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APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Date/Time: 4/29/2010 10:10:24 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_GPRS850_mid_chan_amb_temp_23.0C_liq_tem p_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.956 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.686 mW/g

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

Reference Value = 27.0 V/m ; Power Drift = -0.071 dB

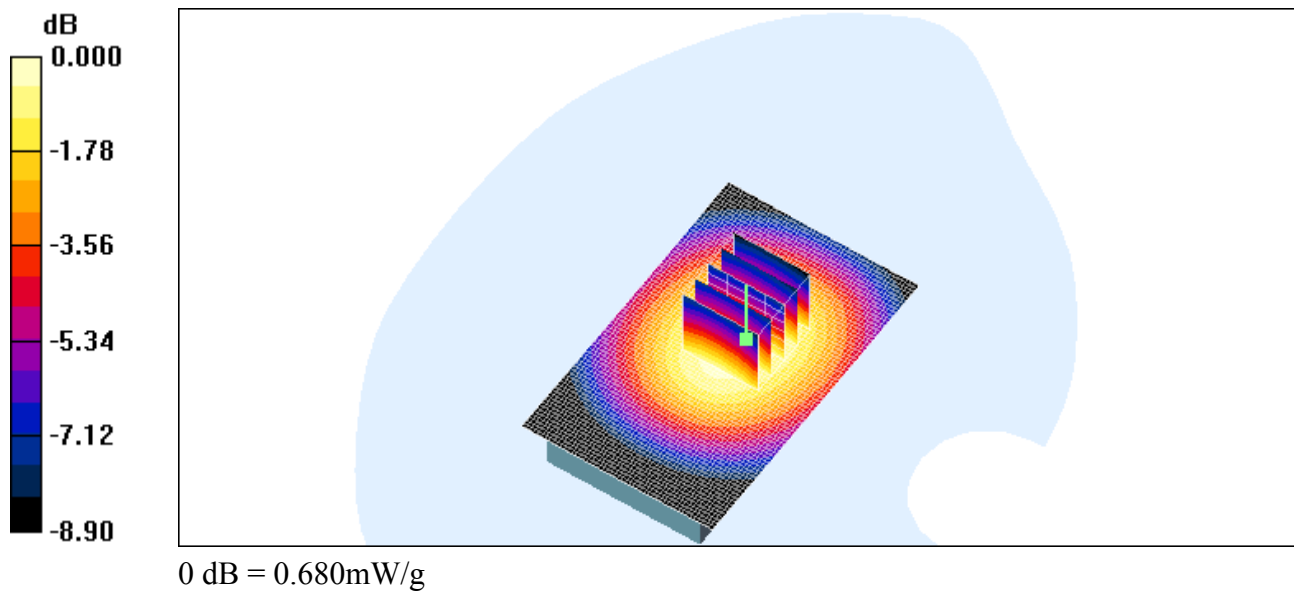
Peak SAR (extrapolated) = 0.827 W/kg

SAR(1 g) = 0.644 mW/g ; SAR(10 g) = 0.471 mW/g

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

Maximum value of SAR (measured) = 0.680 mW/g

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Date/Time: 4/29/2010 10:24:20 AM

Test Laboratory: RIM Testing Services

Horizontal_Holster_Back_GPRS850_mid_chan_amb_temp_23.1C_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.956 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.693 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.7 V/m; Power Drift = -0.030 dB

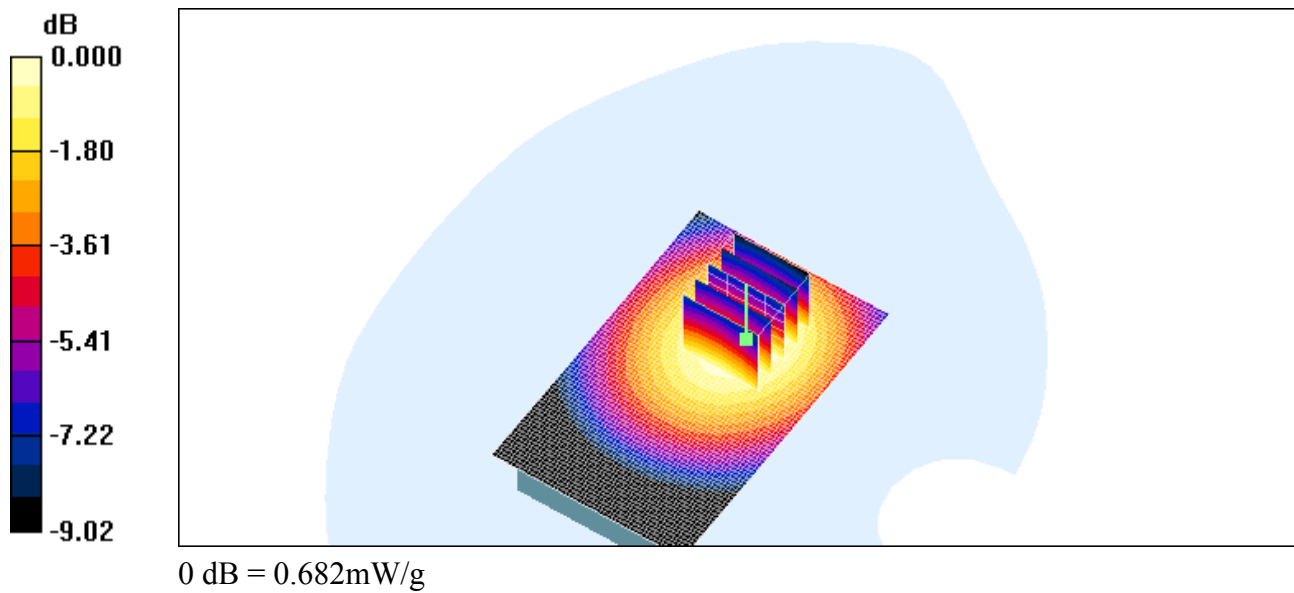
Peak SAR (extrapolated) = 0.831 W/kg

SAR(1 g) = 0.650 mW/g; SAR(10 g) = 0.475 mW/g

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

Maximum value of SAR (measured) = 0.682 mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 4/29/2010 10:40:16 AM

Test Laboratory: RIM Testing Services

Horizontal_Holster_Front_GPRS850_mid_chan_amb_temp_23.2C_liq_temper_21.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.956 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.494 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.7 V/m; Power Drift = -0.051 dB

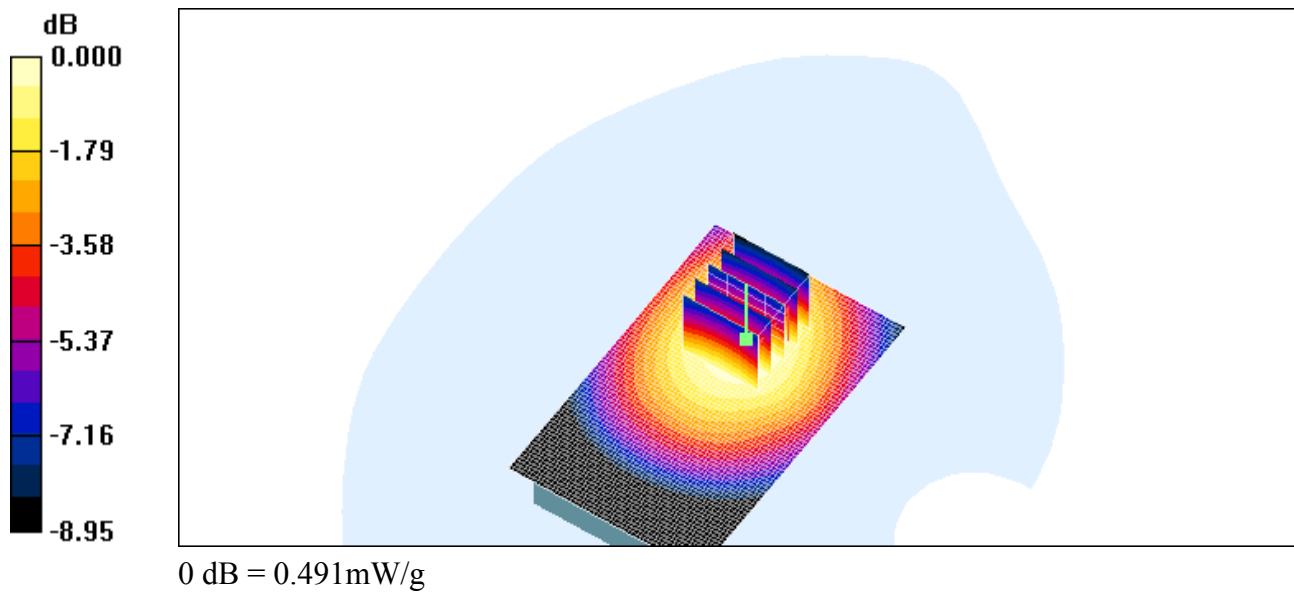
Peak SAR (extrapolated) = 0.602 W/kg

SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.342 mW/g

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

Maximum value of SAR (measured) = 0.491 mW/g

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Date/Time: 4/29/2010 10:58:10 AM

Test Laboratory: RIM Testing Services

**Horizontal_Holster_Back_HS#2_GPRS850_mid_chan_amb_temp_23.2
C_liq_temp_21.7C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.956 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.538 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.8 V/m; Power Drift = -0.072 dB

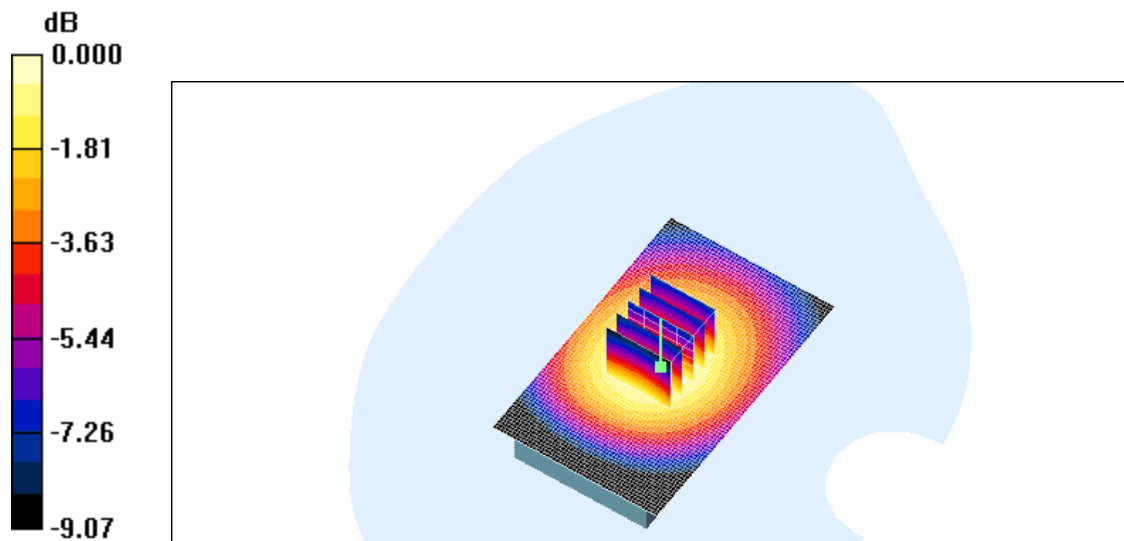
Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.503 mW/g; SAR(10 g) = 0.367 mW/g

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

Maximum value of SAR (measured) = 0.531 mW/g

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0 dB = 0.531mW/g

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Date/Time: 4/29/2010 11:16:59 AM

Test Laboratory: RIM Testing Services

25mm_Spacer_Back_GPRS850_mid_chan_amb_temp_23.2C_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.956 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.468 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.9 V/m; Power Drift = 0.019 dB

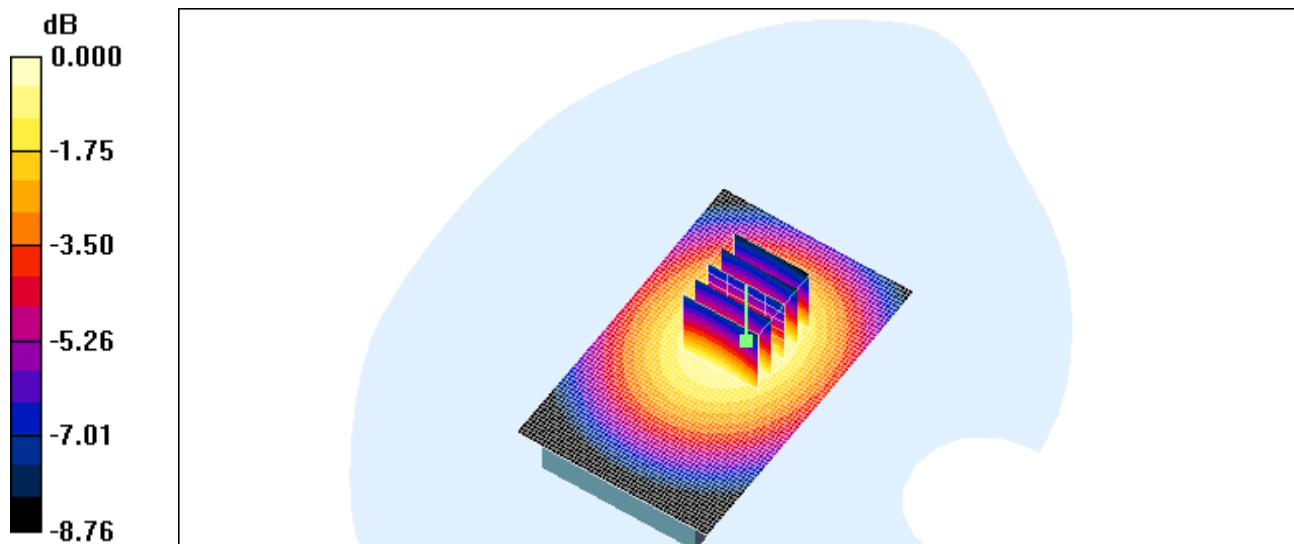
Peak SAR (extrapolated) = 0.574 W/kg

SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.324 mW/g

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

Maximum value of SAR (measured) = 0.469 mW/g

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0 dB = 0.469mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 4/22/2010 1:08:43 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back UMTS Band V low_chan_amb_temp_23.4C_liq_temp_22.8C_da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Program Name: Compliance Testing: (Body worn)

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.957 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.690 mW/g

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

Reference Value = 25.8 V/m ; Power Drift = -0.044 dB

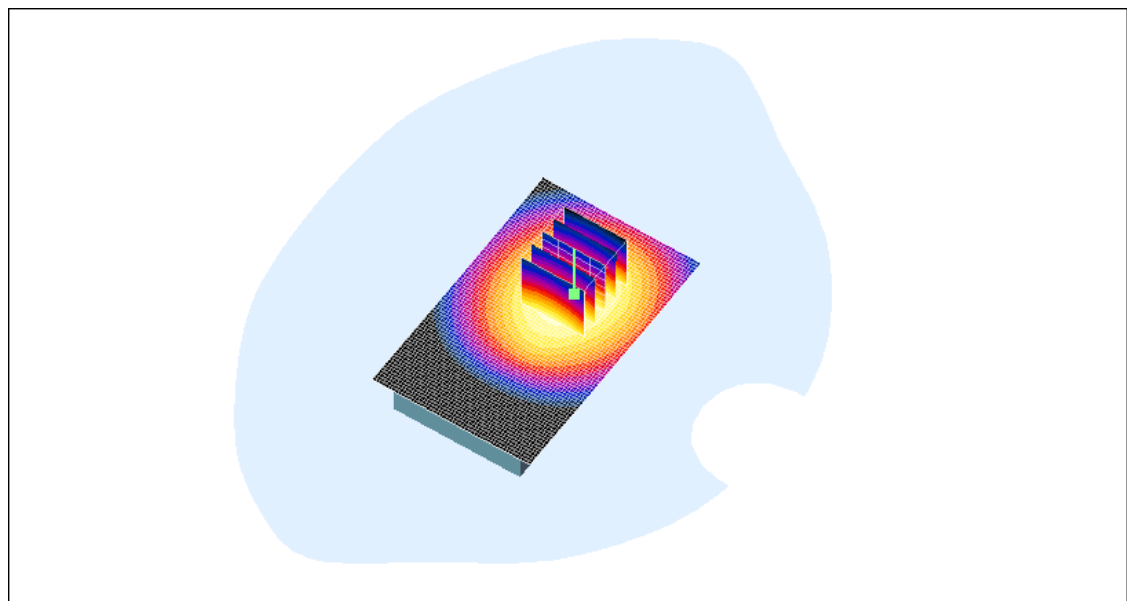
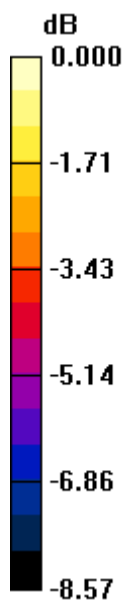
Peak SAR (extrapolated) = 0.833 W/kg

SAR(1 g) = 0.650 mW/g ; SAR(10 g) = 0.478 mW/g

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

Maximum value of SAR (measured) = 0.687 mW/g

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0 dB = 0.687mW/g

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Date/Time: 4/22/2010 1:26:22 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back UMTS Band V mid chan amb temp 23.9C liq temp 22.9C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Program Name: Compliance Testing: (Body worn)

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.4 \text{ MHz}$; $\sigma = 0.956 \text{ mho/m}$; $\epsilon_r = 55.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.650 mW/g

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

Reference Value = 25.1 V/m ; Power Drift = -0.002 dB

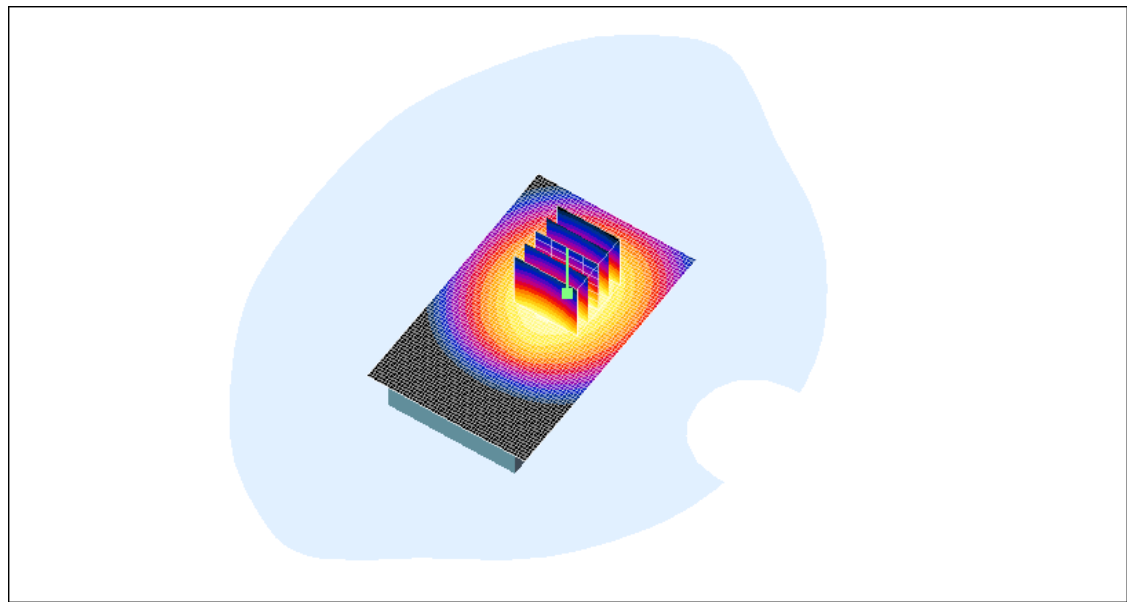
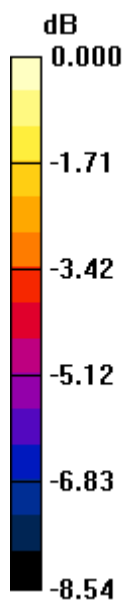
Peak SAR (extrapolated) = 0.785 W/kg

SAR(1 g) = 0.611 mW/g ; SAR(10 g) = 0.449 mW/g

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

Maximum value of SAR (measured) = 0.648 mW/g

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0 dB = 0.648mW/g

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Date/Time: 4/22/2010 1:39:39 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back UMTS Band V high chan amb temp 23.9C liq temp 22.9C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Program Name: Compliance Testing: (Body worn)

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 846.6 \text{ MHz}$; $\sigma = 0.965 \text{ mho/m}$; $\epsilon_r = 54.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.611 mW/g

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

Reference Value = 24.4 V/m ; Power Drift = 0.003 dB

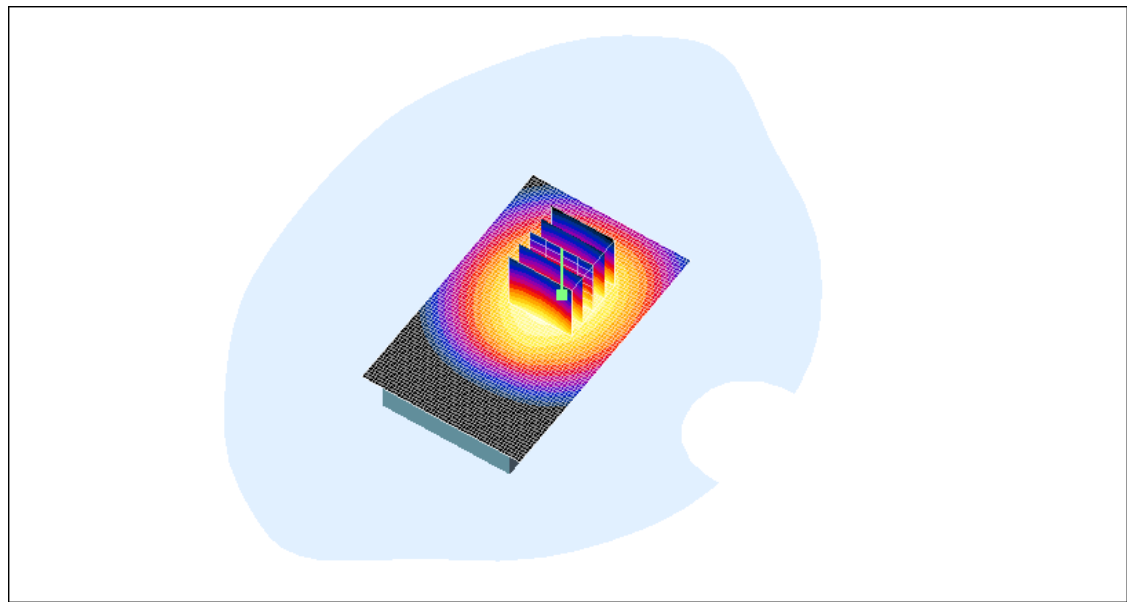
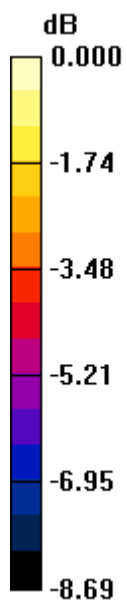
Peak SAR (extrapolated) = 0.741 W/kg

SAR(1 g) = 0.577 mW/g ; SAR(10 g) = 0.423 mW/g

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

Maximum value of SAR (measured) = 0.610 mW/g

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0 dB = 0.610mW/g

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Date/Time: 4/22/2010 5:53:26 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back UMTS Band V low chan amb temp 23.5C liq temp 22.0 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Program Name: Compliance Testing: (Body worn)

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.957 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.766 mW/g

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

Reference Value = 8.06 V/m; Power Drift = -0.094 dB

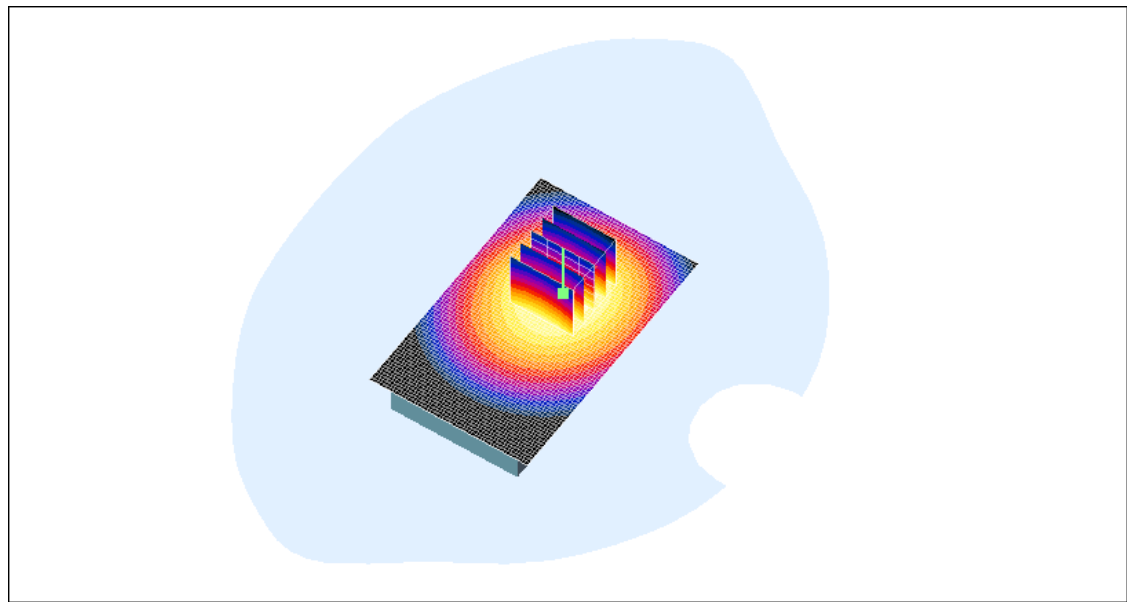
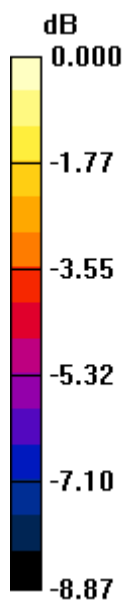
Peak SAR (extrapolated) = 0.958 W/kg

SAR(1 g) = 0.720 mW/g; SAR(10 g) = 0.523 mW/g

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

Maximum value of SAR (measured) = 0.763 mW/g

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0 dB = 0.763mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 4/22/2010 6:13:51 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Front UMTS Band V low chan amb temp 23.0C liq temp 21.9 C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Program Name: Compliance Testing: (Body worn)

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.957 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.553 mW/g

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

Reference Value = 6.40 V/m; Power Drift = -0.039 dB

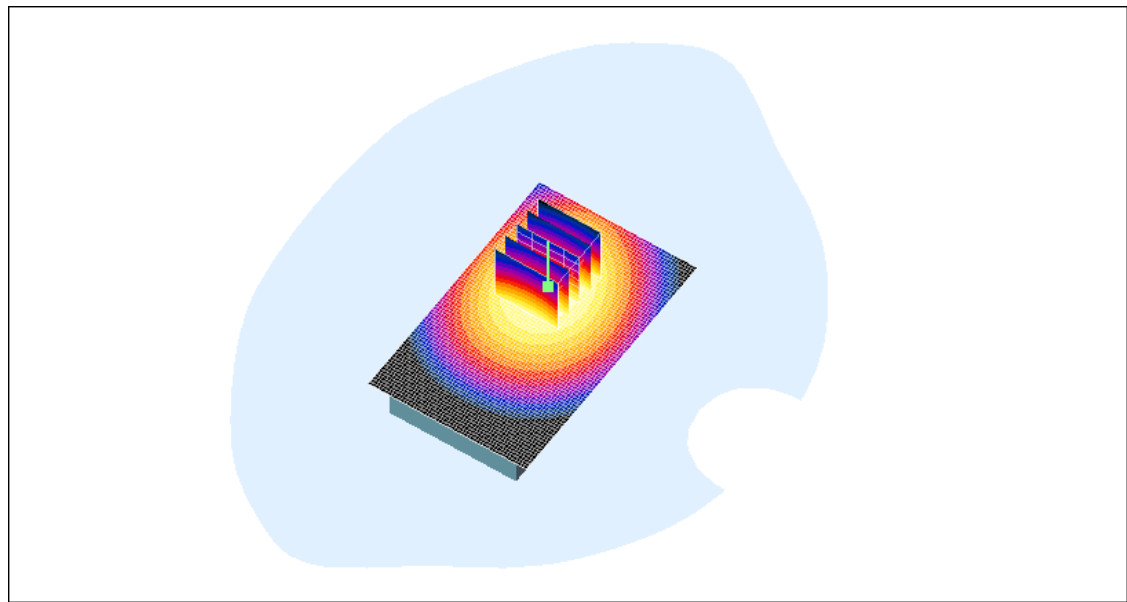
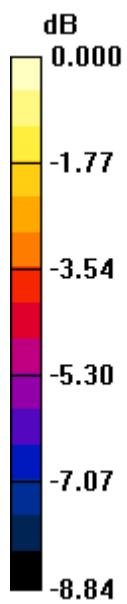
Peak SAR (extrapolated) = 0.676 W/kg

SAR(1 g) = 0.523 mW/g; SAR(10 g) = 0.386 mW/g

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

Maximum value of SAR (measured) = 0.553 mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW



0 dB = 0.553mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 4/22/2010 6:55:31 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#1 UMTS Band V low chan amb temp 23.1C liq temp 21.9C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Program Name: Compliance Testing: (Body worn)

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.957 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.511 mW/g

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

Reference Value = 7.23 V/m ; Power Drift = 0.038 dB

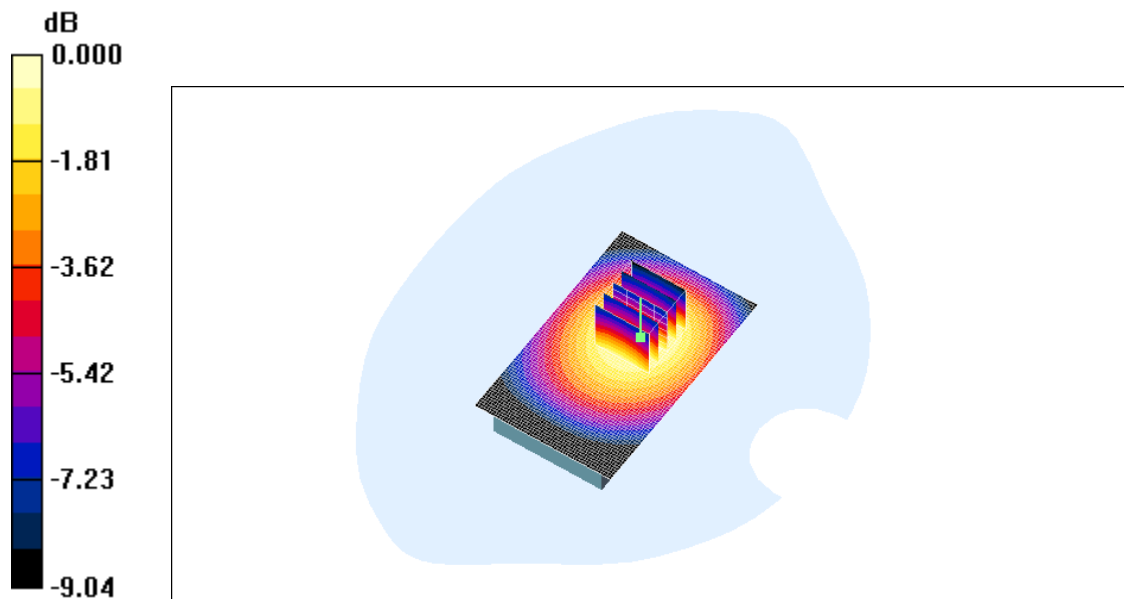
Peak SAR (extrapolated) = 0.627 W/kg

SAR(1 g) = 0.481 mW/g ; SAR(10 g) = 0.350 mW/g

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

Maximum value of SAR (measured) = 0.511 mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW



0 dB = 0.511mW/g

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Date/Time: 4/22/2010 7:27:22 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#2 UMTS Band V low chan amb temp 23.2C liq temp 22.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Program Name: Compliance Testing: (Body worn)

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.957 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.541 mW/g

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

Reference Value = 8.17 V/m ; Power Drift = -0.008 dB

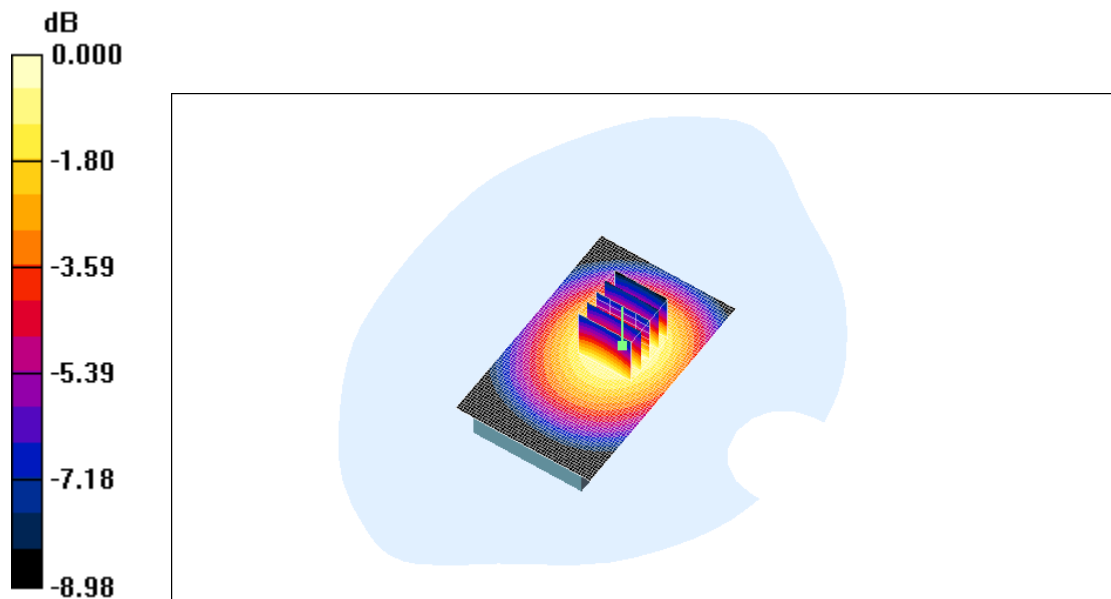
Peak SAR (extrapolated) = 0.659 W/kg

SAR(1 g) = 0.507 mW/g ; SAR(10 g) = 0.370 mW/g

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

Maximum value of SAR (measured) = 0.538 mW/g

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0 dB = 0.538mW/g

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Date/Time: 4/22/2010 7:41:56 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#3 UMTS Band V low chan amb temp 23.2C liq temp 22.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Program Name: Compliance Testing: (Body worn)

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.957 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.473 mW/g

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

Reference Value = 6.62 V/m ; Power Drift = -0.071 dB

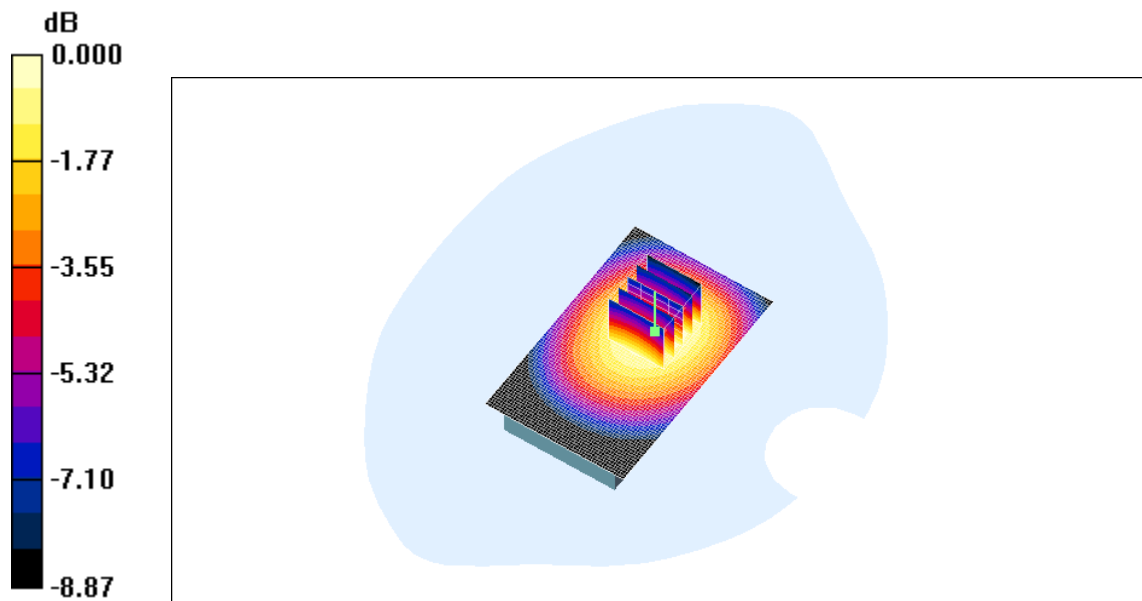
Peak SAR (extrapolated) = 0.571 W/kg

SAR(1 g) = 0.442 mW/g ; SAR(10 g) = 0.325 mW/g

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

Maximum value of SAR (measured) = 0.467 mW/g

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0 dB = 0.467mW/g

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Date/Time: 4/22/2010 7:57:48 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[25mm Spacer UMTS Band V low chan amb temp 22.8C liq temp 21.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Program Name: Compliance Testing: (Body worn)

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.957 \text{ mho/m}$; $\epsilon_r = 55.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.97, 5.97, 5.97); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.524 mW/g

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

Reference Value = 8.79 V/m ; Power Drift = -0.073 dB

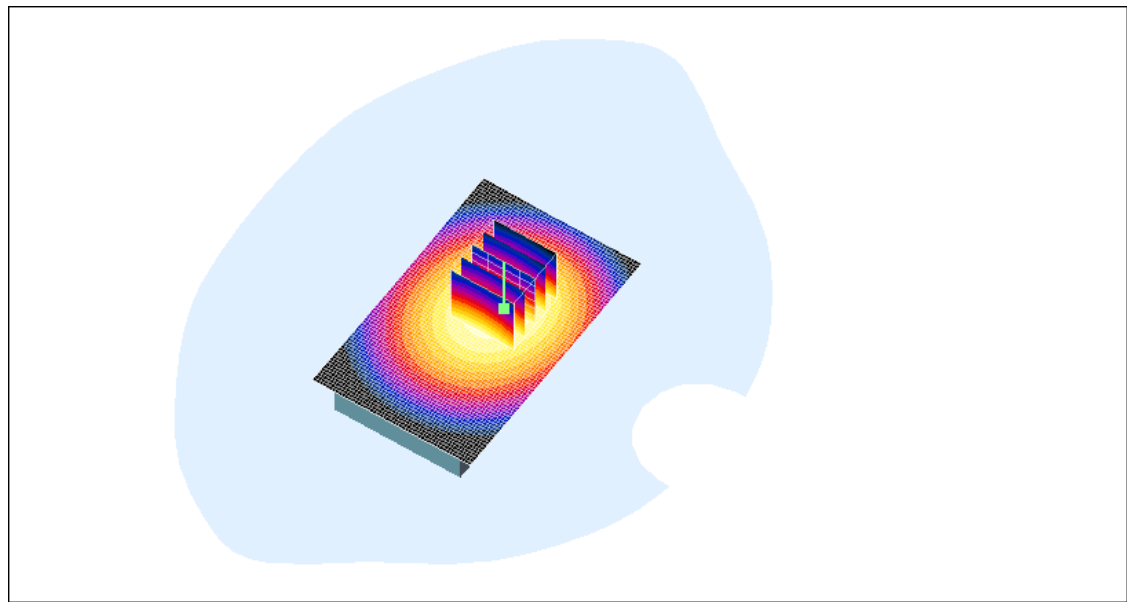
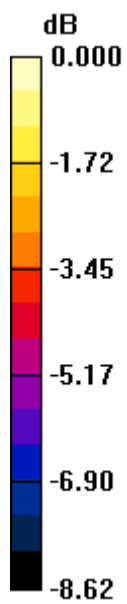
Peak SAR (extrapolated) = 0.633 W/kg

SAR(1 g) = 0.492 mW/g ; SAR(10 g) = 0.364 mW/g

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

Maximum value of SAR (measured) = 0.520 mW/g

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0 dB = 0.520mW/g

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Date/Time: 5/3/2010 11:41:58 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back GPRS1900 mid chan amb temp 22.6C liq temp 21.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 22163EE1

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.6 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

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

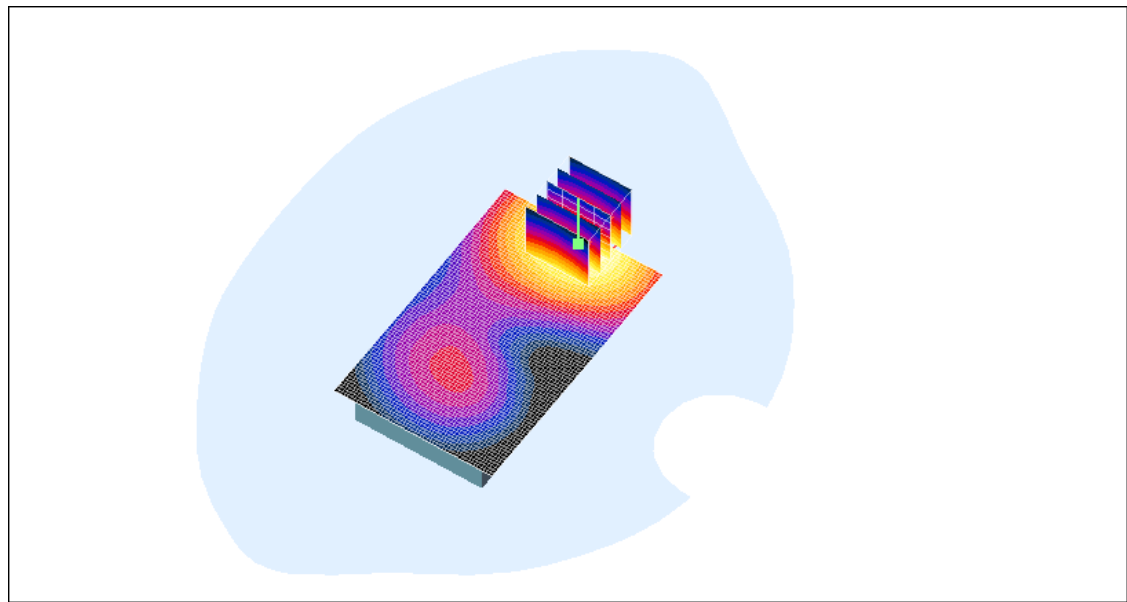
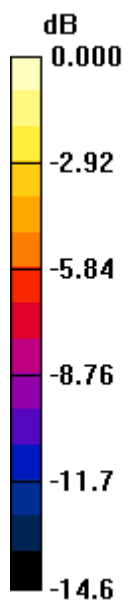
Reference Value = 5.11 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.557 W/kg

SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.224 mW/g

Maximum value of SAR (measured) = 0.400 mW/g

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0 dB = 0.400mW/g

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Date/Time: 5/4/2010 12:01:09 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_GPRS1900_mid_chan_amb_temp_22.6C_liq_temp_21.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.6 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

Maximum value of SAR (interpolated) = 0.444 mW/g

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

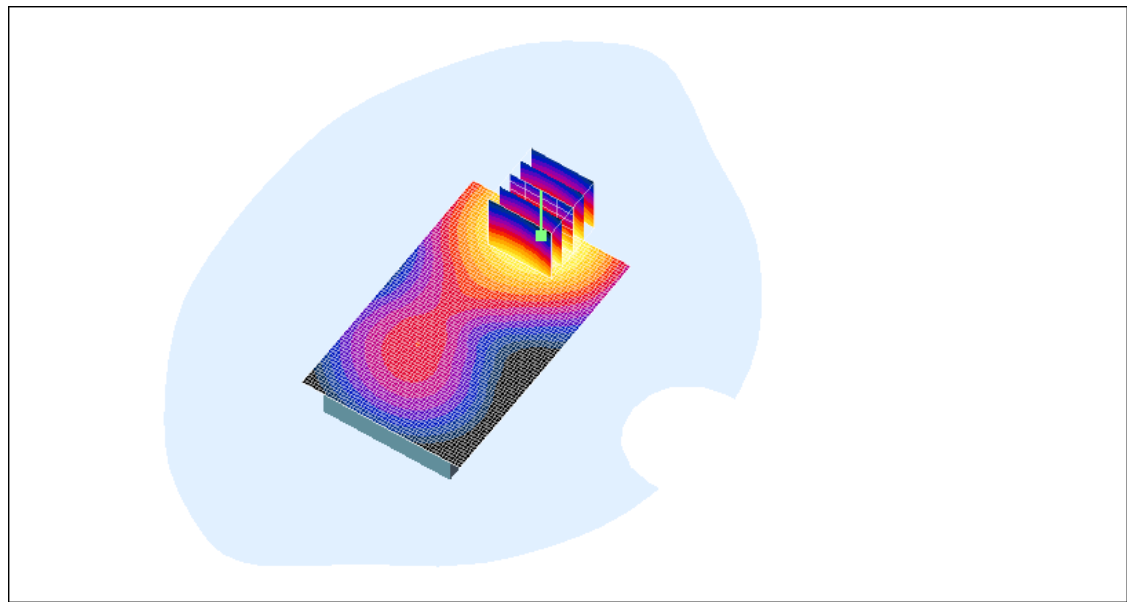
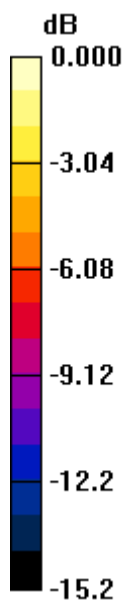
Reference Value = 6.31 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 0.607 W/kg

SAR(1 g) = 0.401 mW/g; SAR(10 g) = 0.246 mW/g

Maximum value of SAR (measured) = 0.435 mW/g

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0 dB = 0.435mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 5/4/2010 12:19:22 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Front_GPRS1900_mid_chan_amb_temp_22.1C_liq_temp_20.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.6 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

Maximum value of SAR (interpolated) = 0.254 mW/g

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

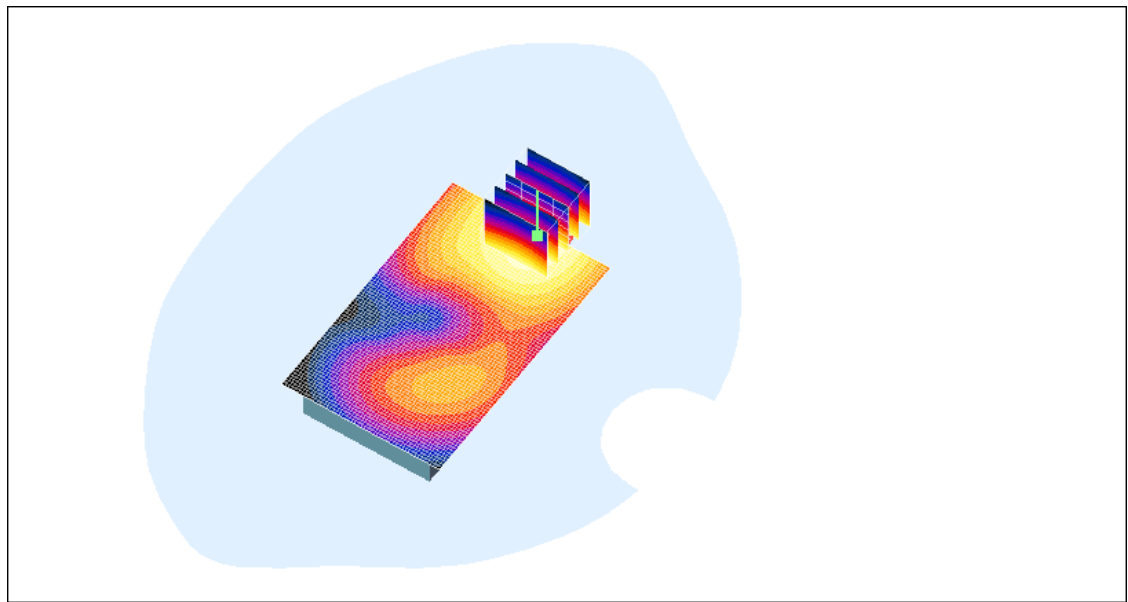
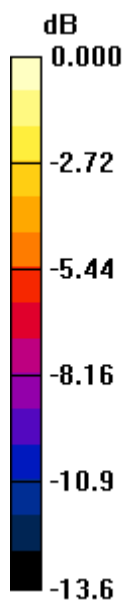
Reference Value = 4.30 V/m; Power Drift = 0.136 dB

Peak SAR (extrapolated) = 0.346 W/kg

SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.150 mW/g

Maximum value of SAR (measured) = 0.253 mW/g

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0 dB = 0.253mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 5/4/2010 12:38:44 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal Holster Back HS#2 GPRS1900 mid chan amb temp 22.1C liq temp 20.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.6 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

Maximum value of SAR (interpolated) = 0.415 mW/g

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

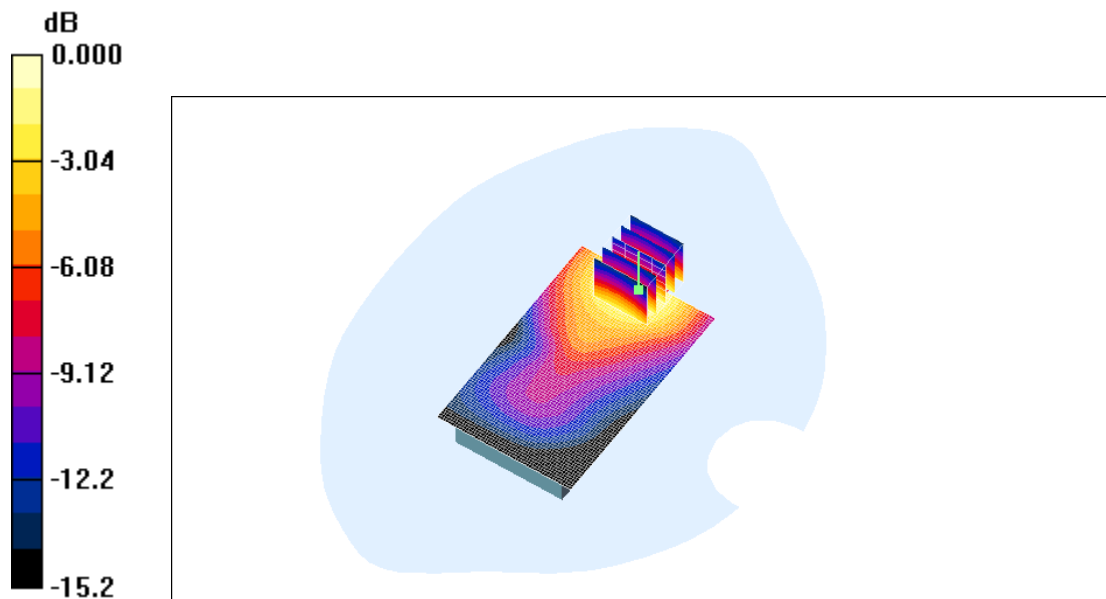
Reference Value = 7.59 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 0.583 W/kg

SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.236 mW/g

Maximum value of SAR (measured) = 0.421 mW/g

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0 dB = 0.421mW/g

	Document Appendix C for the BlackBerry® Smartphone Model RDA71UW SAR Report			Page 38(64)
Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 5/4/2010 12:57:36 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[25mm Spacer GPRS1900 mid_chan_amb_temp 22.1C_liq_temp 20.8C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Program Name: Compliance Testing: (Body worn)

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.6 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

Maximum value of SAR (interpolated) = 0.367 mW/g

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

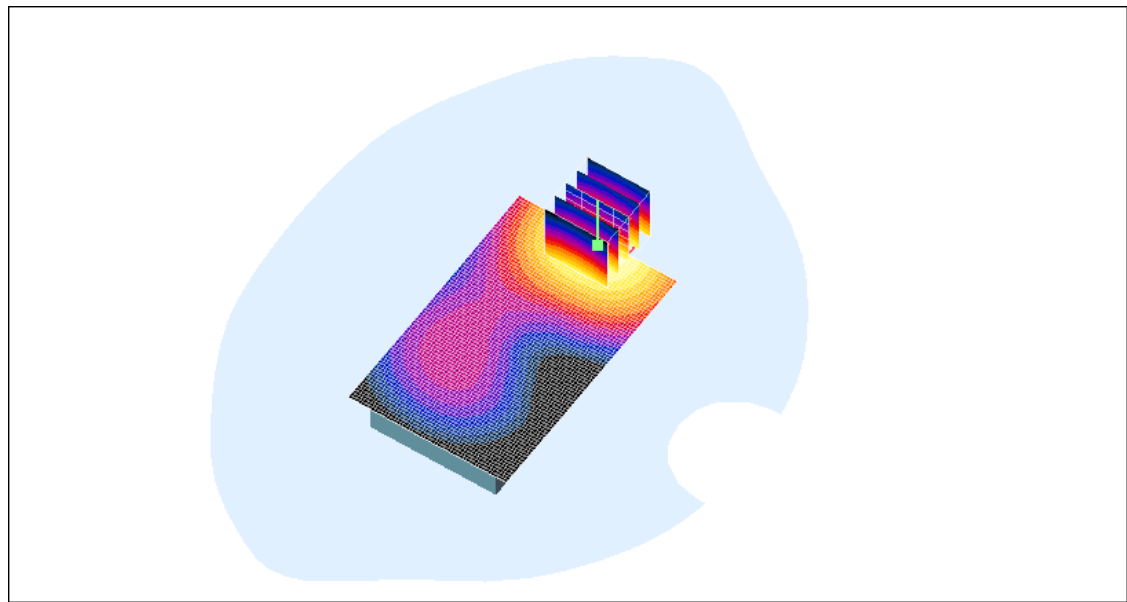
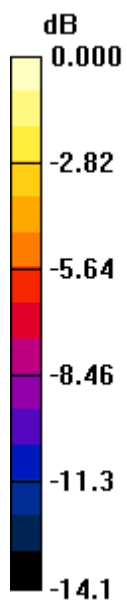
Reference Value = 5.10 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.517 W/kg

SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.212 mW/g

Maximum value of SAR (measured) = 0.372 mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW



0 dB = 0.372mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 5/4/2010 9:56:25 AM

Test Laboratory: RIM Testing Services

**Vertical_Holster_Back_UMTS_Bnad_II_mid_chan_amb_temp_23.1C_liq
_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.6 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

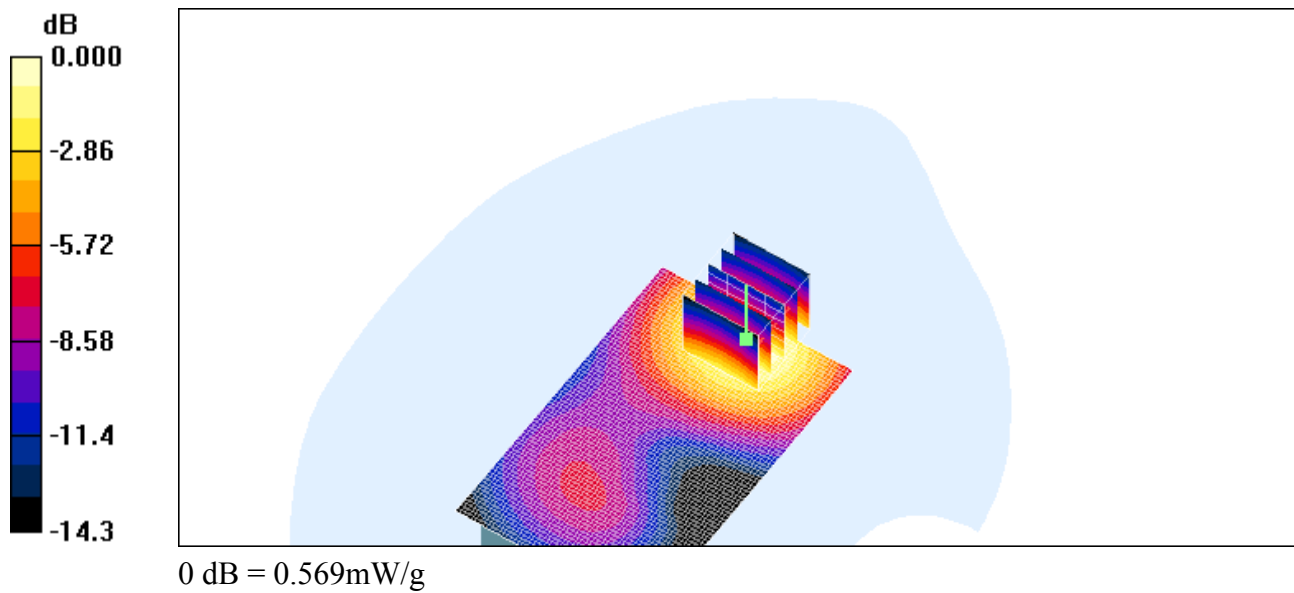
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.576 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$,
 $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.56 V/m; Power Drift = -0.130 dB
Peak SAR (extrapolated) = 0.785 W/kg
SAR(1 g) = 0.522 mW/g; SAR(10 g) = 0.321 mW/g
Maximum value of SAR (measured) = 0.569 mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 5/4/2010 10:10:33 AM

Test Laboratory: RIM Testing Services

**Horizontal_Holster_Back_UMTS_Bnad_II_mid_chan_amb_temp_22.7C_I
iq_temp_21.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.6 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DAS4 (High Precision Assessment)

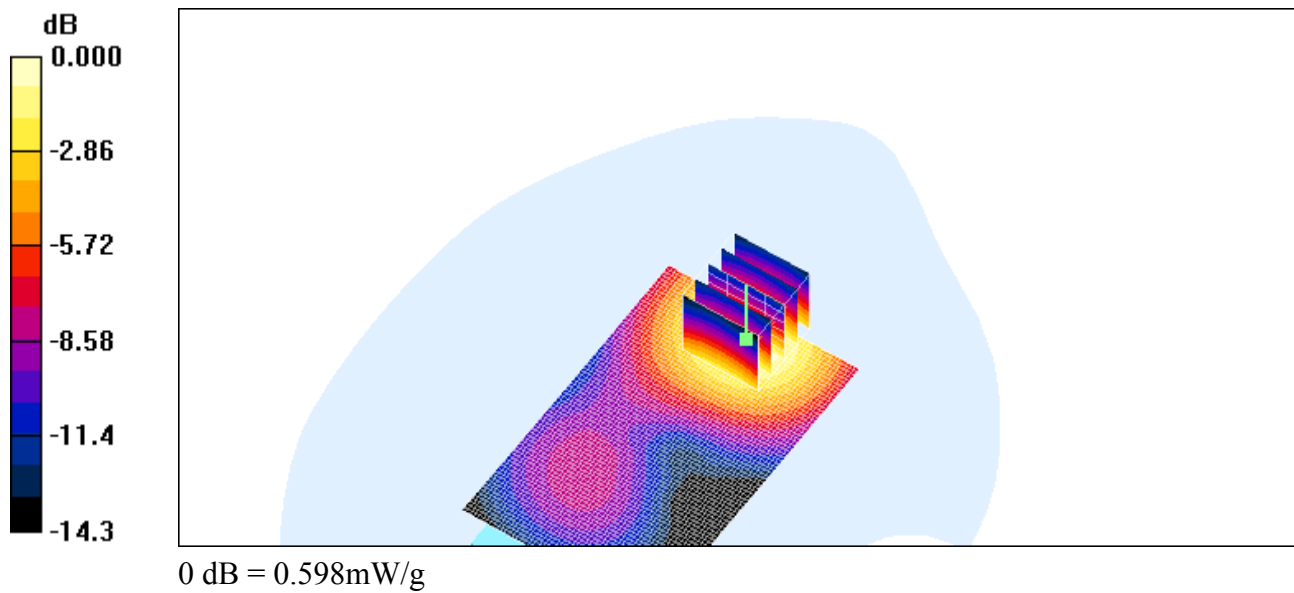
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.612 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$,
 $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.42 V/m; Power Drift = -0.020 dB
Peak SAR (extrapolated) = 0.821 W/kg
SAR(1 g) = 0.550 mW/g; SAR(10 g) = 0.342 mW/g
Maximum value of SAR (measured) = 0.598 mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 5/4/2010 10:24:24 AM

Test Laboratory: RIM Testing Services

Horizontal_Holster_Front_UMTS_Bnad_II_mid_chan_amb_temp_22.6C_
liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.6 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

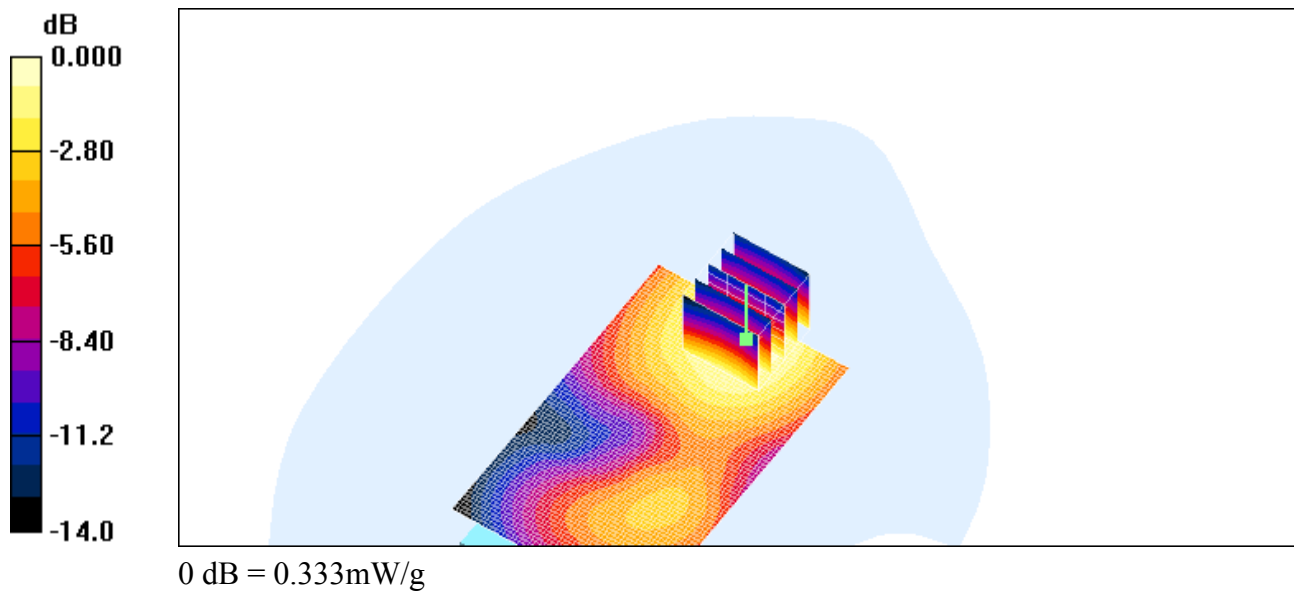
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.329 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$,
 $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.29 V/m; Power Drift = 0.013 dB
Peak SAR (extrapolated) = 0.457 W/kg
SAR(1 g) = 0.309 mW/g; SAR(10 g) = 0.198 mW/g
Maximum value of SAR (measured) = 0.333 mW/g

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Date/Time: 5/4/2010 10:55:26 AM

Test Laboratory: RIM Testing Services

Horizontal_Holster_Back_HS#2_UMTS_Bnad_II_mid_chan_amb_temp_22.4C_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.6 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

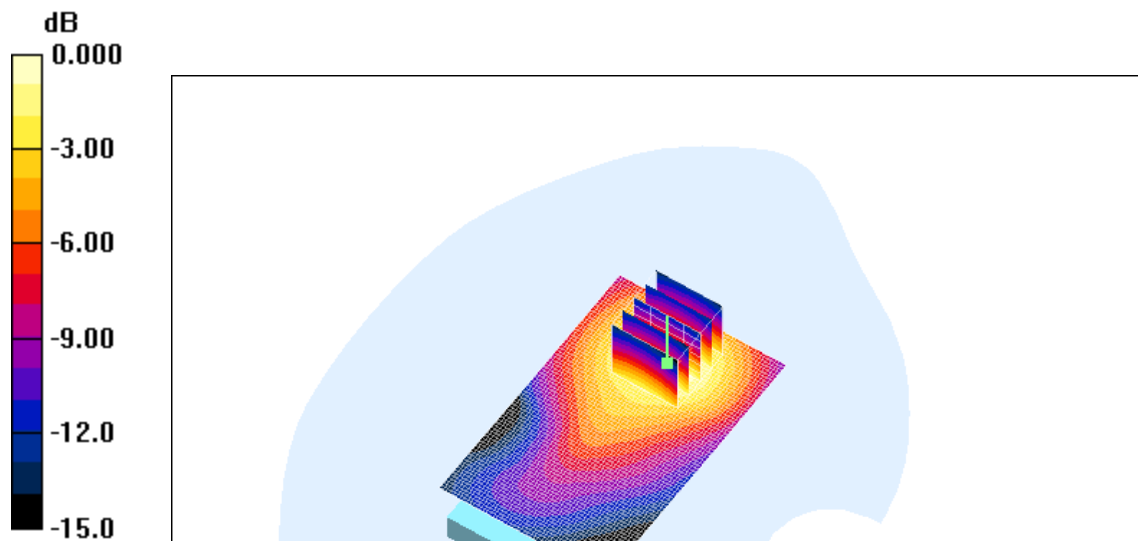
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.635 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 9.26 V/m; Power Drift = 0.030 dB
Peak SAR (extrapolated) = 0.870 W/kg
SAR(1 g) = 0.578 mW/g; SAR(10 g) = 0.356 mW/g
Maximum value of SAR (measured) = 0.630 mW/g

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0 dB = 0.630mW/g

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Date/Time: 5/4/2010 11:08:54 AM

Test Laboratory: RIM Testing Services

**25mm_Spacer_Back_UMTS_Bnad_II_mid_chan_amb_temp_22.2C_liq_t
emp_21.3C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.6 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

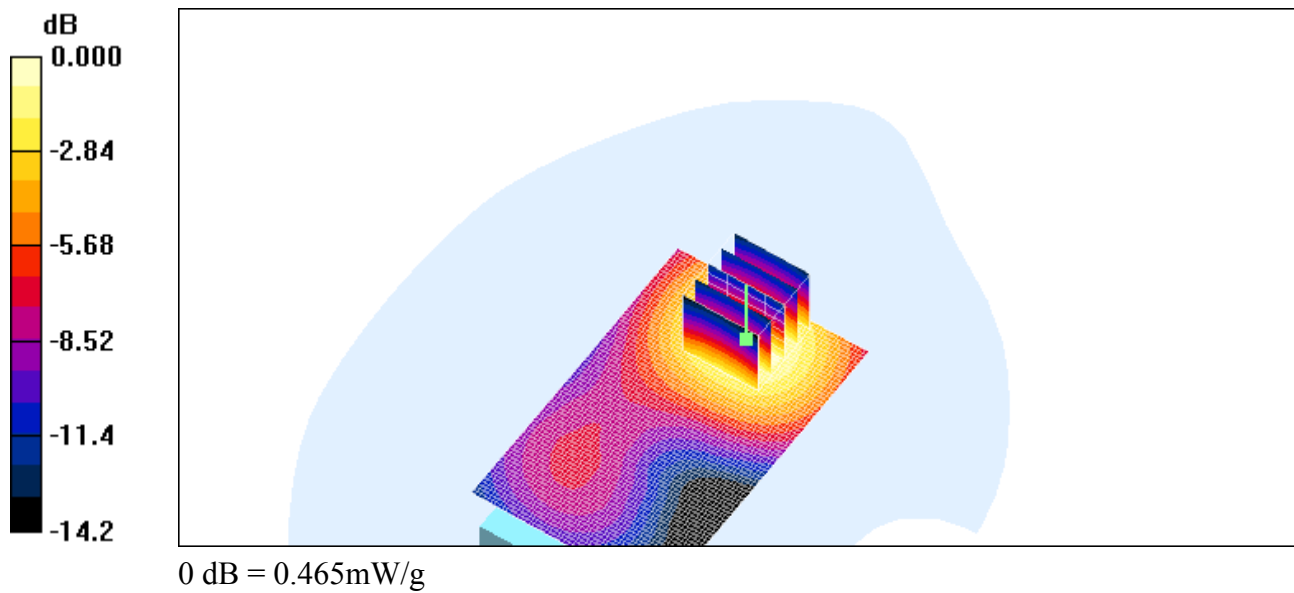
DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.9, 4.9, 4.9); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.469 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$,
 $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 7.16 V/m; Power Drift = -0.030 dB
Peak SAR (extrapolated) = 0.641 W/kg
SAR(1 g) = 0.428 mW/g; SAR(10 g) = 0.268 mW/g
Maximum value of SAR (measured) = 0.465 mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 5/10/2010 5:49:11 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back 802.11b low chan amb temp 23.8C liq temp 21.9C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 49.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.387 mW/g

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

Reference Value = 4.87 V/m ; Power Drift = 0.020 dB

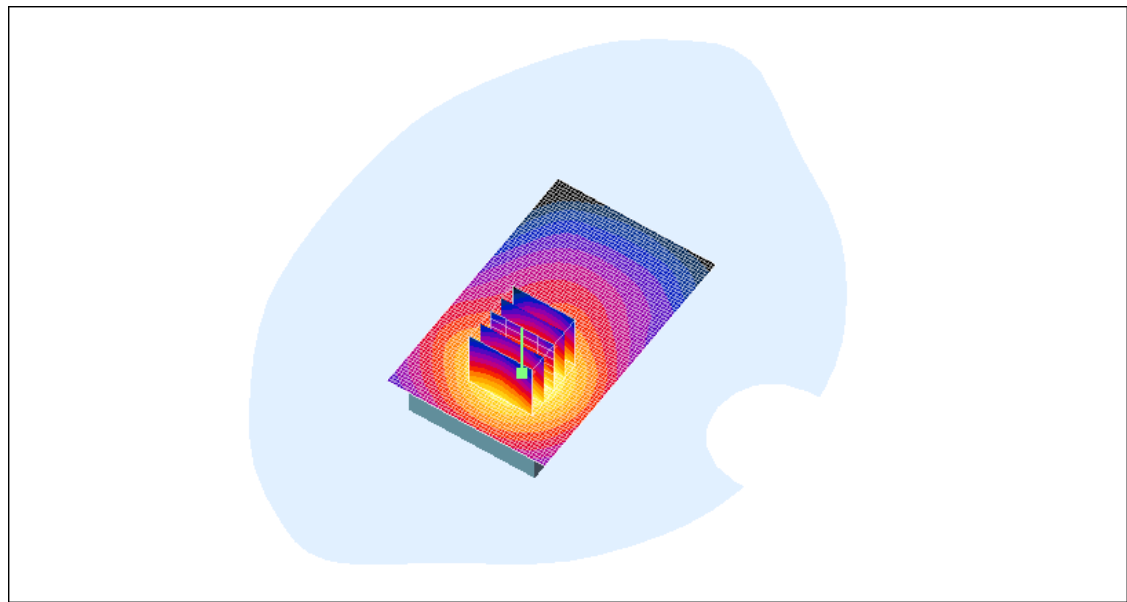
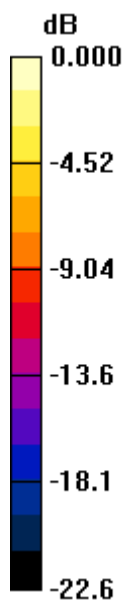
Peak SAR (extrapolated) = 0.681 W/kg

SAR(1 g) = 0.362 mW/g ; SAR(10 g) = 0.179 mW/g

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

Maximum value of SAR (measured) = 0.413 mW/g

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0 dB = 0.413mW/g

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Date/Time: 5/10/2010 5:17:46 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Horizontal_Holster_Back_802.11b_low_chan_amb_temp_22.9C_liq_temp_21.6C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 49.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.354 mW/g

Body/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.50 V/m; Power Drift = -0.140 dB

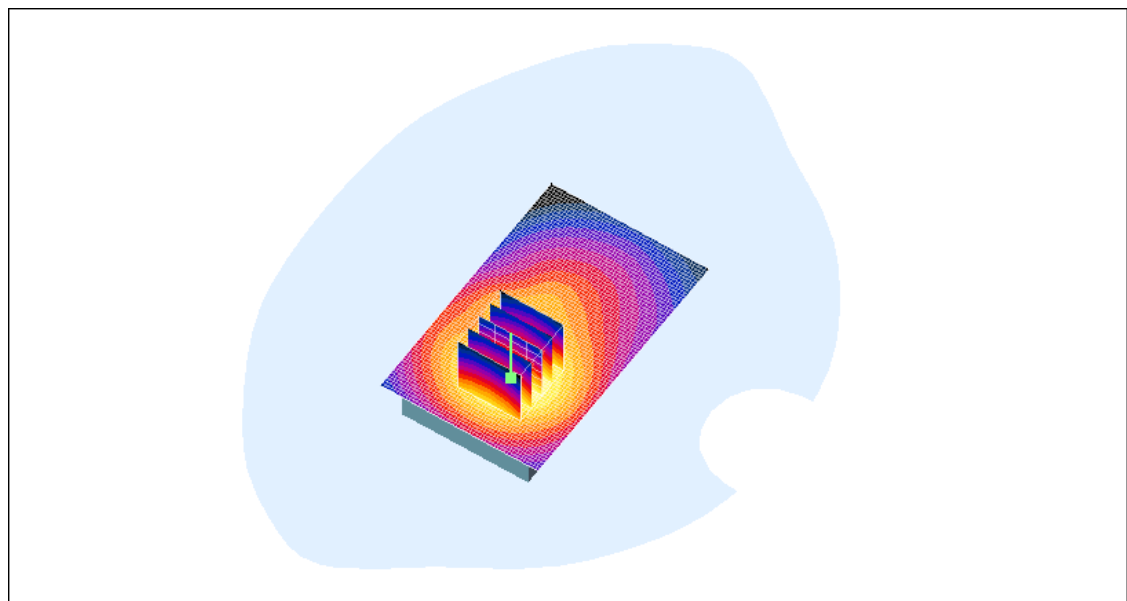
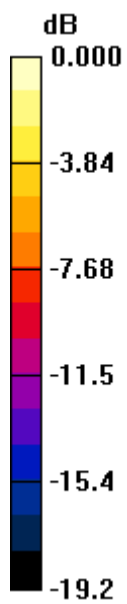
Peak SAR (extrapolated) = 0.586 W/kg

SAR(1 g) = 0.322 mW/g; SAR(10 g) = 0.172 mW/g

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

Maximum value of SAR (measured) = 0.357 mW/g

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0 dB = 0.357mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 5/10/2010 3:34:40 PM

Test Laboratory: RIM Testing Services

**Horizontal_Holster_Back_802.11b_mid_chan_amb_temp_22.8C_liq_tem
p_21.7C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 2.02 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.314 mW/g

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

Reference Value = 7.67 V/m ; Power Drift = 0.023 dB

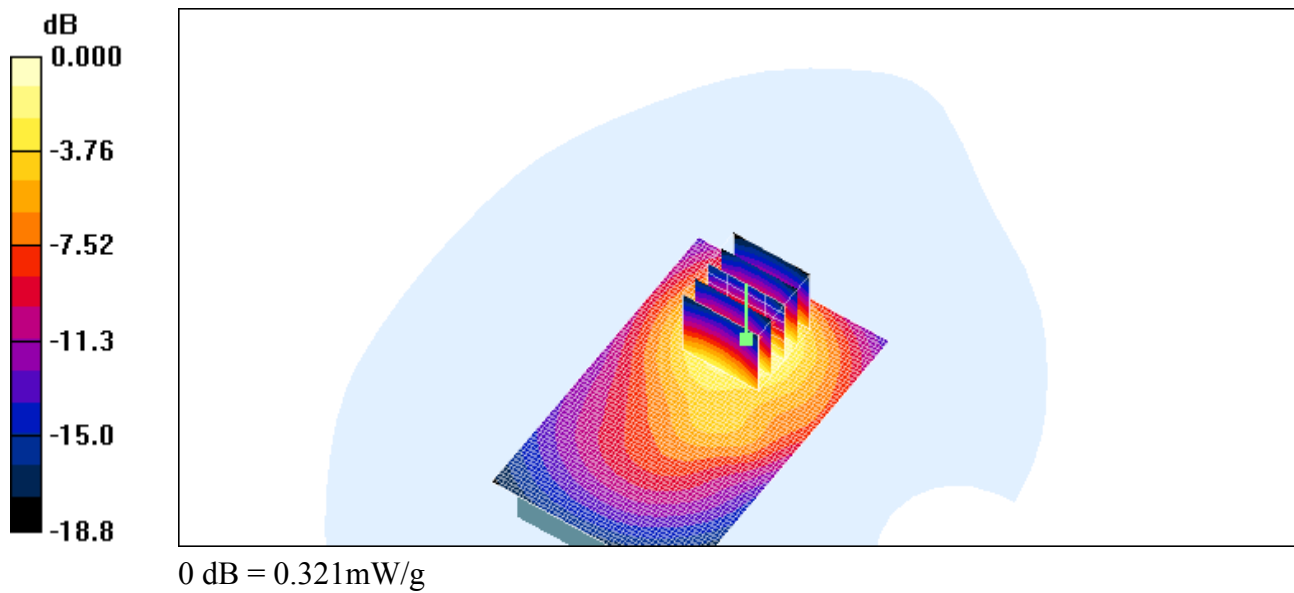
Peak SAR (extrapolated) = 0.530 W/kg

SAR(1 g) = 0.292 mW/g ; SAR(10 g) = 0.158 mW/g

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

Maximum value of SAR (measured) = 0.321 mW/g

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Author Data Andrew Becker	Dates of Test April 21– May 10, 2010	Test Report No RTS-2671-1005-53	FCC ID: L6ARDA70UW	IC ID 2503A-RDA70UW

Date/Time: 5/10/2010 3:49:51 PM

Test Laboratory: RIM Testing Services

Horizontal_Holster_Back_802.11b_high_chan_amb_temp_23.1C_liq_temper_21.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.274 mW/g

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

Reference Value = 7.60 V/m; Power Drift = -0.102 dB

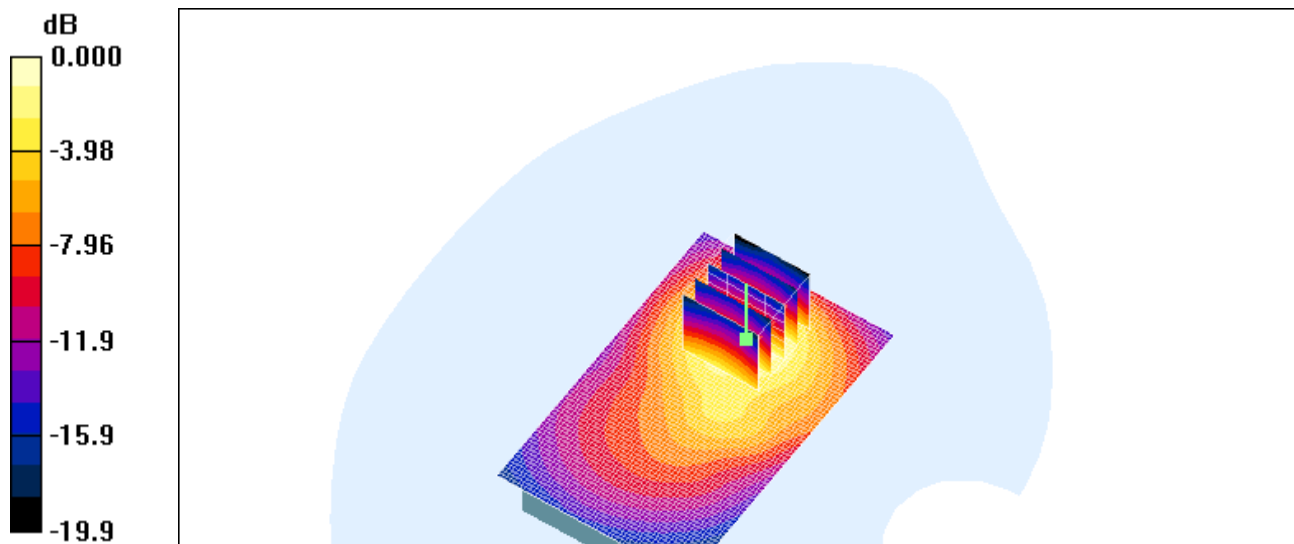
Peak SAR (extrapolated) = 0.451 W/kg

SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.130 mW/g

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

Maximum value of SAR (measured) = 0.269 mW/g

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0 dB = 0.269mW/g

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Date/Time: 5/10/2010 6:53:14 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Front 802.11b low chan amb temp 23.8C liq temp 21.9C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 49.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.008 mW/g

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

Reference Value = 0.663 V/m ; Power Drift = 3.98 dB

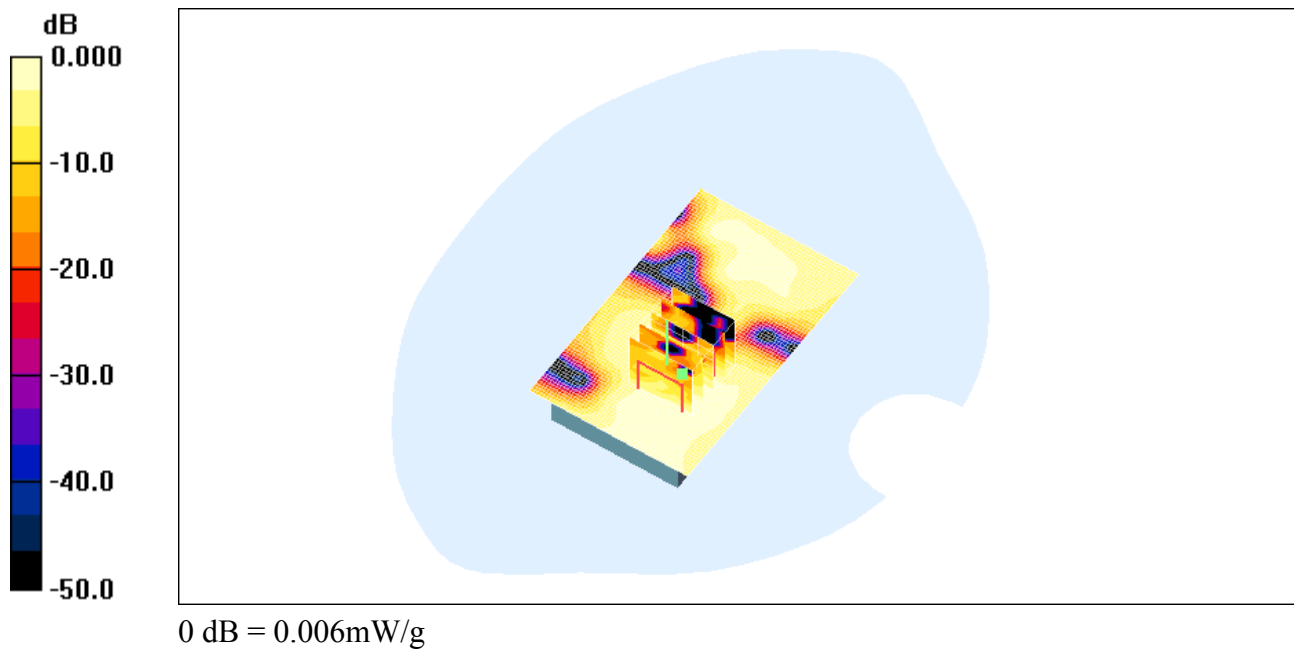
Peak SAR (extrapolated) = 0.025 W/kg

SAR(1 g) = 0.00519 mW/g ; SAR(10 g) = 0.00218 mW/g

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

Maximum value of SAR (measured) = 0.006 mW/g

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Date/Time: 5/10/2010 7:11:16 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[Vertical Holster Back HS#2 802.11b low chan amb temp 23.4C liq temp 21.5C.da](#)
[4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 49.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.491 mW/g

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

Reference Value = 5.32 V/m ; Power Drift = 0.103 dB

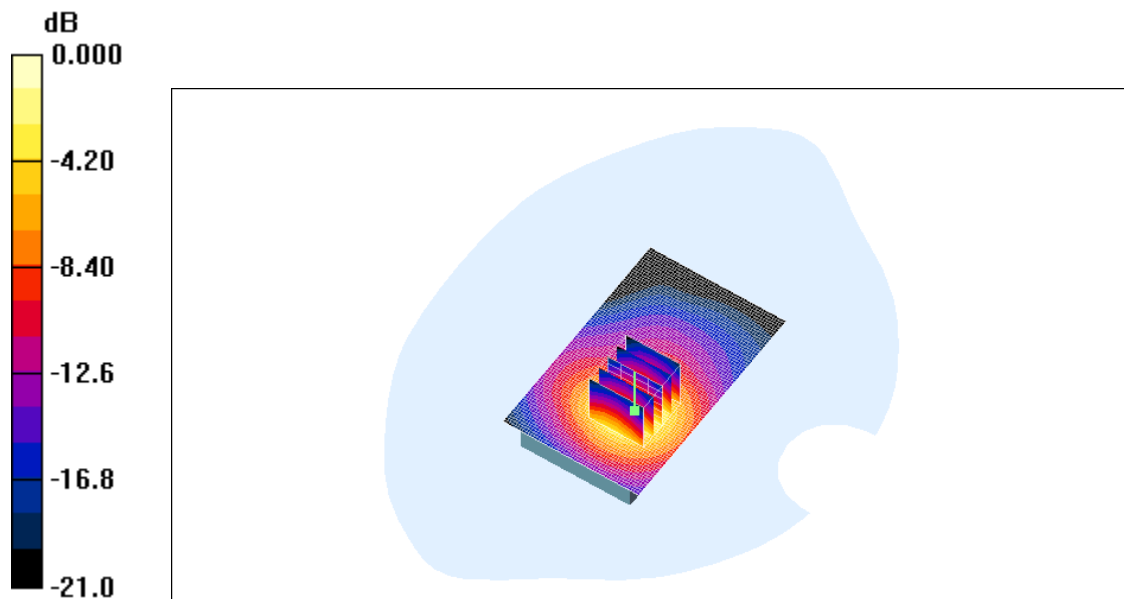
Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.440 mW/g ; SAR(10 g) = 0.216 mW/g

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

Maximum value of SAR (measured) = 0.490 mW/g

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0 dB = 0.490mW/g

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Date/Time: 5/10/2010 7:33:41 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [25mm_Spacer_802.11b_low_chan_amb_temp_23.4C_liq_temp_21.5C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 222B873E

Program Name: Compliance Testing: (Body worn)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 49.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.32, 4.32, 4.32); Calibrated: 12/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body/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) = 0.207 mW/g

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

Reference Value = 5.07 V/m ; Power Drift = 0.271 dB

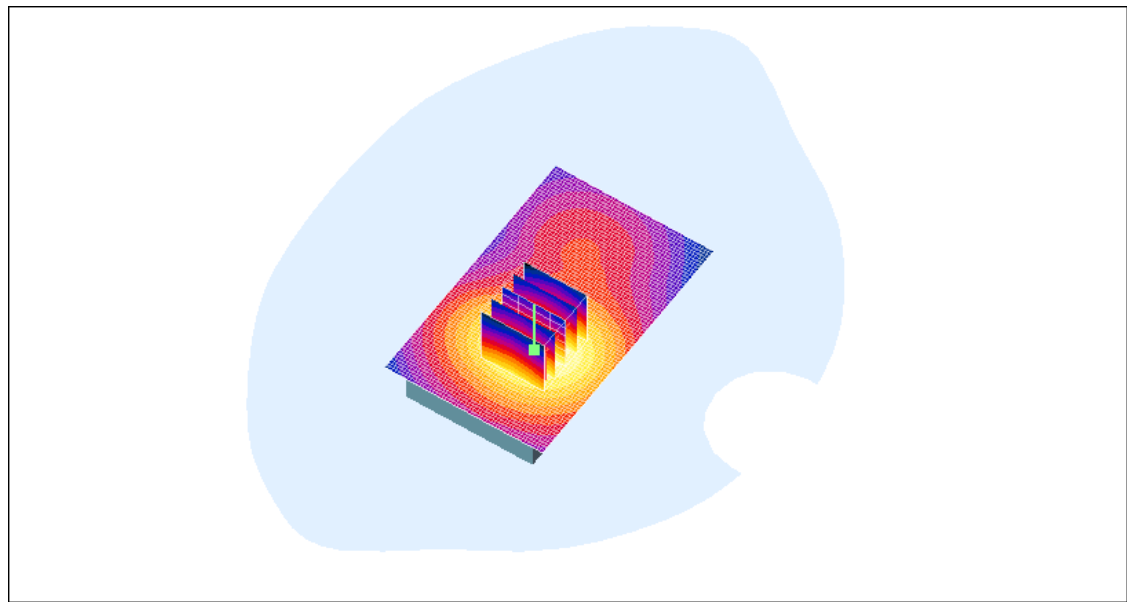
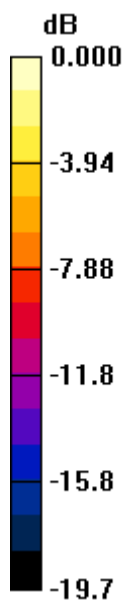
Peak SAR (extrapolated) = 0.332 W/kg

SAR(1 g) = 0.185 mW/g ; SAR(10 g) = 0.101 mW/g

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

Maximum value of SAR (measured) = 0.202 mW/g

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0 dB = 0.202mW/g

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Z axis plot for the worst case body configuration:

