/2010 12:52:39 AM

Test Laboratory: RIM Testing Services

RightHandSide_CDMA1900_low_chan_amb_temp_23.5_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$

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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.811 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 = 3.25 V/m ; Power Drift = -0.048 dB

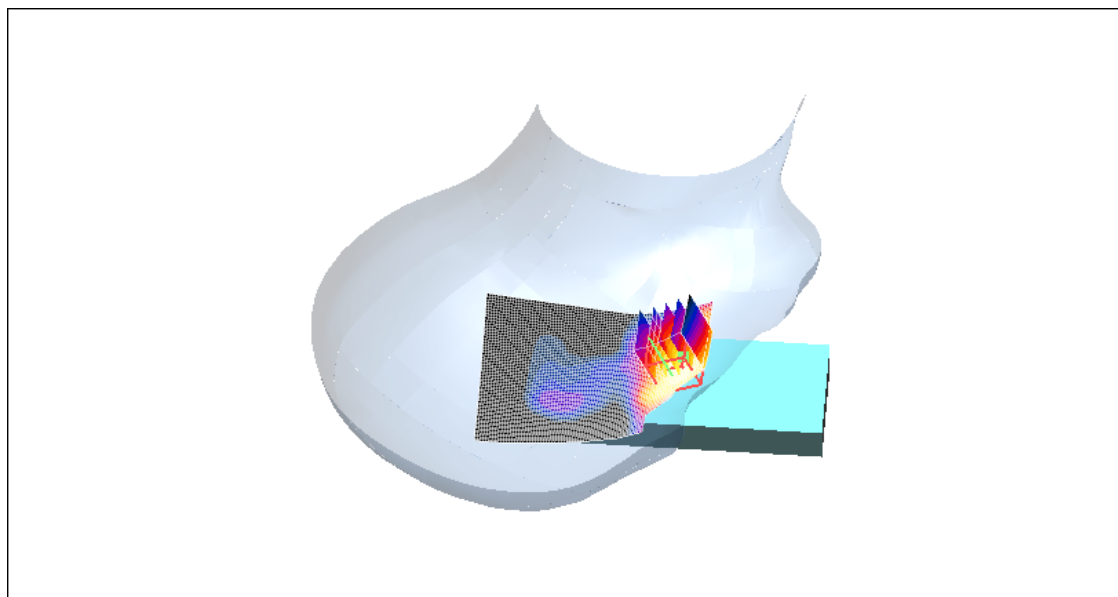
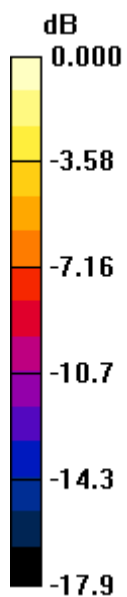
Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.745 mW/g ; SAR(10 g) = 0.410 mW/g

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

Maximum value of SAR (measured) = 0.795 mW/g

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0 dB = 0.795mW/g

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Andrew Becker	May 19 – June 28, 2010	RTS-2581-1006-38	L6ARCU20CW	2503A-RCU20CW

Date/Time: 6/1/2010 1:29:59 AM

Test Laboratory: RIM Testing Services

RightHandSide_CDMA1900_mid_chan_amb_temp_23.5_liq_temp_22.6

C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

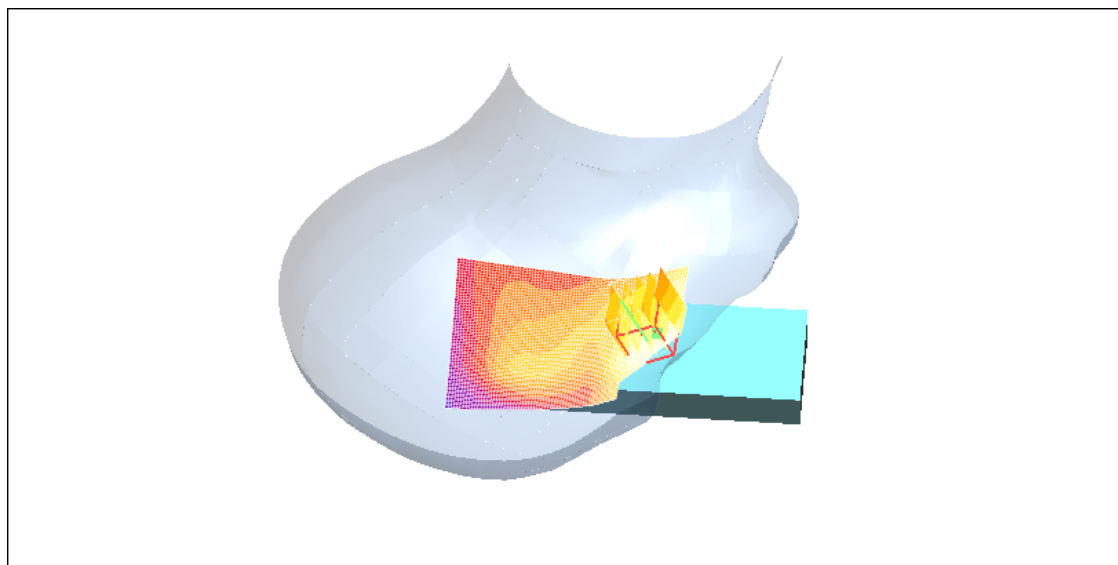
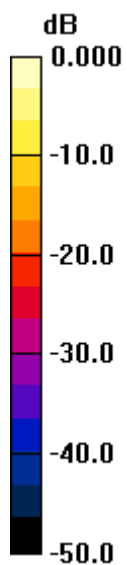
- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.767 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 = 2.80 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 1.15 W/kg
SAR(1 g) = 0.713 mW/g; SAR(10 g) = 0.391 mW/g

Maximum value of SAR (measured) = 0.774 mW/g

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0 dB = 0.774mW/g

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Date/Time: 6/1/2010 5:27:19 PM

Test Laboratory: RIM Testing Services

**RightHandSide_CDMA1900_high_chan_amb_temp_23.4_liq_temp_22.5
C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$
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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.664 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 = 2.68 V/m ; Power Drift = -0.436 dB

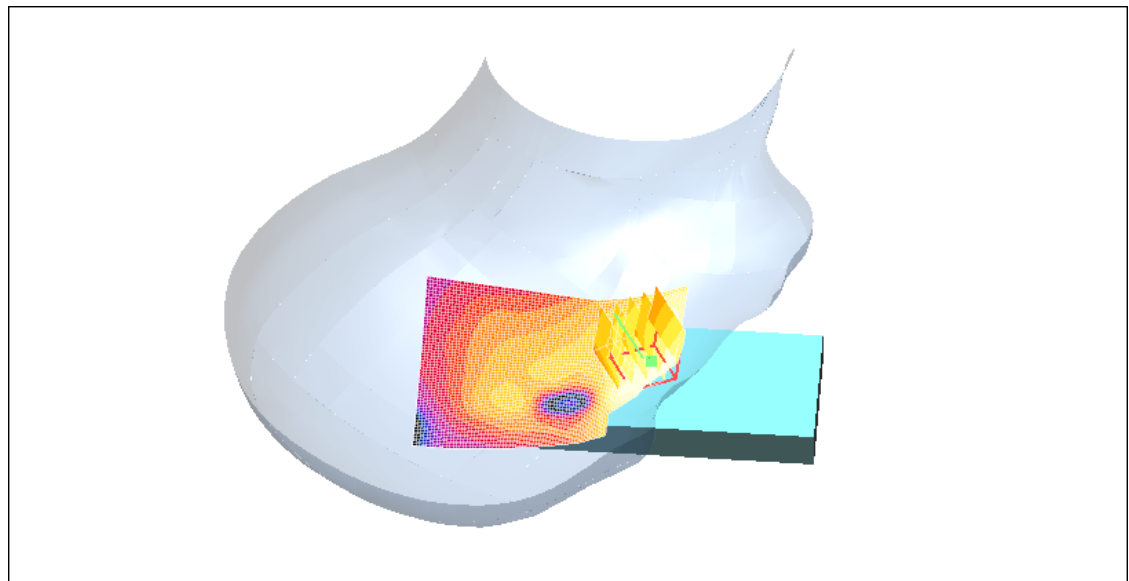
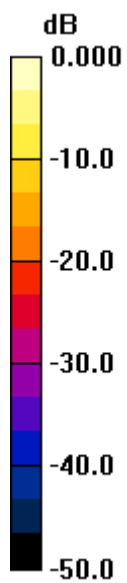
Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.614 mW/g ; SAR(10 g) = 0.339 mW/g

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

Maximum value of SAR (measured) = 0.667 mW/g

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0 dB = 0.667mW/g

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Date/Time: 6/1/2010 5:49:29 PM

Test Laboratory: RIM Testing Services

RightHandSide_Tilt_CDMA1900_low_chan_amb_temp_22.3_liq_temp_2

1.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$
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 (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.495 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 = 4.99 V/m; Power Drift = 0.502 dB

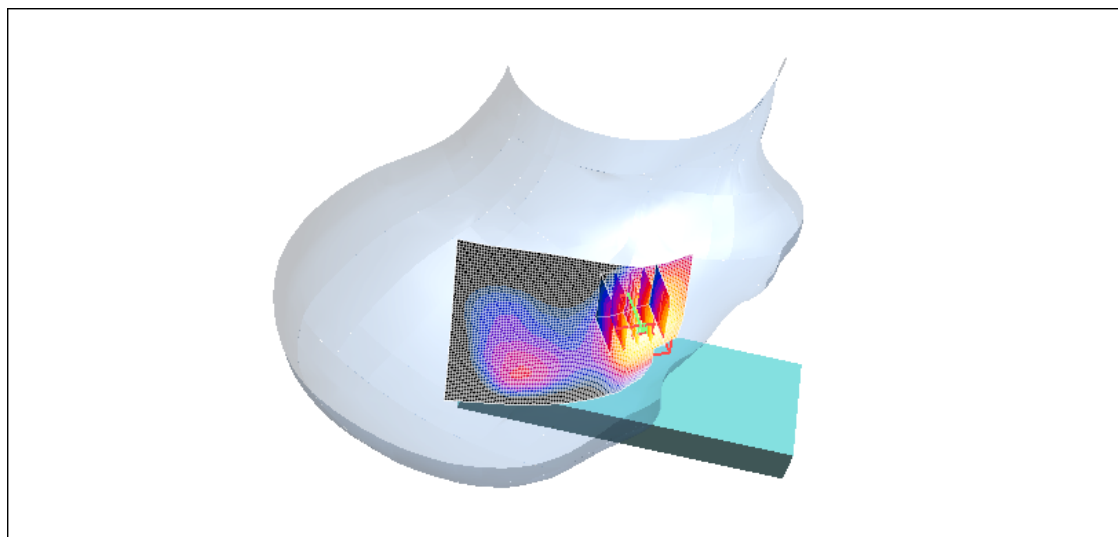
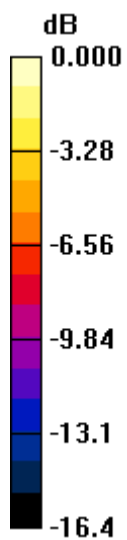
Peak SAR (extrapolated) = 0.718 W/kg

SAR(1 g) = 0.467 mW/g; SAR(10 g) = 0.274 mW/g

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

Maximum value of SAR (measured) = 0.527 mW/g

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0 dB = 0.527mW/g

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Date/Time: 6/1/2010 6:31:05 PM

Test Laboratory: RIM Testing Services

LeftHandSide_CDMA1900_low_chan_amb_temp_22.6_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1851.25 \text{ MHz}$; $\sigma = 1.39 \text{ mho/m}$; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$
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: $dx=15\text{mm}$, $dy=15\text{mm}$

[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 = 2.00 V/m ; Power Drift = -0.123 dB

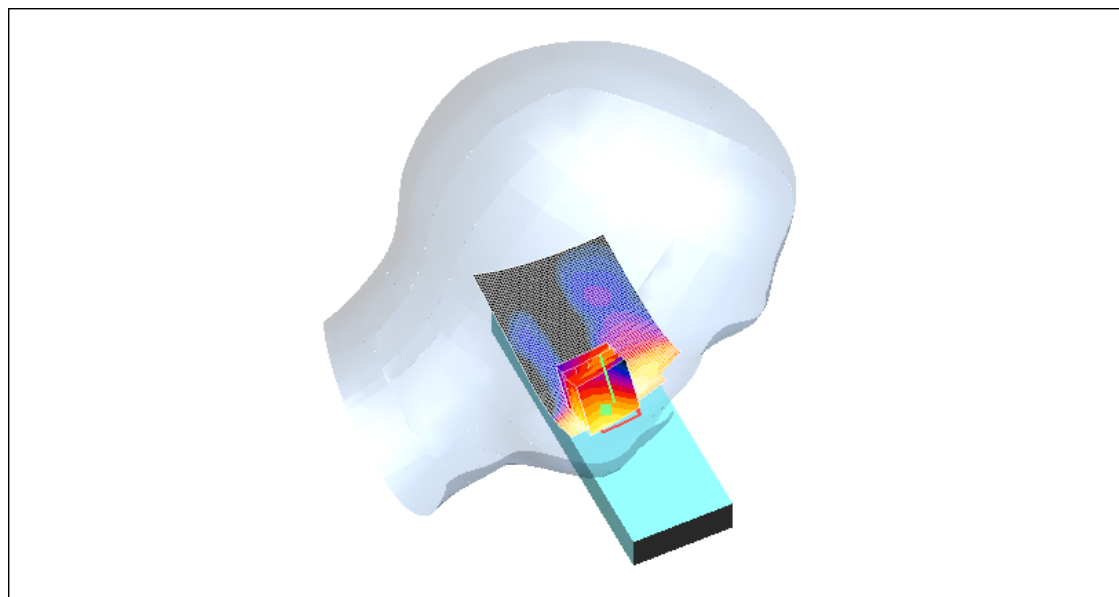
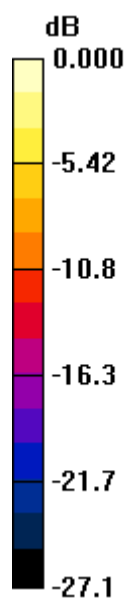
Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.901 mW/g ; SAR(10 g) = 0.499 mW/g

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

Maximum value of SAR (measured) = 0.966 mW/g

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0 dB = 0.966mW/g

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Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW

Date/Time: 6/1/2010 6:09:37 PM

Test Laboratory: RIM Testing Services

LeftHandSide_CDMA1900_mid_chan_amb_temp_22.5_liq_temp_21.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

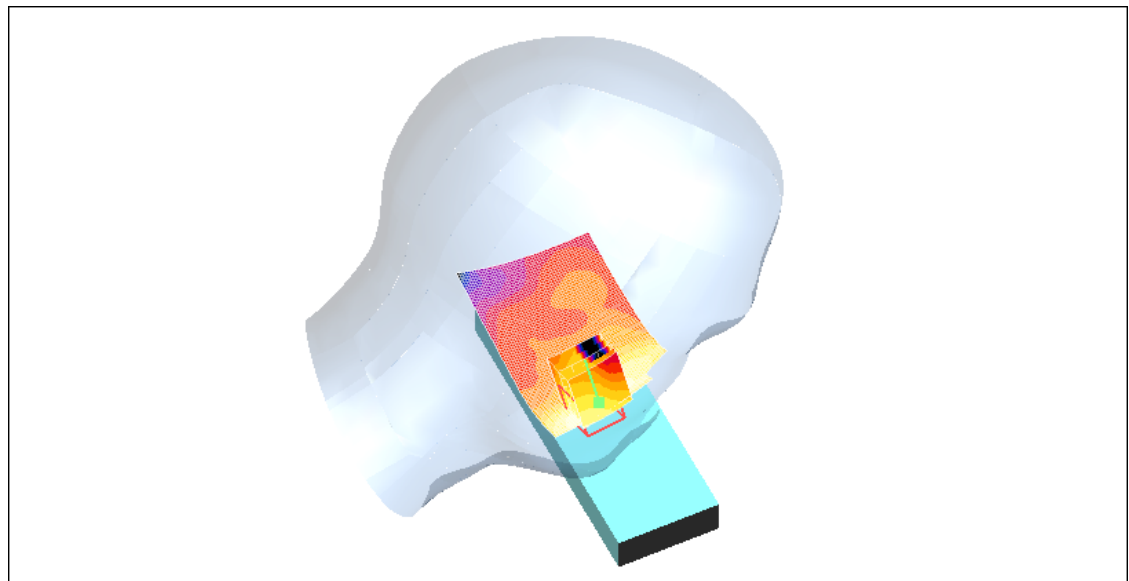
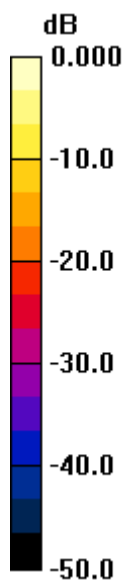
DASY4 Configuration:

- 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: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.000 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 = 2.13 V/m; Power Drift = 1.07 dB
Peak SAR (extrapolated) = 2.06 W/kg
SAR(1 g) = 0.969 mW/g; SAR(10 g) = 0.389 mW/g
Maximum value of SAR (measured) = 0.947 mW/g

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0 dB = 0.947mW/g

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Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW

Date/Time: 6/28/2010 4:18:40 PM

Test Laboratory: RIM Testing Services

File Name: [LeftHandSide_CDMA1900_mid_chan_amb_temp_22.7_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 322F4A5C
Program Name: Compliance Testing: (Left-Hand Side)

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 41$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

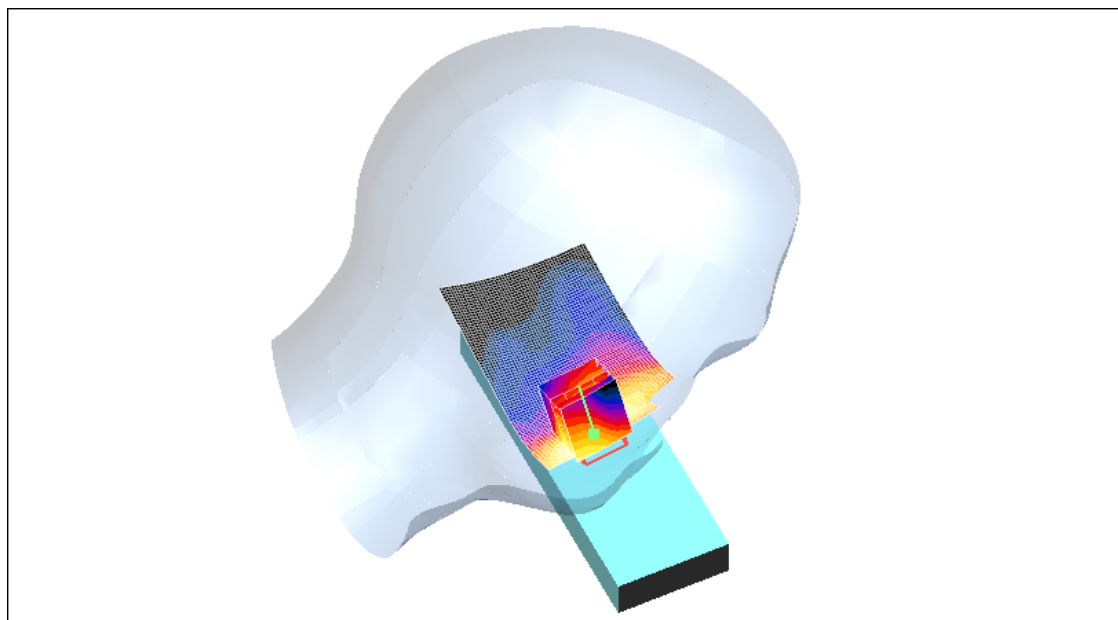
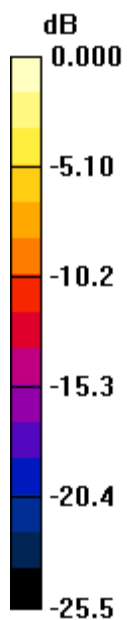
DASY4 Configuration:

- 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: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.04 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 = 1.48 V/m; Power Drift = 0.184 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.866 mW/g; SAR(10 g) = 0.468 mW/g
Maximum value of SAR (measured) = 0.935 mW/g

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0 dB = 0.935mW/g

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Date/Time: 6/1/2010 6:47:25 PM

Test Laboratory: RIM Testing Services

LeftHandSide_CDMA1900_high_chan_amb_temp_22.4_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1908.5 \text{ MHz}$; $\sigma = 1.44 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$
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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.812 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 = 2.36 V/m ; Power Drift = 0.183 dB

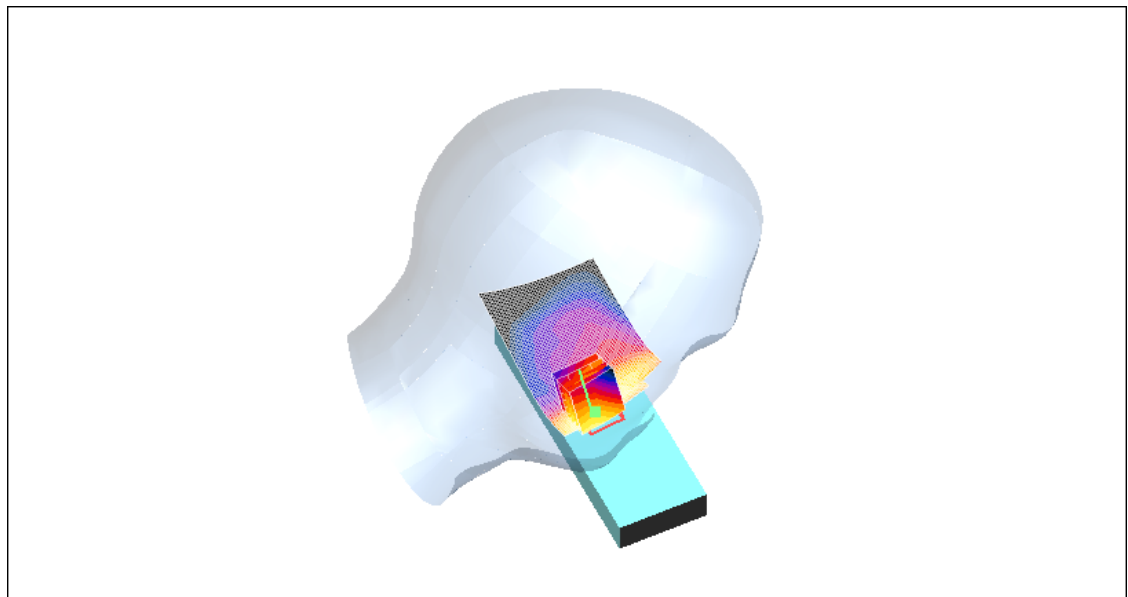
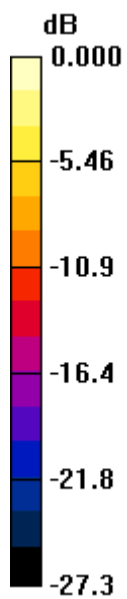
Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.706 mW/g ; SAR(10 g) = 0.374 mW/g

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

Maximum value of SAR (measured) = 0.755 mW/g

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0 dB = 0.755mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	May 19 – June 28, 2010	RTS-2581-1006-38	L6ARCU20CW	2503A-RCU20CW

Date/Time: 6/1/2010 7:04:51 PM

Test Laboratory: RIM Testing Services

**LeftHandSide_Tilt_CDMA1900_mid_chan_amb_temp_22.6_liq_temp_21
.7C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

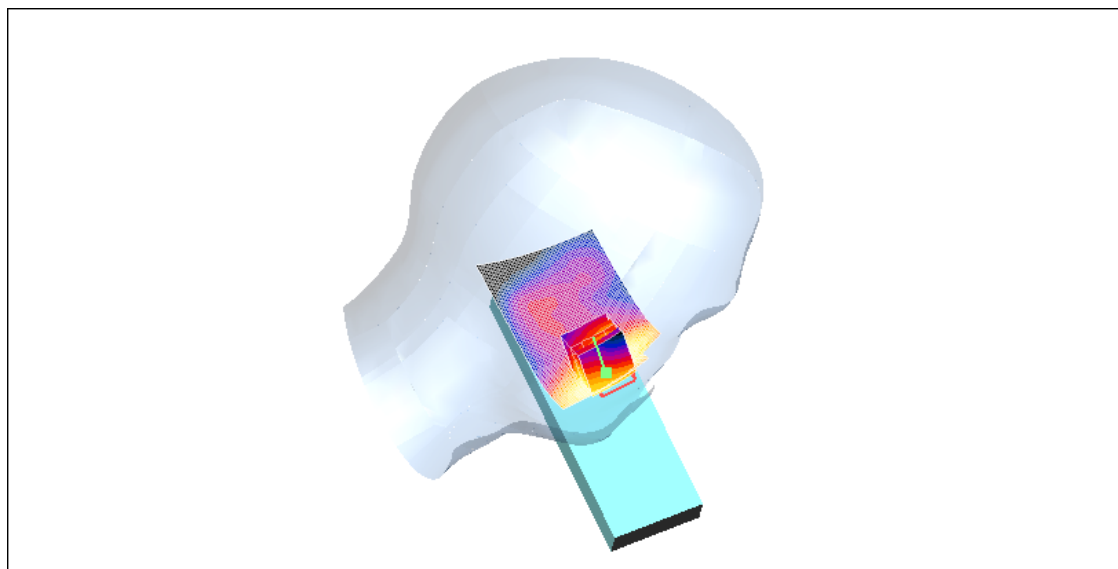
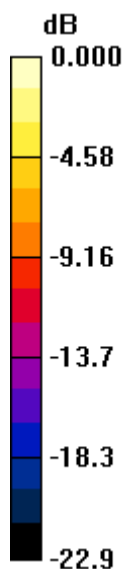
DASY4 Configuration:

- 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: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.544 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 = 3.99 V/m; Power Drift = -0.035 dB
Peak SAR (extrapolated) = 0.755 W/kg
SAR(1 g) = 0.495 mW/g; SAR(10 g) = 0.290 mW/g
Maximum value of SAR (measured) = 0.551 mW/g

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0 dB = 0.551mW/g

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Date/Time: 6/1/2010 7:40:26 PM

Test Laboratory: RIM Testing Services

Head_Flat_phantom_CDMA1900_mid_chan_amb_temp_22.7_liq_temp_21.8C

DUT: BlackBerry Smartphone_Clamshell; Type: Clamshell; Serial: 321D4094

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

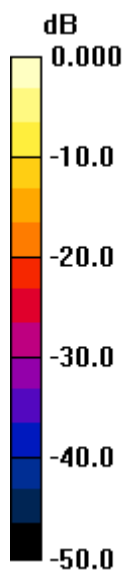
- Probe: ES3DV3 - SN3225; ConvF(5.14, 5.14, 5.14); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position - Mid_/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.826 mW/g

Touch position - Mid_/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 9.96 V/m; Power Drift = 0.059 dB
Peak SAR (extrapolated) = 1.64 W/kg
SAR(1 g) = 0.779 mW/g; SAR(10 g) = 0.345 mW/g

Maximum value of SAR (measured) = 0.701 mW/g

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0 dB = 0.701mW/g

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Date/Time: 6/28/2010 4:39:36 PM

Test Laboratory: RIM Testing Services

File Name:

[Head Flat phantom CDMA1900 mid chan amb temp 23.1 liq temp 22.8C.da4](#)

DUT: BlackBerry Smartphone_Clamshell; Type: Clamshell; Serial: 322F4A5C
Program Name: Compliance Testing: Head Flat Phantom

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 41$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

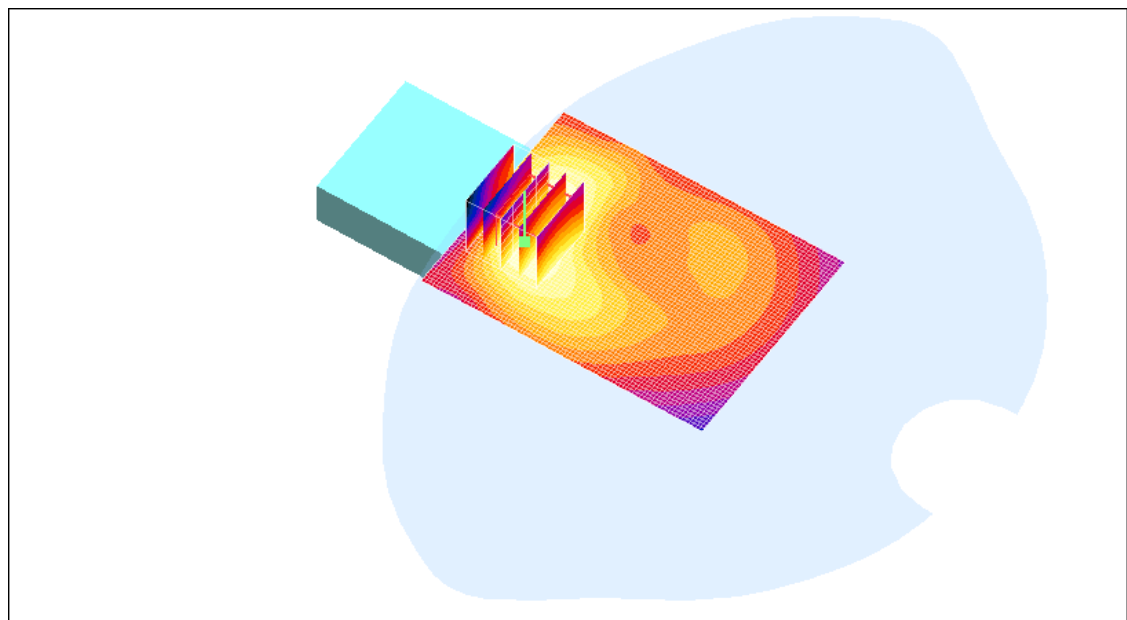
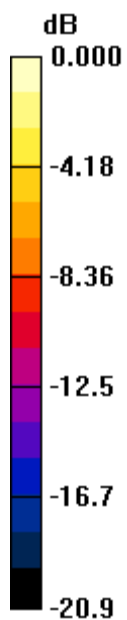
DASY4 Configuration:

- 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 - Mid_/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.811 mW/g

Touch position - Mid_/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 9.40 V/m; Power Drift = 0.091 dB
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.644 mW/g; SAR(10 g) = 0.385 mW/g
Maximum value of SAR (measured) = 0.686 mW/g

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0 dB = 0.686mW/g

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Date/Time: 5/20/2010 6:45:46 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide_802.11b_low_chan_amb_temp_23.1_liq_temp_21.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316F0C87

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.84 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

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 (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.245 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 = 1.38 V/m ; Power Drift = -0.095 dB

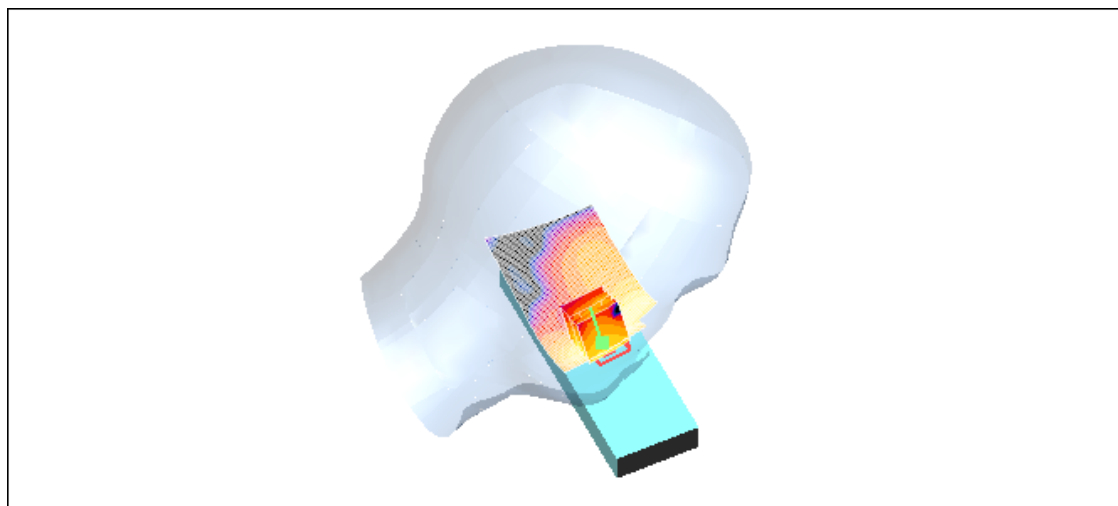
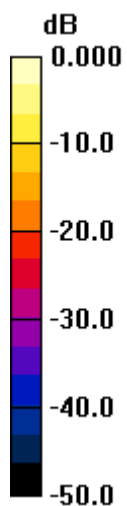
Peak SAR (extrapolated) = 0.462 W/kg

SAR(1 g) = 0.223 mW/g ; SAR(10 g) = 0.095 mW/g

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

Maximum value of SAR (measured) = 0.283 mW/g

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Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW



0 dB = 0.283mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCU21CW SAR Report			Page 40(62)
Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW

Date/Time: 5/20/2010 7:14:41 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide_802.11b_mid_chan_amb_temp_22.8_liq_temp_21.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316F0C87
Program Name: Compliance Testing: (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.88 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$
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 (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.345 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 = 1.27 V/m ; Power Drift = 2.00 dB

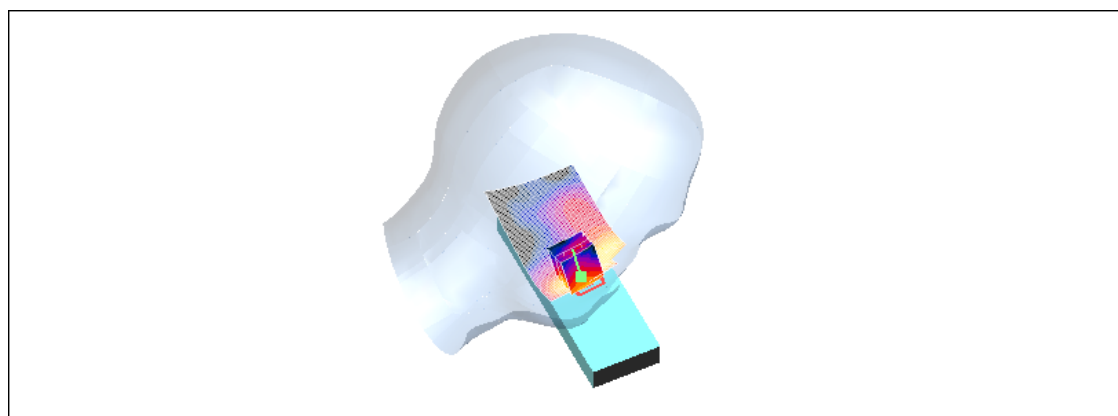
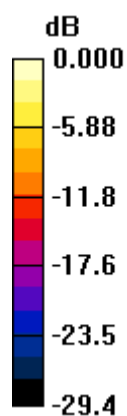
Peak SAR (extrapolated) = 0.622 W/kg

SAR(1 g) = 0.288 mW/g ; SAR(10 g) = 0.118 mW/g

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

Maximum value of SAR (measured) = 0.350 mW/g

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Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW



0 dB = 0.350mW/g

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	Appendix B for the BlackBerry® Smartphone Model RCU21CW SAR Report			42(62)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	May 19 – June 28, 2010	RTS-2581-1006-38	L6ARCU20CW	2503A-RCU20CW

Date/Time: 5/20/2010 7:59:43 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide_802.11b_high_chan_amb_temp_22.5_liq_temp_21.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316F0C87
Program Name: Compliance Testing: (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$
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 (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.308 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 = 1.30 V/m ; Power Drift = 0.713 dB

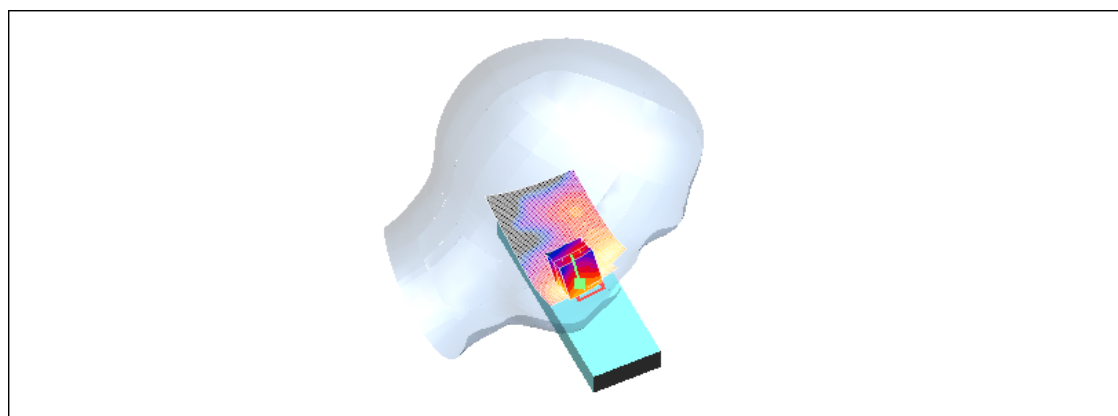
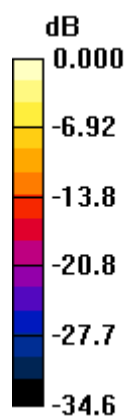
Peak SAR (extrapolated) = 0.561 W/kg

SAR(1 g) = 0.253 mW/g ; SAR(10 g) = 0.100 mW/g

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

Maximum value of SAR (measured) = 0.300 mW/g

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Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW



0 dB = 0.300mW/g

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Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW

Date/Time: 5/26/2010 6:01:15 PM

Test Laboratory: RIM Testing Services

File Name:

[LeftHandSide Tilt 802.11b_mid_chan_amb_temp_22.6_liq_temp_21.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

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 (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.051 mW/g

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

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

Reference Value = 1.28 V/m; Power Drift = 1.71 dB

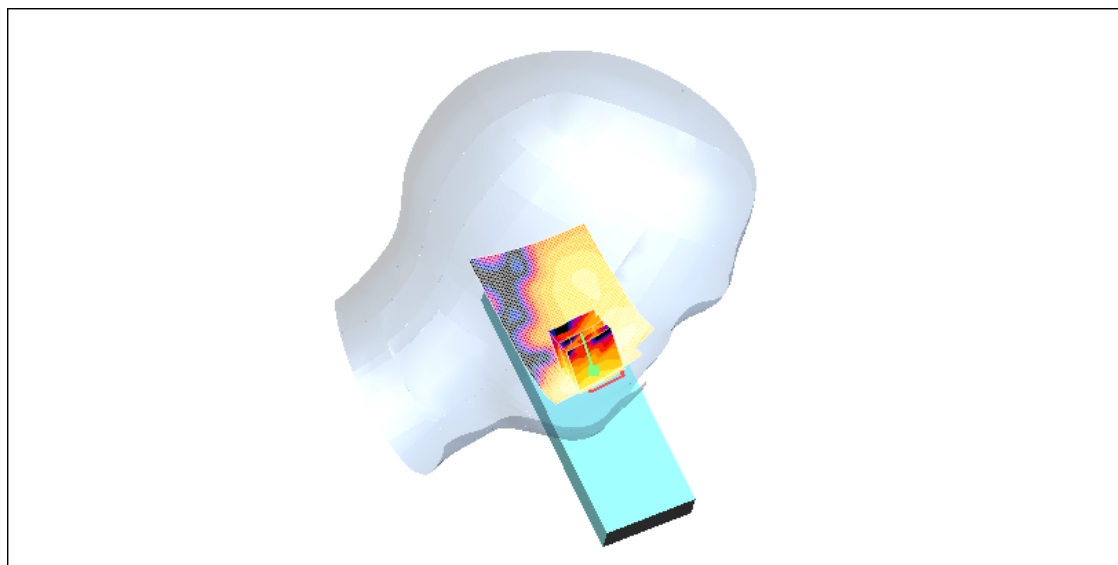
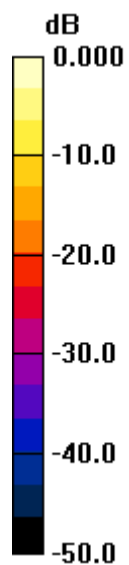
Peak SAR (extrapolated) = 0.086 W/kg

SAR(1 g) = 0.046 mW/g; SAR(10 g) = 0.022 mW/g

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

Maximum value of SAR (measured) = 0.051 mW/g

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0 dB = 0.051mW/g

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Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW

Date/Time: 5/26/2010 6:26:13 PM

Test Laboratory: RIM Testing Services

File Name: [RightHandSide_802.11b_mid_chan_amb_temp_22.0_liq_temp_21.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094
Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.84 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$
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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.191 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 = 2.47 V/m ; Power Drift = 1.41 dB

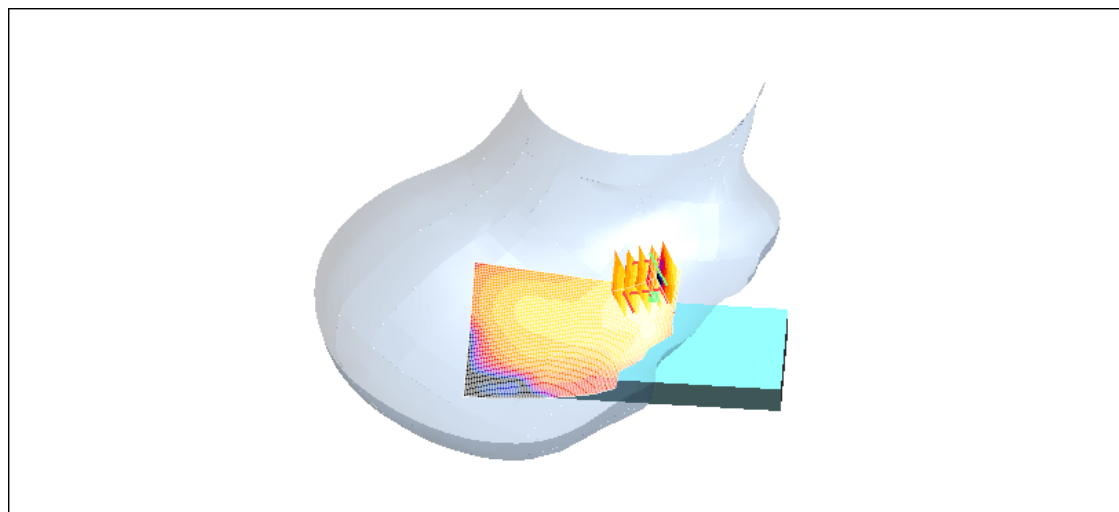
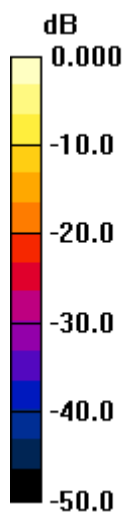
Peak SAR (extrapolated) = 0.380 W/kg

SAR(1 g) = 0.164 mW/g ; SAR(10 g) = 0.071 mW/g

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

Maximum value of SAR (measured) = 0.165 mW/g

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0 dB = 0.165mW/g

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Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW

Date/Time: 5/26/2010 6:46:02 PM

Test Laboratory: RIM Testing Services

File Name:

[RightHandSide_Tilt_802.11b_mid_chan_amb_temp_23.3_liq_temp_22.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 321D4094

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

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.84 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.049 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 = 2.40 V/m ; Power Drift = 0.087 dB

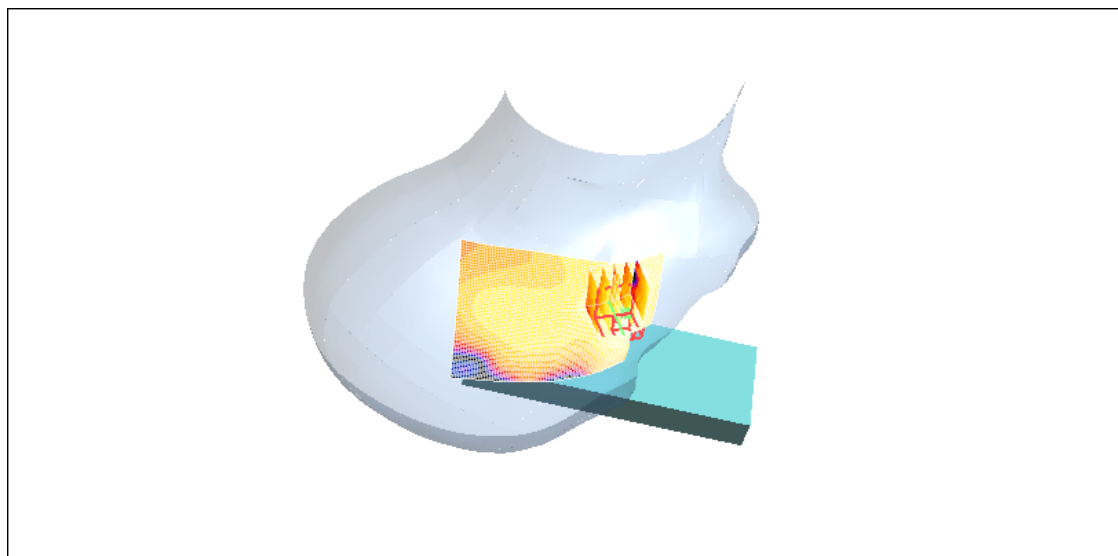
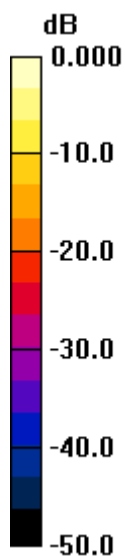
Peak SAR (extrapolated) = 0.093 W/kg

SAR(1 g) = 0.049 mW/g ; SAR(10 g) = 0.025 mW/g

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

Maximum value of SAR (measured) = 0.062 mW/g

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0 dB = 0.062mW/g

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Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW

Date/Time: 5/26/2010 10:11:38 PM

Test Laboratory: RIM Testing Services

File Name:

[Head Flat phantom 802.11b mid chan amb temp 23.2 liq temp 21.9C.da4](#)

DUT: BlackBerry Smartphone_Clamshell; Type: Clamshell; Serial: 321D4094

Program Name: Compliance Testing: Head Flat Phantom

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.84 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat 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 - Mid_/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) = 0.106 mW/g

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

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

Reference Value = 1.47 V/m; Power Drift = 1.25 dB

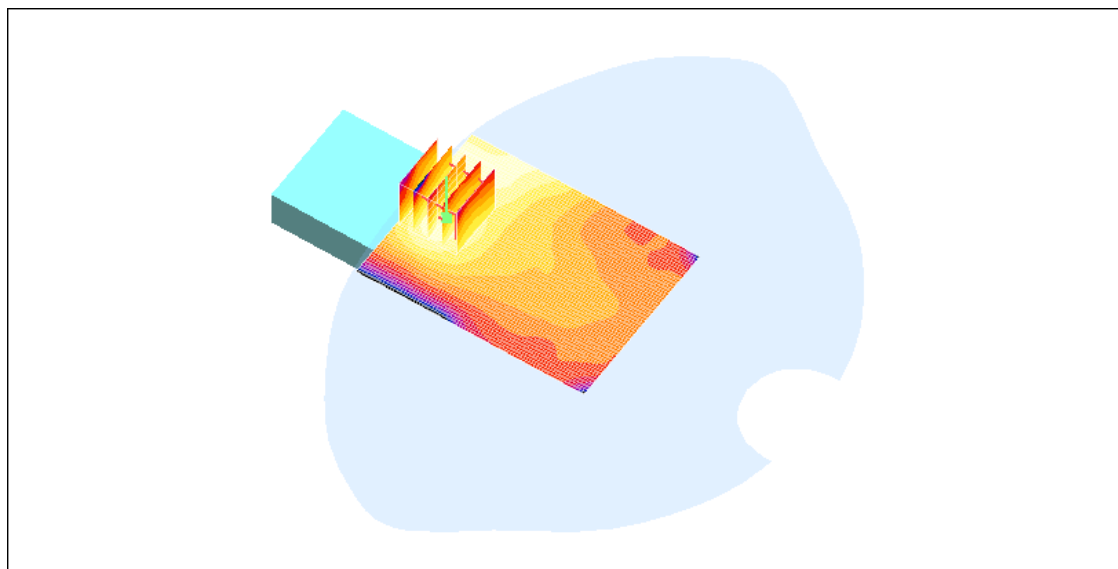
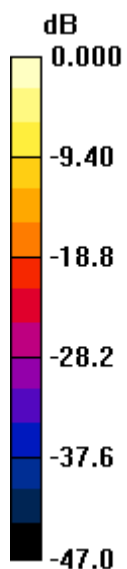
Peak SAR (extrapolated) = 0.181 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.043 mW/g

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

Maximum value of SAR (measured) = 0.103 mW/g

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Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW



0 dB = 0.103mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	May 19 – June 28, 2010	RTS-2581-1006-38	L6ARCU20CW	2503A-RCU20CW

Date/Time: 5/19/2010 11:36:27 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide_bluetooth_mid_chan_amb_temp_22.9_liq_temp_22.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316F0C87

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2441 \text{ MHz}$; $\sigma = 1.88 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$

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 (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.001 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 = 0.930 V/m ; Power Drift = 4.90 dB

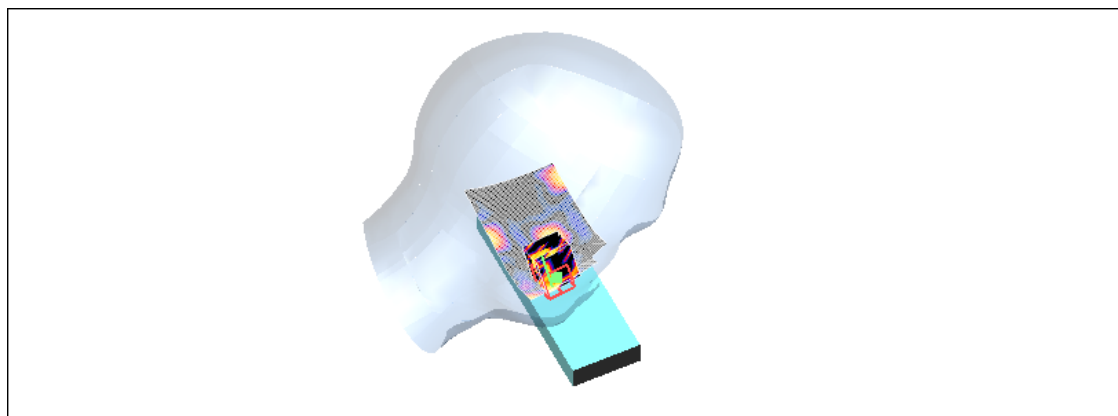
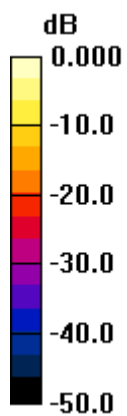
Peak SAR (extrapolated) = 0.004 W/kg

SAR(1 g) = 0.00136 mW/g ; SAR(10 g) = 0.000208 mW/g

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

Maximum value of SAR (measured) = 0.002 mW/g

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Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW



0 dB = 0.002mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RCU21CW SAR Report			Page 54(62)
Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW

Date/Time: 5/20/2010 1:55:44 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide Tilt bluetooth_mid_chan_amb_temp_21.9_liq_temp_21.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316F0C87

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

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 (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.000 mW/g

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

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

Reference Value = 0.364 V/m; Power Drift = 6.95 dB

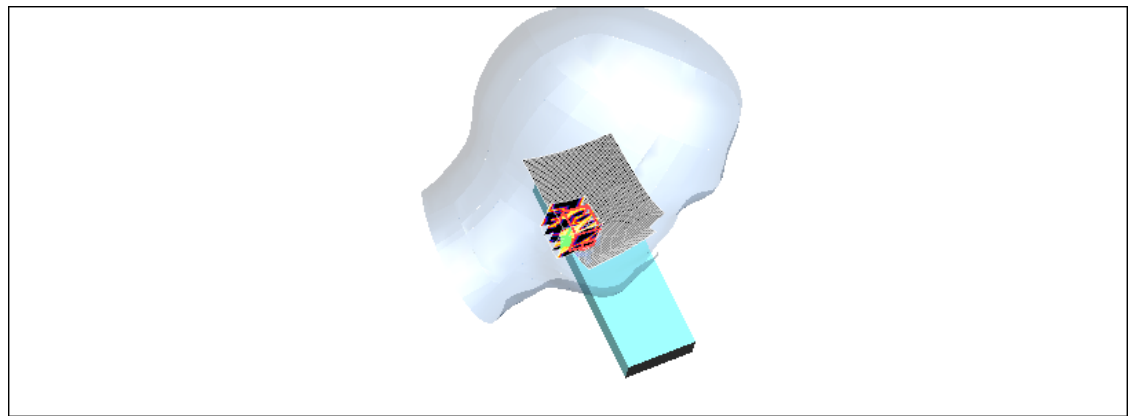
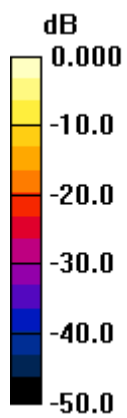
Peak SAR (extrapolated) = 0.000 W/kg

SAR(1 g) = 1.78e-007 mW/g; SAR(10 g) = 1.98e-008 mW/g

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

Maximum value of SAR (measured) = 0.001 mW/g

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Author Data Andrew Becker	Dates of Test May 19 – June 28, 2010	Test Report No RTS-2581-1006-38	FCC ID: L6ARCU20CW	IC ID 2503A-RCU20CW



0 dB = 0.001mW/g

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Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	May 19 – June 28, 2010	RTS-2581-1006-38	L6ARCU20CW	2503A-RCU20CW

Date/Time: 5/20/2010 12:52:13 AM

Test Laboratory: RIM TESTING SERVICES

File Name: [RightHandSide_bluetooth_mid_chan_amb_temp_23.1_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316F0C87

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

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2441 \text{ MHz}$; $\sigma = 1.88 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.000 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 = 0.832 V/m; Power Drift = 0.433 dB

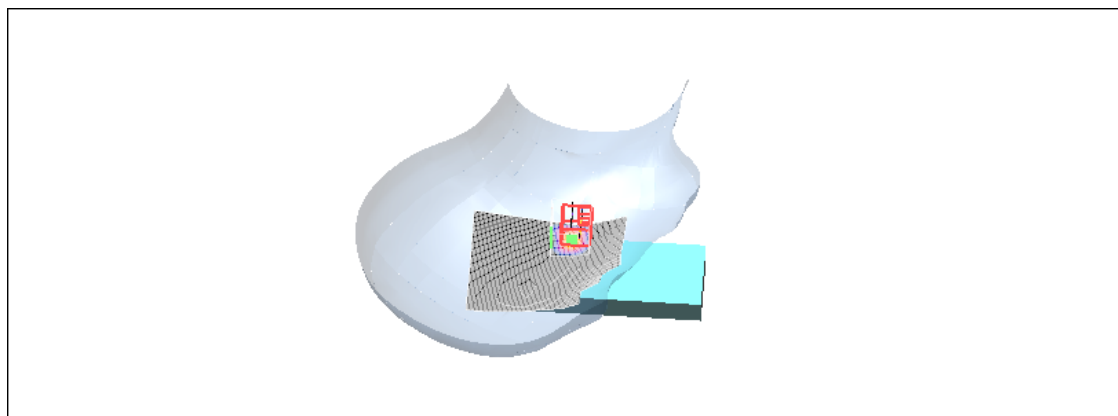
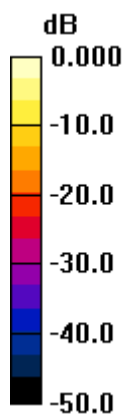
Peak SAR (extrapolated) = 0.000 W/kg

SAR(1 g) = 5.62e-007 mW/g; SAR(10 g) = 6.53e-008 mW/g

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

Maximum value of SAR (measured) = 0.001 mW/g

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0 dB = 0.001mW/g

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Date/Time: 5/20/2010 1:16:43 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide_Tilt bluetooth mid chan amb temp 23.4 liq temp 22.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 316F0C87

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

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2441 \text{ MHz}$; $\sigma = 1.88 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.000 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 = 0.649 V/m ; Power Drift = 2.61 dB

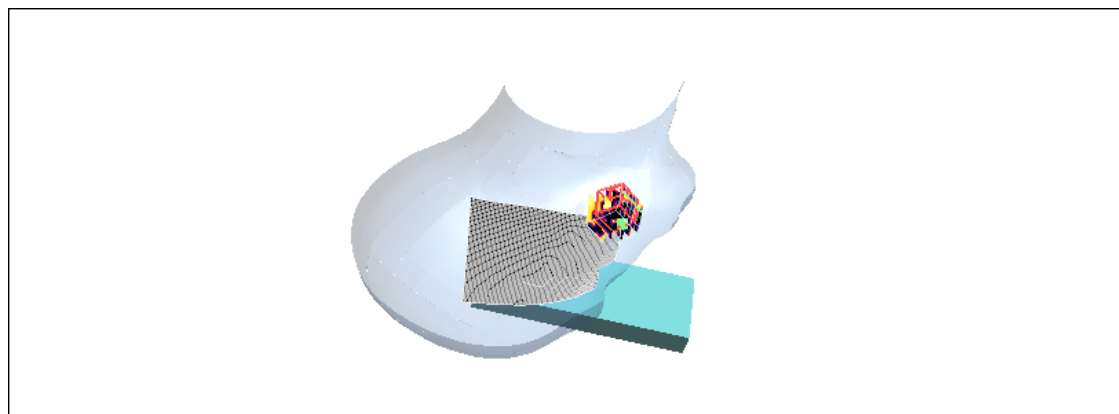
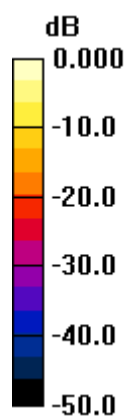
Peak SAR (extrapolated) = 0.001 W/kg

SAR(1 g) = $1.56\text{e-}005 \text{ mW/g}$; SAR(10 g) = $2.3\text{e-}006 \text{ mW/g}$

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

Maximum value of SAR (measured) = 0.001 mW/g

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0 dB = 0.001mW/g

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Date/Time: 5/20/2010 11:31:19 AM

Test Laboratory: RIM Testing Services

Head_Flat_phantom_Bluetooth_mid_chan_amb_temp_22_8_liq_temp_2

2.1C

DUT: BlackBerry Smartphone_Clamshell; Type: Clamshell; Serial: 316F0C87

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2441 \text{ MHz}$; $\sigma = 1.88 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

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 - Mid_/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) = 0.000 mW/g

Touch position - Mid_/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.747 V/m; Power Drift = 0.660 dB

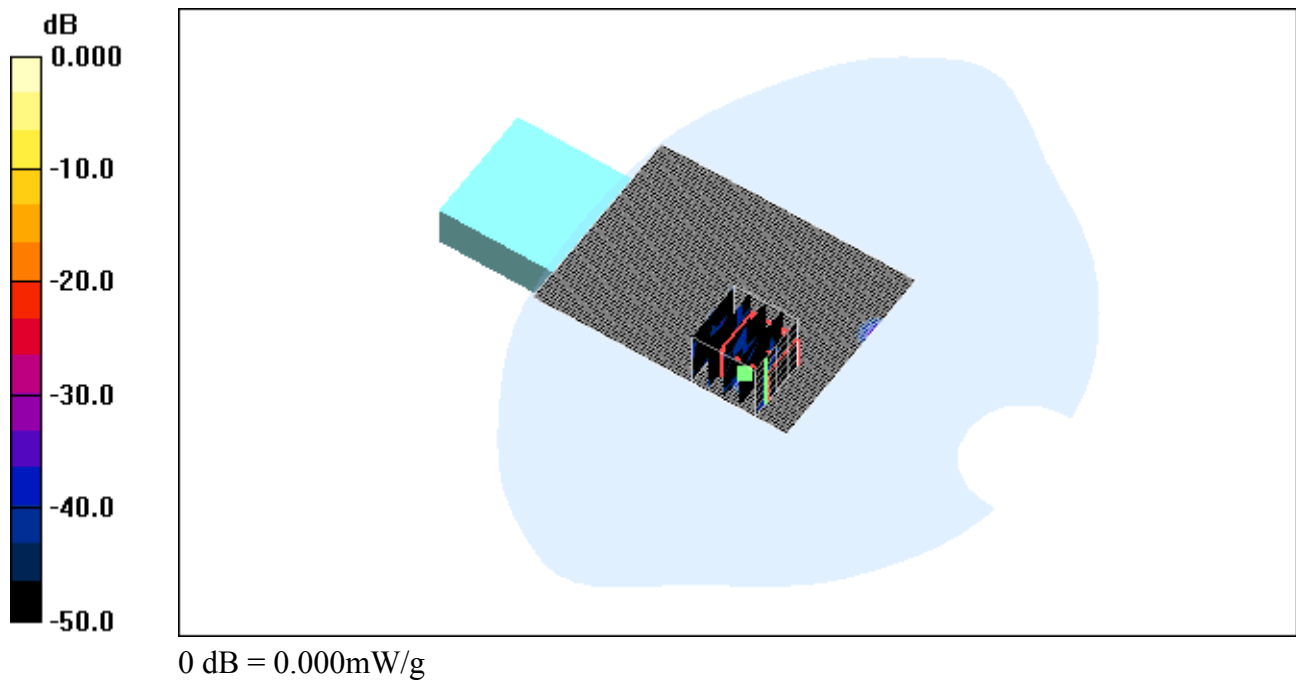
Peak SAR (extrapolated) = 0.000 W/kg

SAR(1 g) = 1.83e-006 mW/g; SAR(10 g) = 2.61e-007 mW/g

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

Maximum value of SAR (measured) = 0.000 mW/g

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Z axis plots for the worst case head worn configuration:

