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APPENDIX C1: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Date/Time: 7/25/2012 12:47:10 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_low_chan_amb_temp_23.1_liq_temp_2
5.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 824.2 MHz

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.955 \text{ mho/m}$; $\epsilon_r = 53.808$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.901 mW/g

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

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

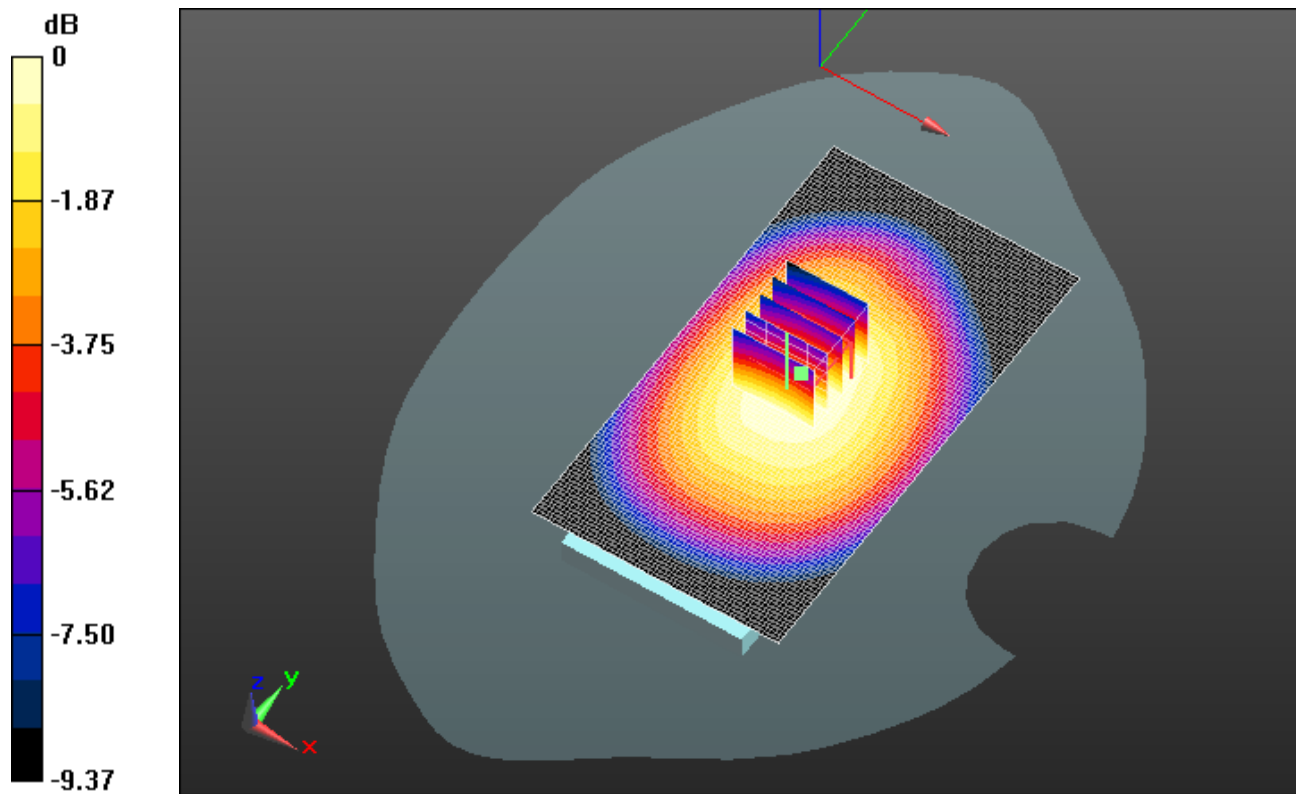
Reference Value = 29.725 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.0360

SAR(1 g) = 0.821 mW/g; SAR(10 g) = 0.621 mW/g

Maximum value of SAR (measured) = 0.904 mW/g

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0 dB = 0.900mW/g = -0.92 dB mW/g

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Date/Time: 7/25/2012 12:26:25 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_mid_chan_amb_temp_23.0_liq_temp_2 5.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 53.784$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 0.946 mW/g

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

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

Reference Value = 30.516 V/m; Power Drift = -0.13 dB

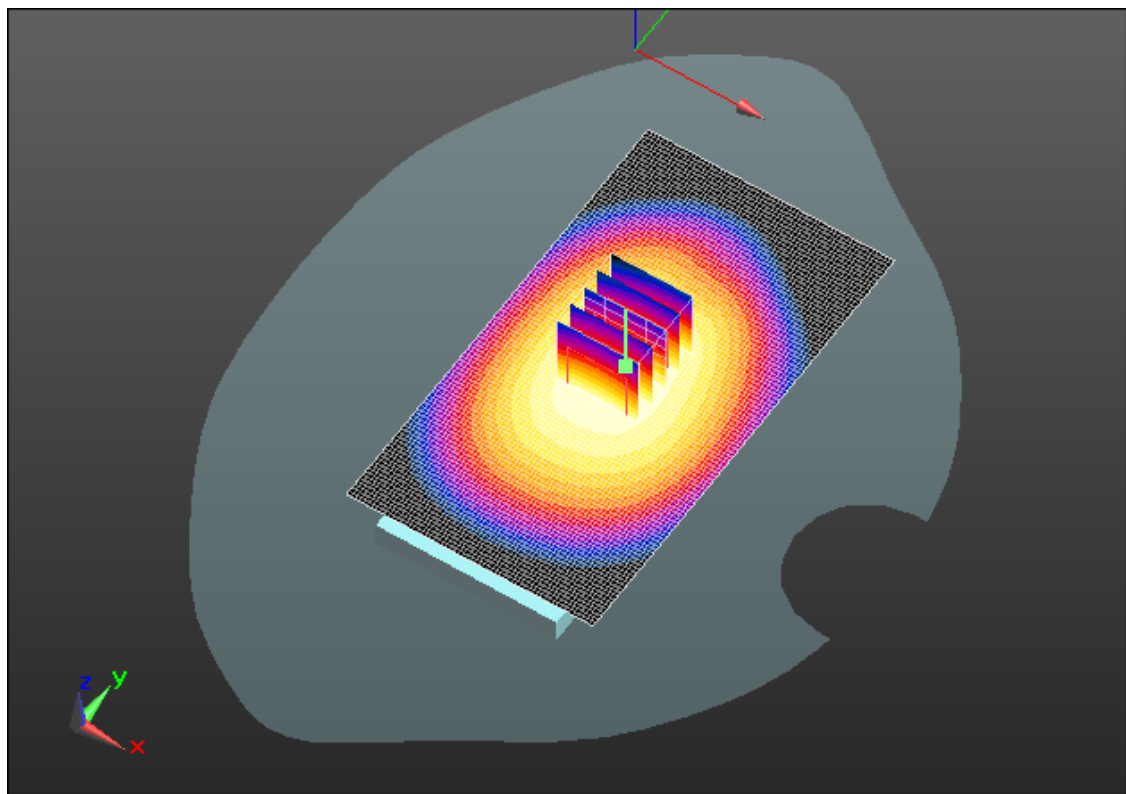
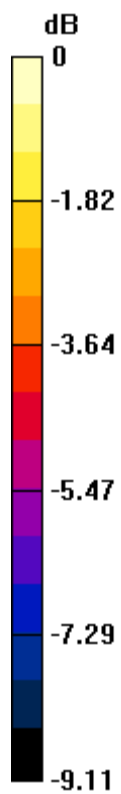
Peak SAR (extrapolated) = 1.0560

SAR(1 g) = 0.842 mW/g; SAR(10 g) = 0.635 mW/g

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

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

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

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Date/Time: 7/25/2012 1:04:37 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS850_high_chan_amb_temp_23.0_liq_temp_25.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 848.8 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 1.002$ mho/m; $\epsilon_r = 53.721$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.882 mW/g

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

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

Reference Value = 29.300 V/m; Power Drift = -0.06 dB

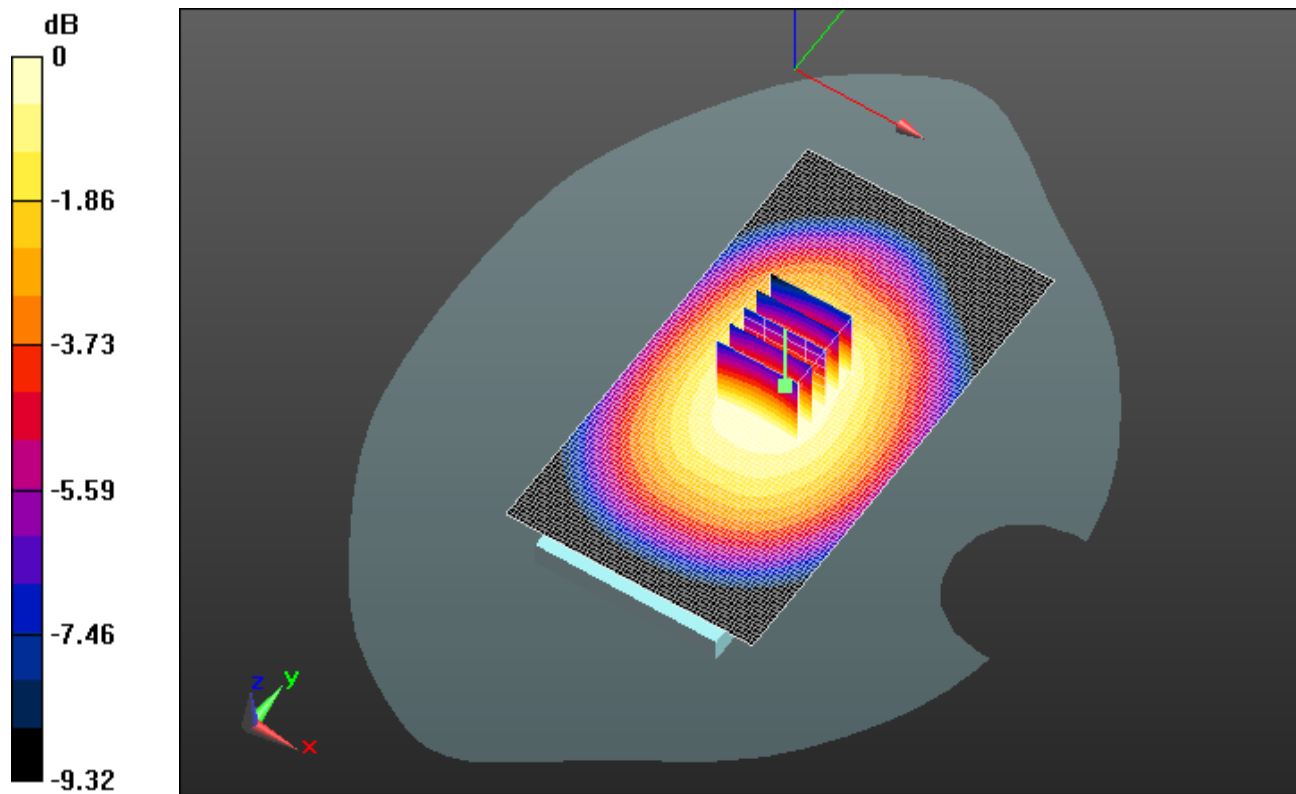
Peak SAR (extrapolated) = 1.0040

SAR(1 g) = 0.794 mW/g; SAR(10 g) = 0.602 mW/g

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

Maximum value of SAR (measured) = 0.869 mW/g

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

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Date/Time: 7/25/2012 1:27:20 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_GPRS850_mid_chan_amb_temp_23.0_liq_temp_25.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 53.784$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.820 mW/g

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

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

Reference Value = 29.334 V/m; Power Drift = 0.07 dB

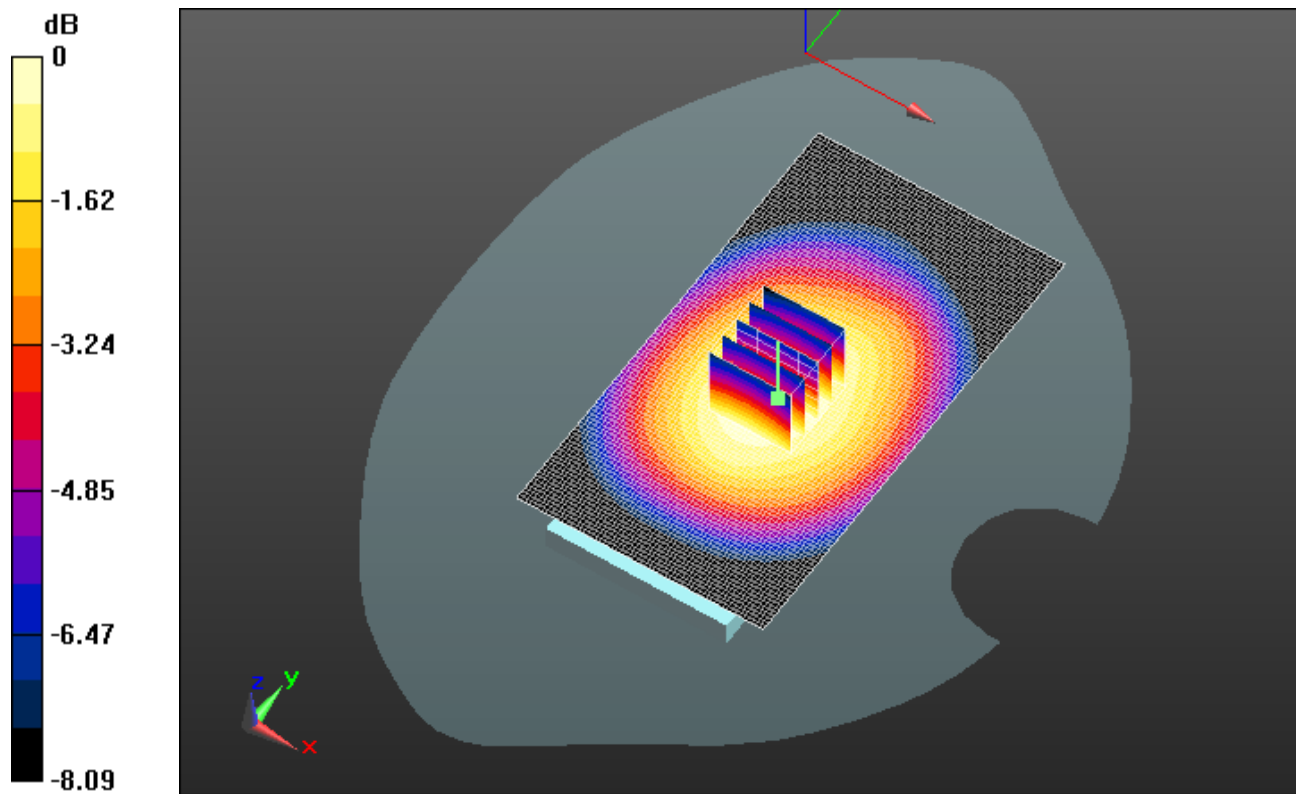
Peak SAR (extrapolated) = 0.9400

SAR(1 g) = 0.747 mW/g; SAR(10 g) = 0.568 mW/g

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

Maximum value of SAR (measured) = 0.821 mW/g

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

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Date/Time: 7/25/2012 9:55:10 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Front_GPRS850_mid_chan_amb_temp_23.5_liq_temp_22.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 53.784$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 0.818 mW/g

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

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

Reference Value = 29.530 V/m; Power Drift = -0.01 dB

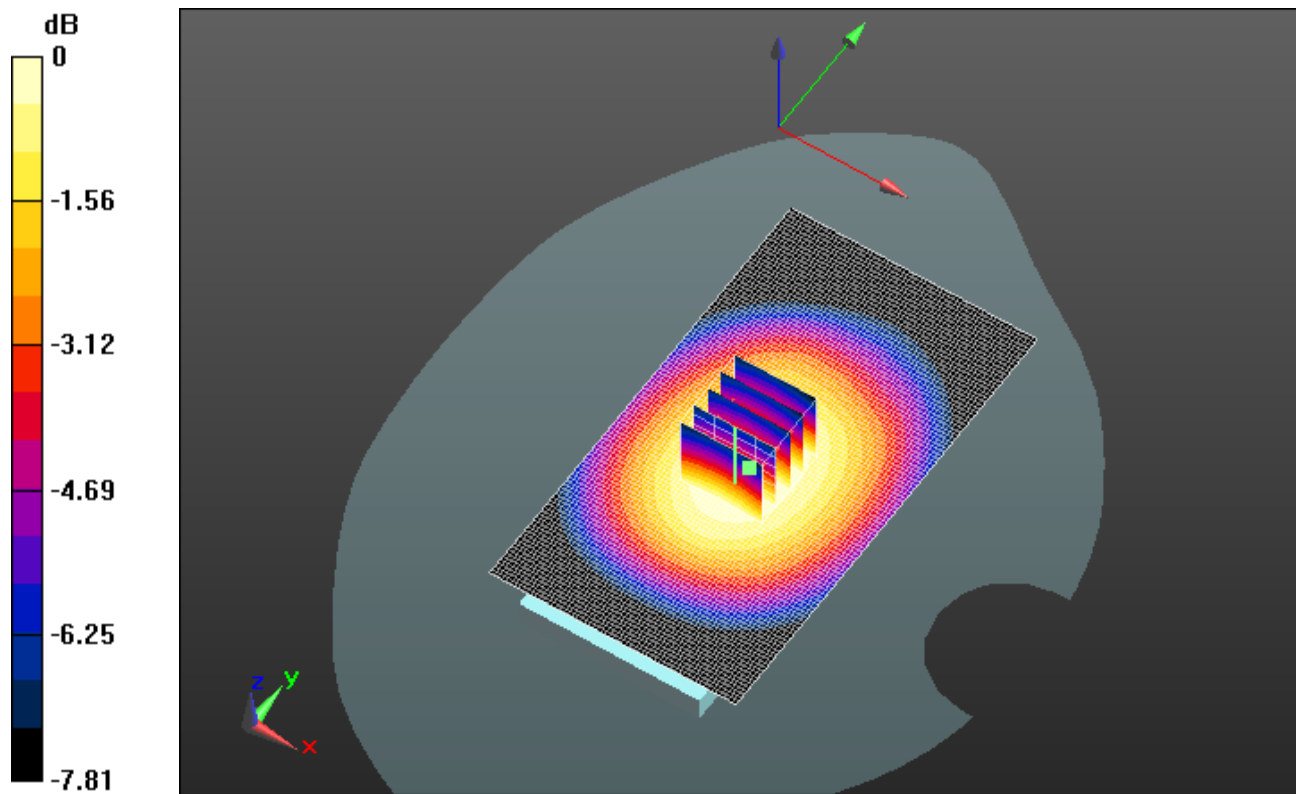
Peak SAR (extrapolated) = 0.9180

SAR(1 g) = 0.745 mW/g; SAR(10 g) = 0.567 mW/g

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

Maximum value of SAR (measured) = 0.814 mW/g

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0 dB = 0.810mW/g = -1.83 dB mW/g

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Date/Time: 6/5/2012 12:46:14 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_Band_V_mid_chan_amb_temp_23.2_liq_temper_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.966$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.814 mW/g

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

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

Reference Value = 29.316 V/m; Power Drift = -0.17 dB

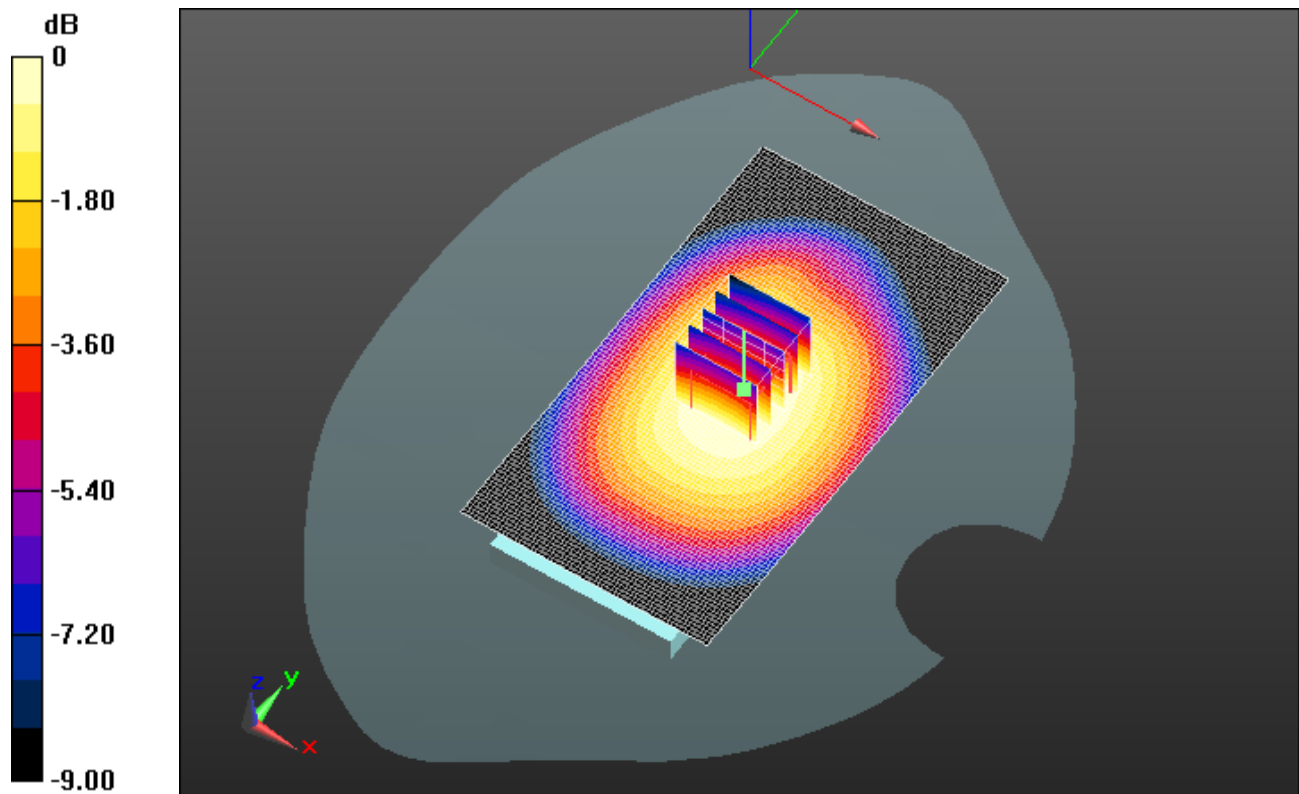
Peak SAR (extrapolated) = 0.9260

SAR(1 g) = 0.743 mW/g; SAR(10 g) = 0.566 mW/g

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

Maximum value of SAR (measured) = 0.813 mW/g

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0 dB = 0.810mW/g = -1.83 dB mW/g

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Date/Time: 6/5/2012 1:15:22 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_UMTS_Band_V_mid_chan_amb_temp_22.4_liq_temperatures_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.966$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 0.785 mW/g

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

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

Reference Value = 27.223 V/m; Power Drift = -0.02 dB

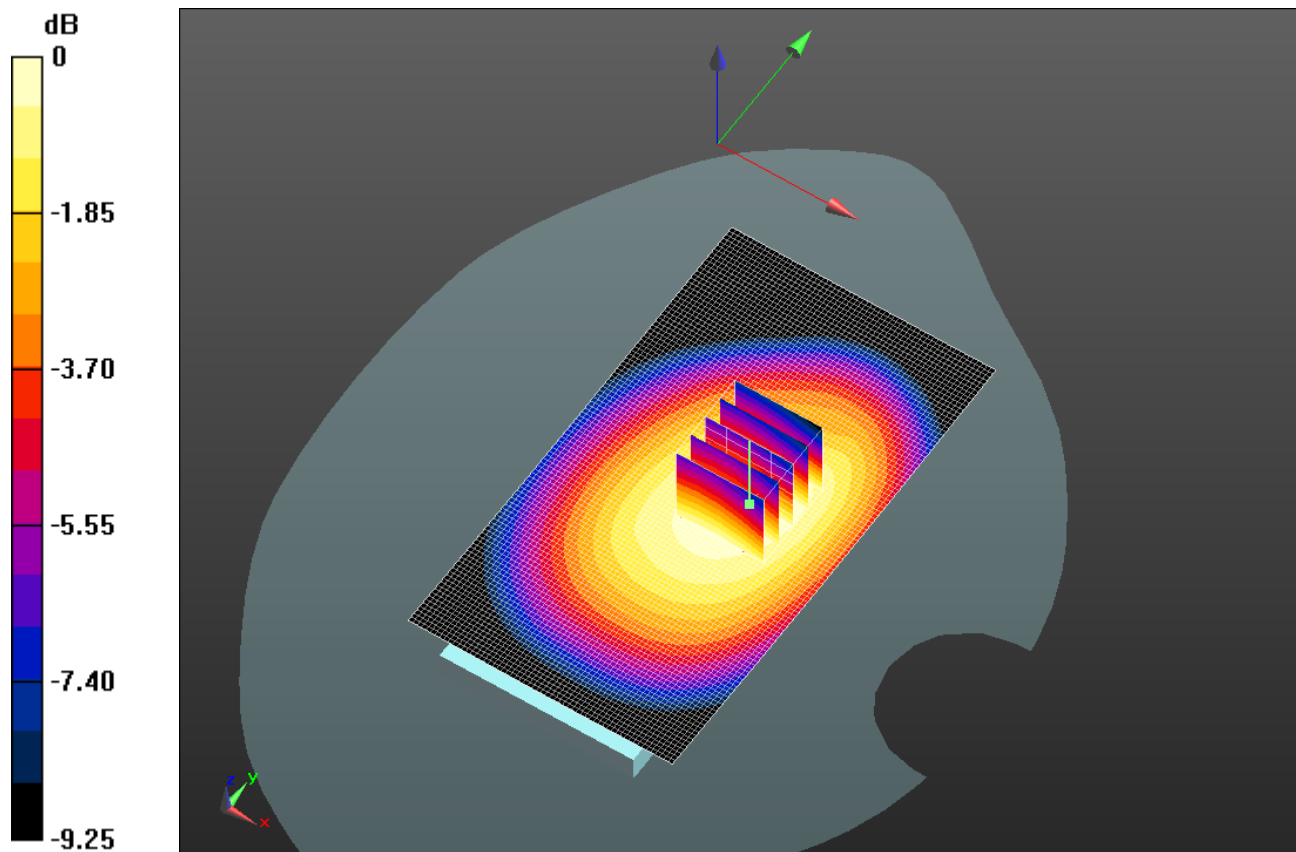
Peak SAR (extrapolated) = 0.8980

SAR(1 g) = 0.714 mW/g; SAR(10 g) = 0.540 mW/g

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

Maximum value of SAR (measured) = 0.793 mW/g

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0 dB = 0.790mW/g = -2.05 dB mW/g

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Date/Time: 6/5/2012 12:22:07 PM

Test Laboratory: RIM Testing Services

**Vertical_Holster_Back_UMTS_Band_V_mid_chan_amb_temp_23.1_liq_t
emp_21.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.966$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 0.753 mW/g

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

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

Reference Value = 28.841 V/m; Power Drift = -0.11 dB

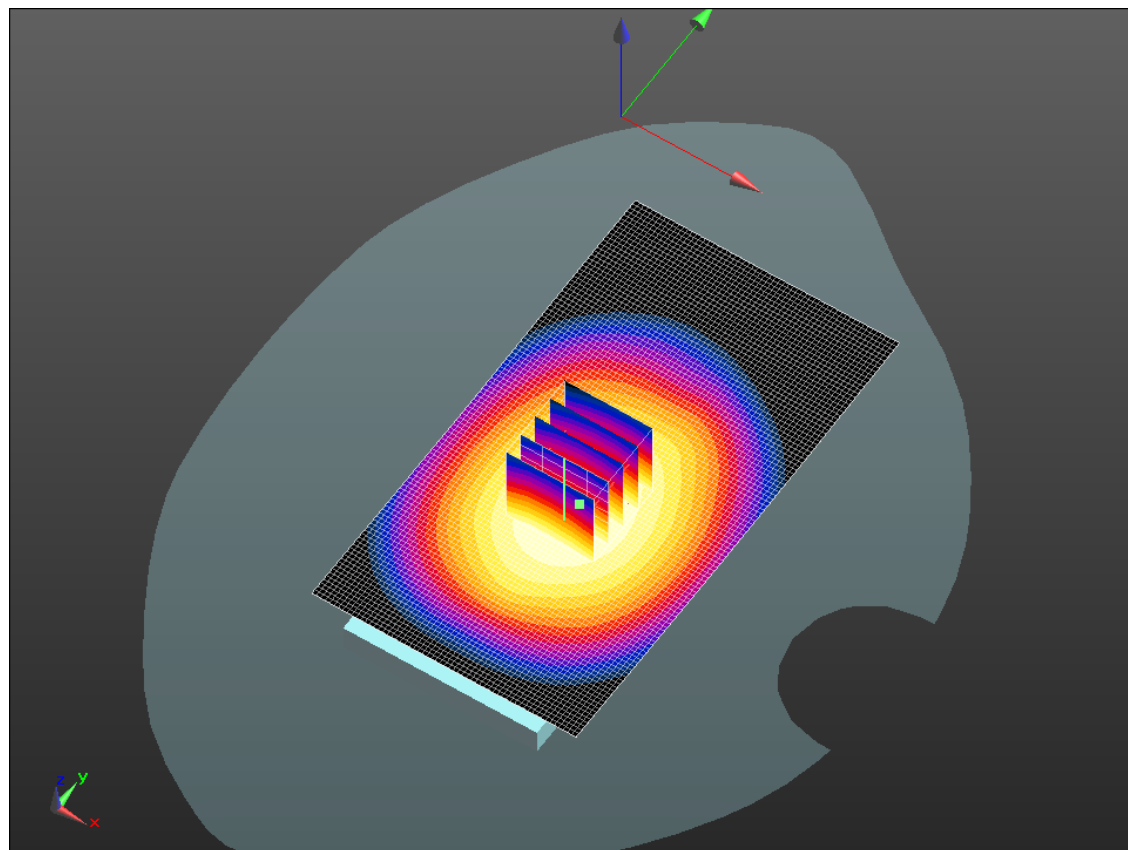
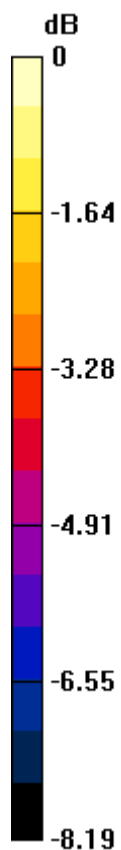
Peak SAR (extrapolated) = 0.8440

SAR(1 g) = 0.678 mW/g; SAR(10 g) = 0.518 mW/g

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

Maximum value of SAR (measured) = 0.743 mW/g

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

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Date/Time: 6/5/2012 12:41:40 PM

Test Laboratory: RIM Testing Services

**Vertical_Holster_Front_UMTS_Band_V_mid_chan_amb_temp_22.8_liq_t
emp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.966$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 0.745 mW/g

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

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

Reference Value = 27.952 V/m; Power Drift = 0.12 dB

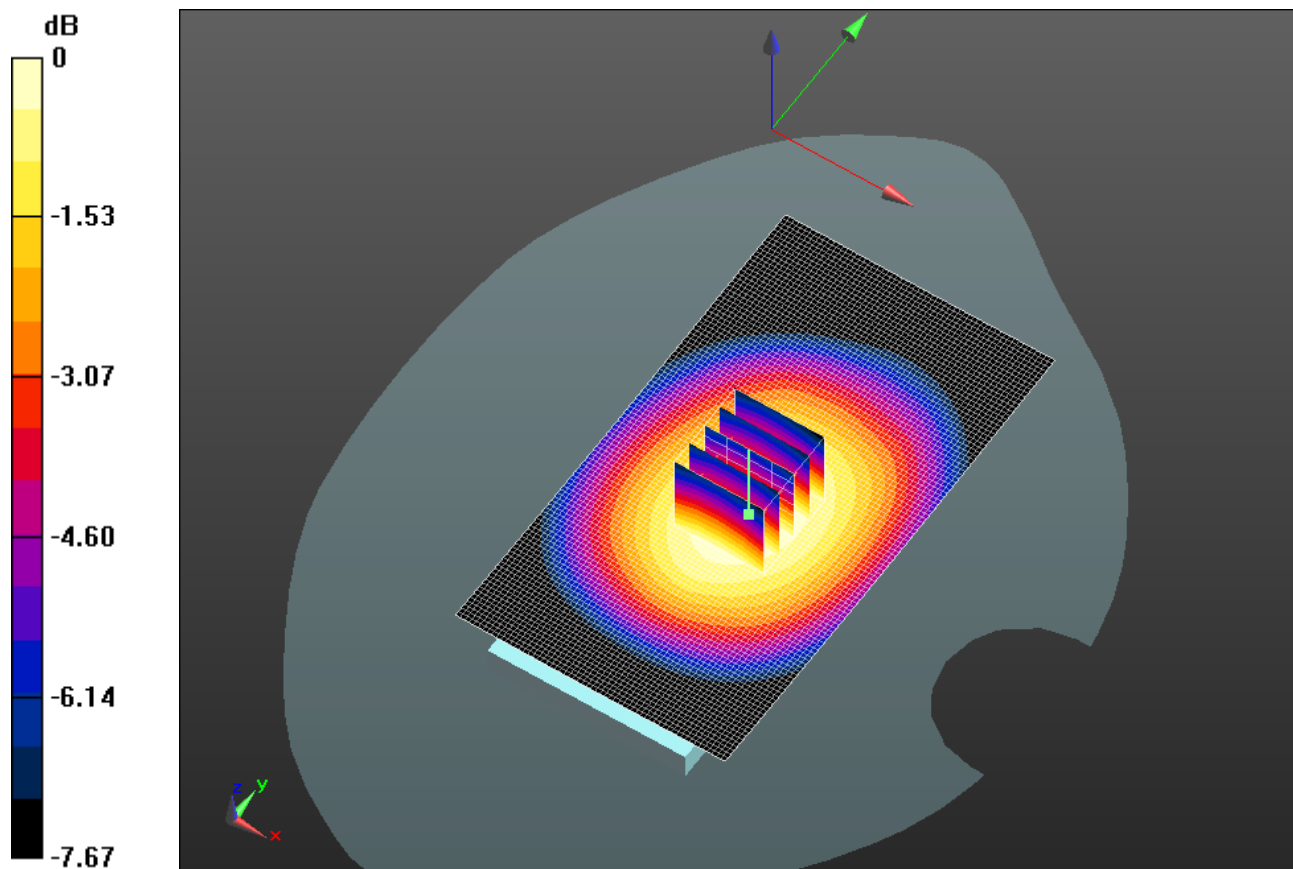
Peak SAR (extrapolated) = 0.8400

SAR(1 g) = 0.684 mW/g; SAR(10 g) = 0.524 mW/g

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

Maximum value of SAR (measured) = 0.746 mW/g

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0 dB = 0.750mW/g = -2.50 dB mW/g

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Date/Time: 6/5/2012 3:09:34 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_HS_Back_UMTS_Band_V_mid_chan_amb_temp_23.0_li
q_temp_21.7C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.966$ mho/m; $\epsilon_r = 53.137$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.07, 6.07, 6.07); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 0.659 mW/g

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

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

Reference Value = 24.566 V/m; Power Drift = -0.07 dB

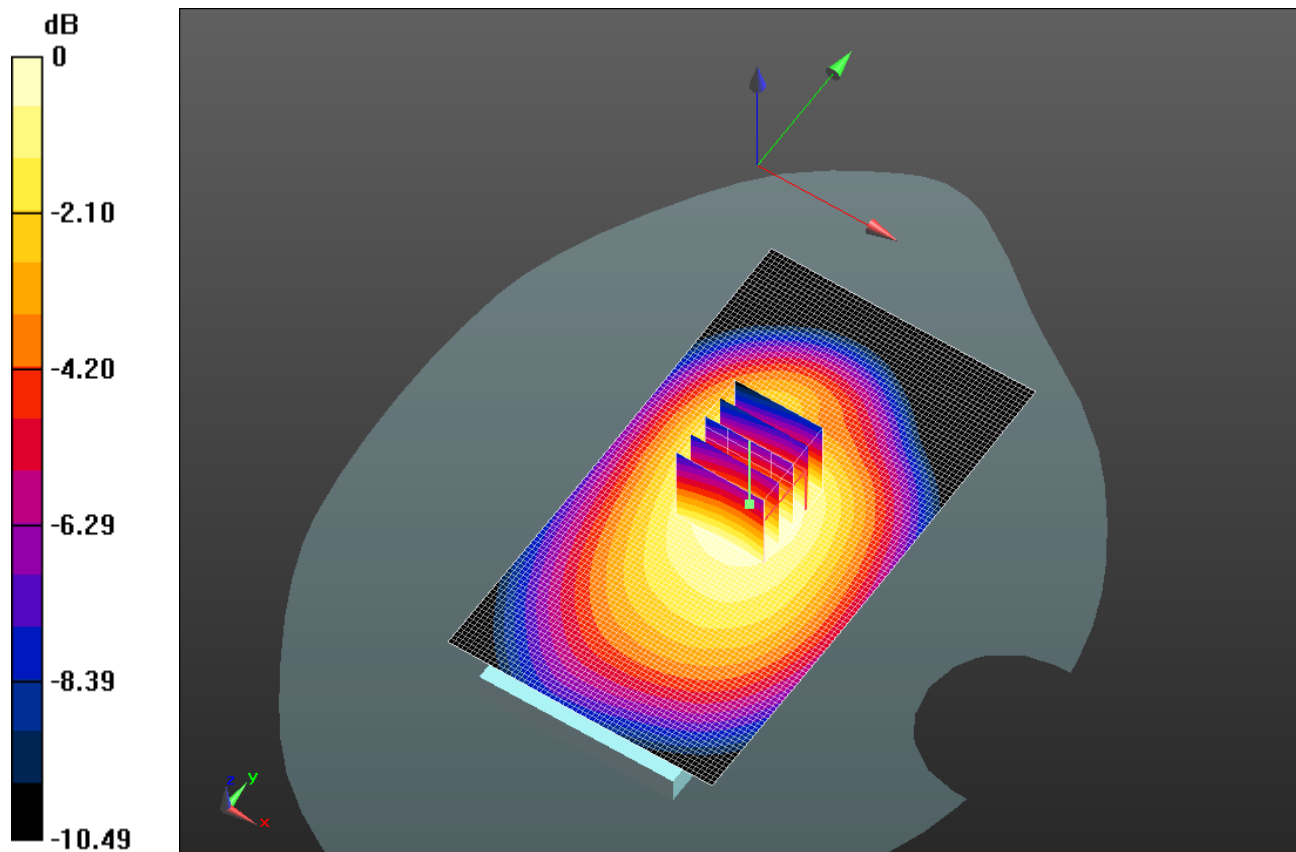
Peak SAR (extrapolated) = 0.7600

SAR(1 g) = 0.588 mW/g; SAR(10 g) = 0.437 mW/g

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

Maximum value of SAR (measured) = 0.654 mW/g

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

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 7/19/2012 3:02:22 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_Band_V_mid_chan_amb_temp_23.4_liq_temp_22.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.943$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.775 mW/g

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

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

Reference Value = 28.793 V/m; Power Drift = 0.03 dB

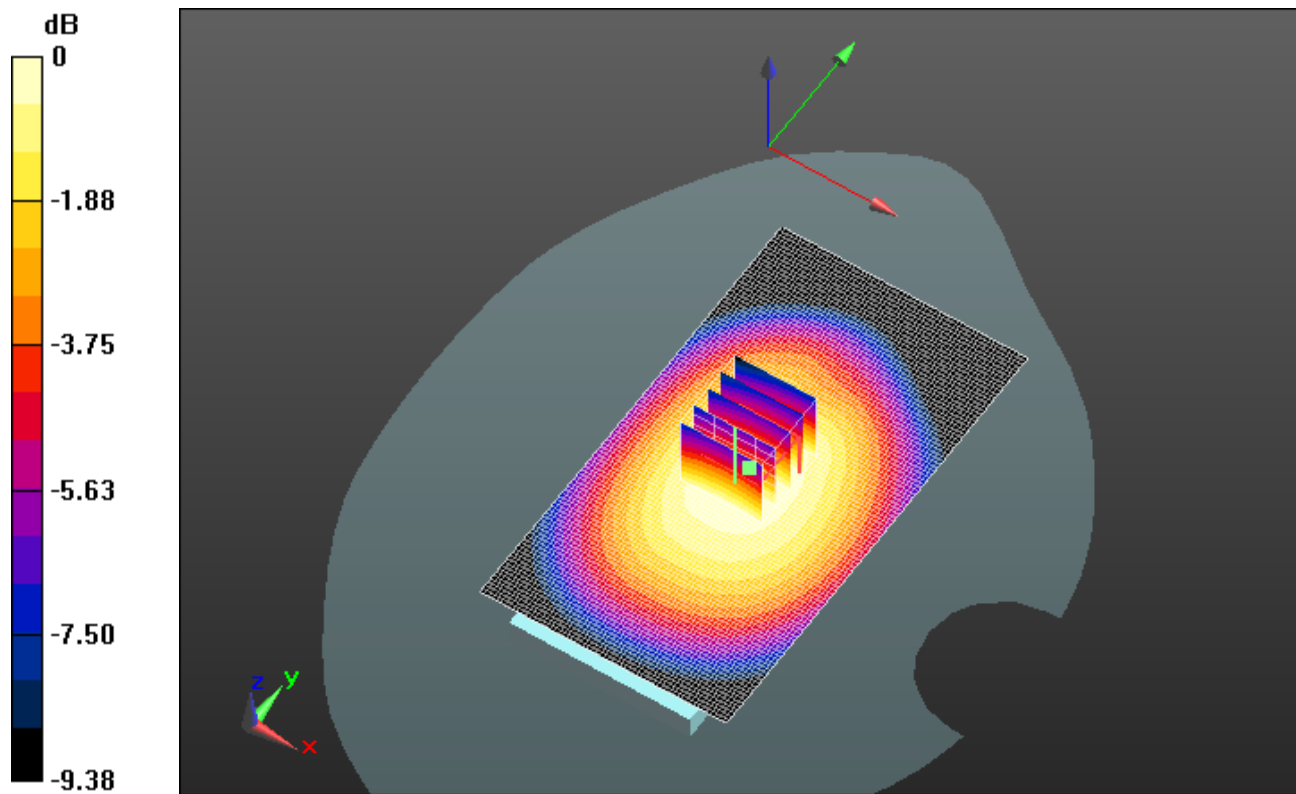
Peak SAR (extrapolated) = 0.9040

SAR(1 g) = 0.703 mW/g; SAR(10 g) = 0.532 mW/g

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

Maximum value of SAR (measured) = 0.775 mW/g

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0 dB = 0.770mW/g = -2.27 dB mW/g

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Date/Time: 7/31/2012 10:19:17 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_GPRS1900_mid_chan_amb_temp_22.7_liq_temp_23.2C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.533 \text{ mho/m}$; $\epsilon_r = 50.995$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 0.255 mW/g

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

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

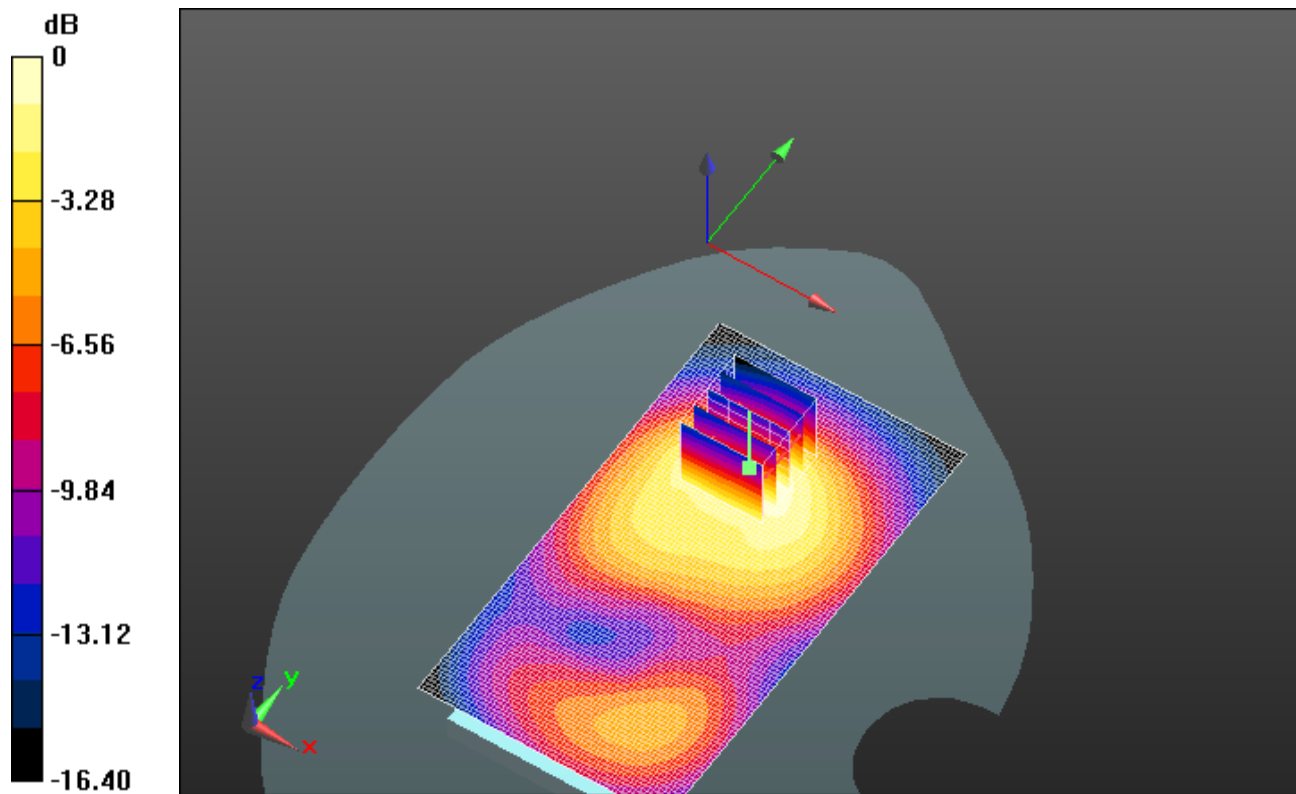
Reference Value = 5.042 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.3280

SAR(1 g) = 0.205 mW/g; SAR(10 g) = 0.123 mW/g

Maximum value of SAR (measured) = 0.247 mW/g

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0 dB = 0.250mW/g = -12.04 dB mW/g

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Date/Time: 7/31/2012 11:12:23 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_GPRS1900_mid_chan_amb_temp_23.6_liq_temp_22.5

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.533 \text{ mho/m}$; $\epsilon_r = 50.995$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.131 mW/g

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

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

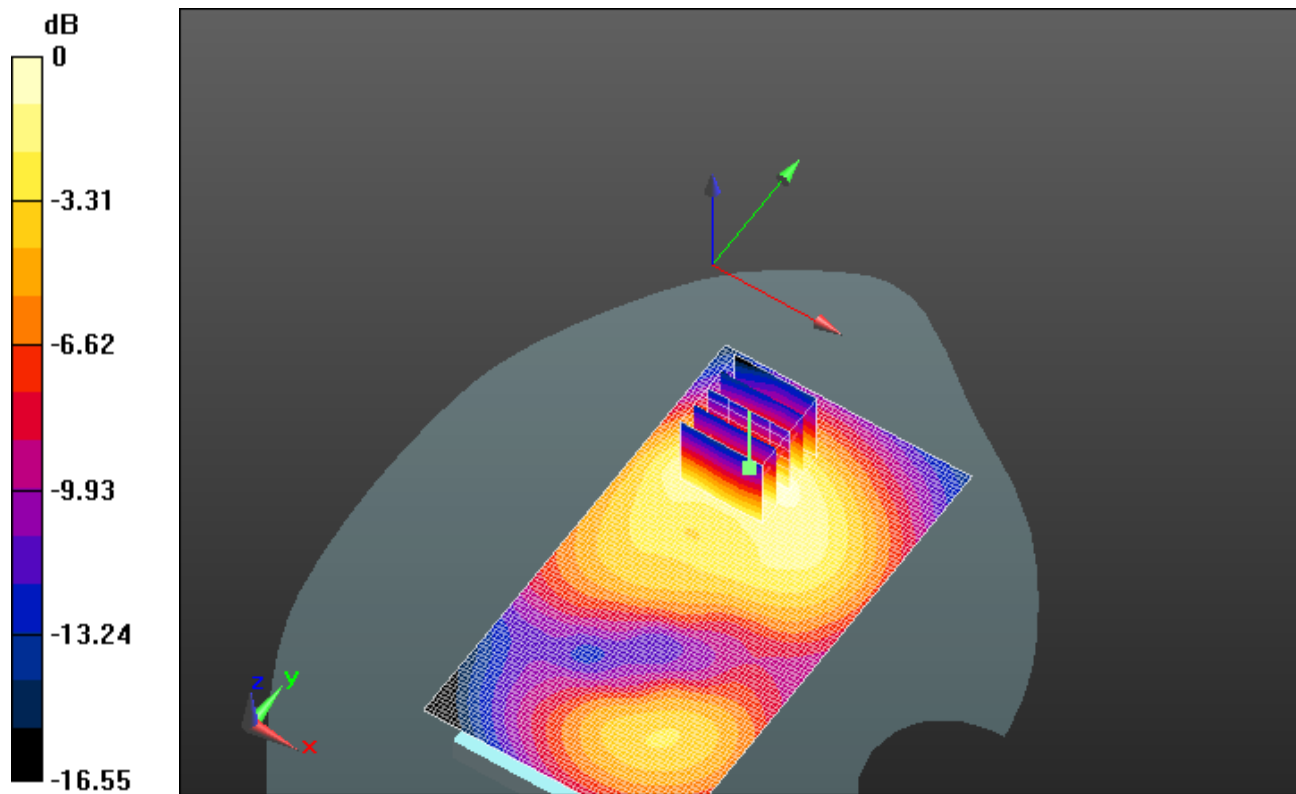
Reference Value = 3.117 V/m; Power Drift = 0.22 dB

Peak SAR (extrapolated) = 0.1700

SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.064 mW/g

Maximum value of SAR (measured) = 0.128 mW/g

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0 dB = 0.130mW/g = -17.72 dB mW/g

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Date/Time: 7/31/2012 11:31:19 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Front_GPRS1900_mid_chan_amb_temp_23.5_liq_tem p_22.5

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.533 \text{ mho/m}$; $\epsilon_r = 50.995$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

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

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

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

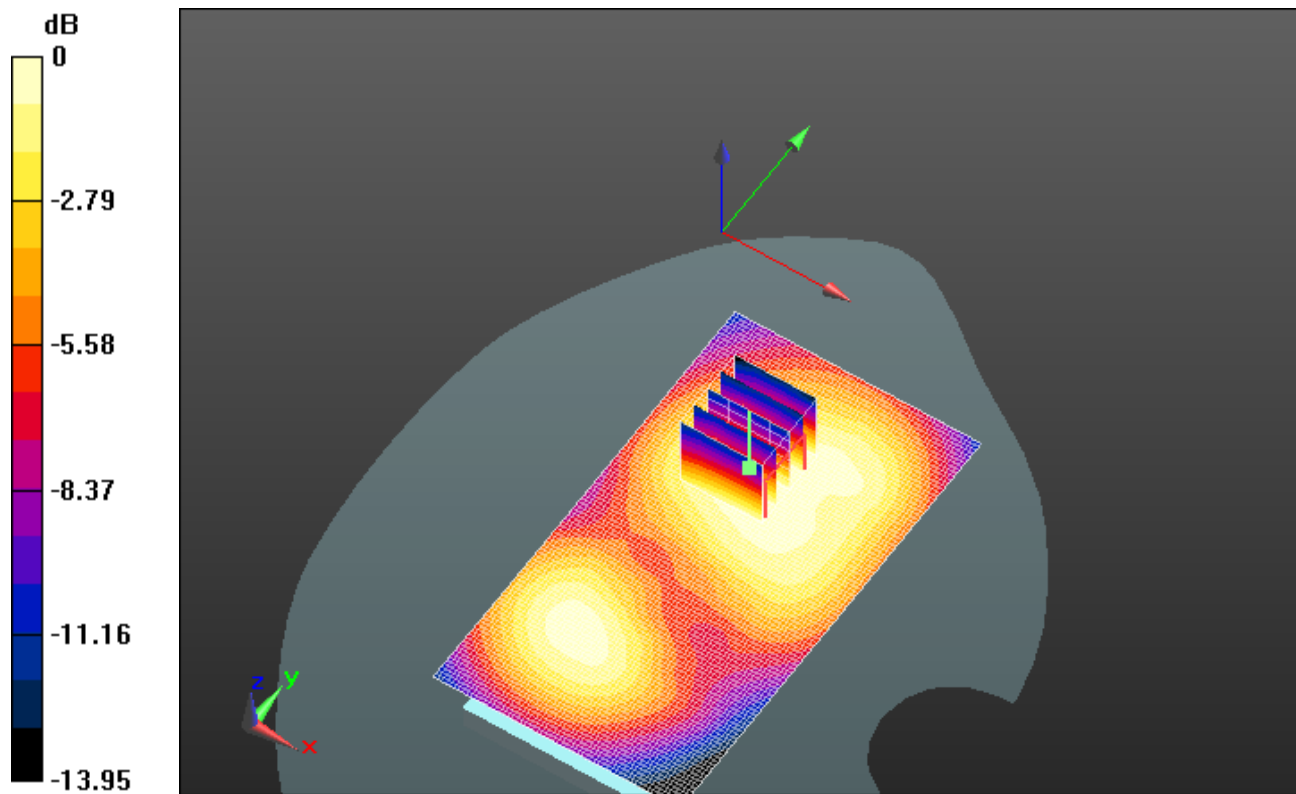
Reference Value = 3.673 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.0990

SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.044 mW/g

Maximum value of SAR (measured) = 0.077 mW/g

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0 dB = 0.080mW/g = -21.94 dB mW/g

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Date/Time: 5/29/2012 9:06:41 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_UMTS_Band_II_mid_chan_amb_temp_23.0_liq_temperatures_21.5C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.506 \text{ mho/m}$; $\epsilon_r = 51.137$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.472 mW/g

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

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

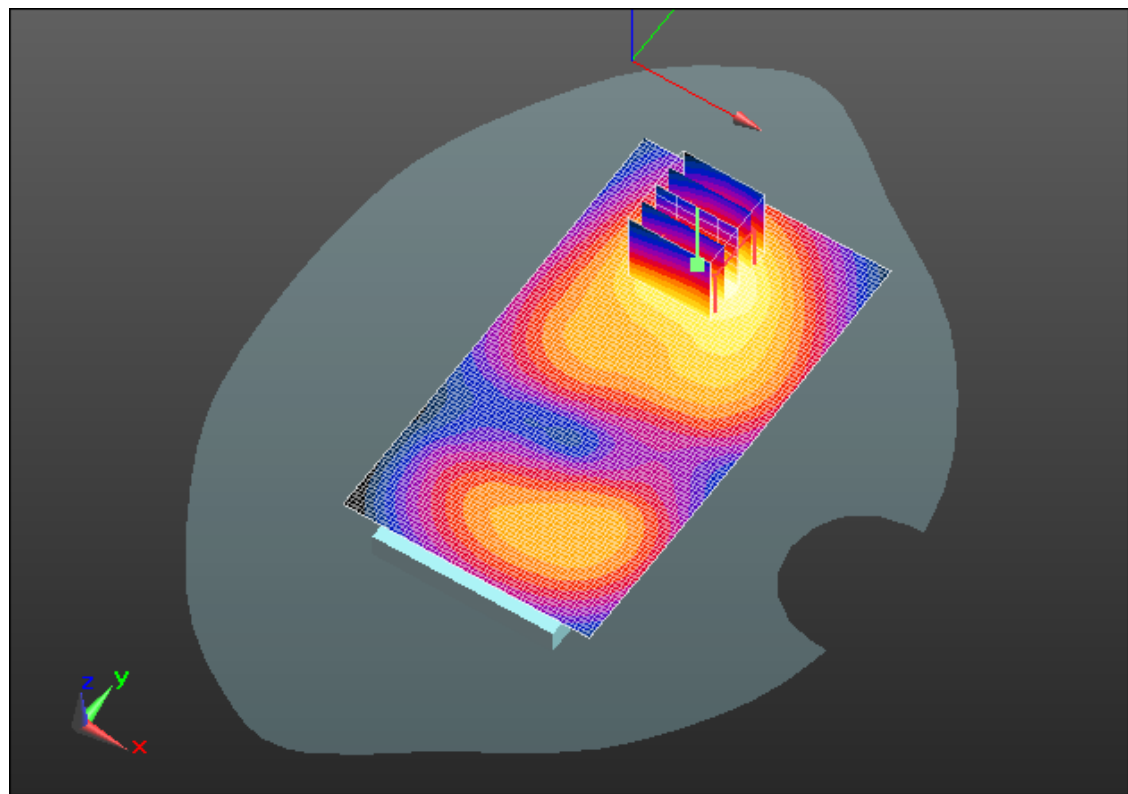
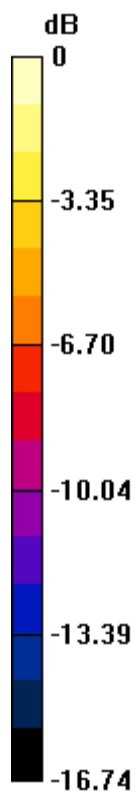
Reference Value = 4.427 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.6290

SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.230 mW/g

Maximum value of SAR (measured) = 0.471 mW/g

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0 dB = 0.470mW/g = -6.56 dB mW/g

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Date/Time: 5/29/2012 9:25:19 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_UMTS_Band_II_mid_chan_amb_temp_23.3_liq_temper_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.506 \text{ mho/m}$; $\epsilon_r = 51.137$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.432 mW/g

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

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

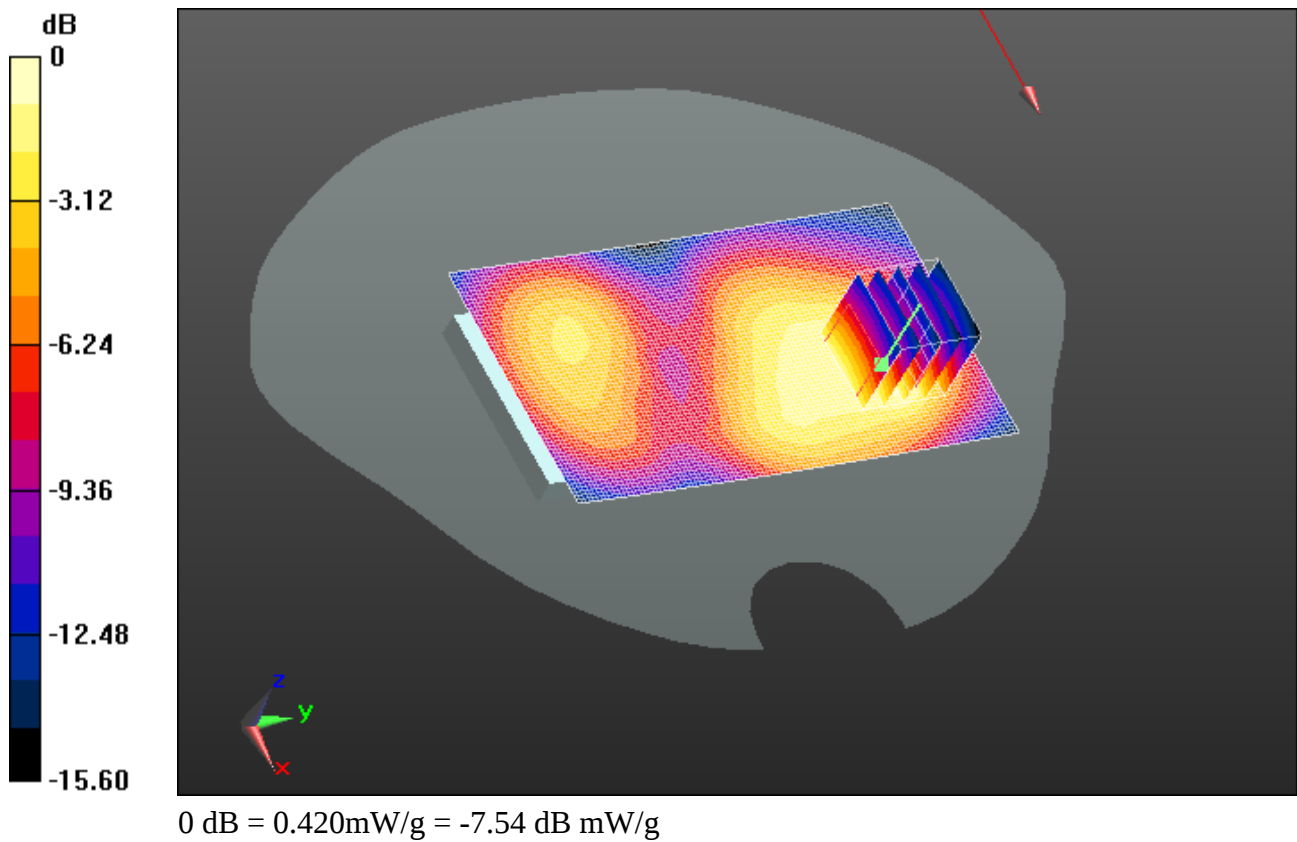
Reference Value = 6.479 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.5610

SAR(1 g) = 0.344 mW/g; SAR(10 g) = 0.208 mW/g

Maximum value of SAR (measured) = 0.416 mW/g

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Date/Time: 5/29/2012 10:04:50 PM

Test Laboratory: RIM Testing Services

**Vertical_Holster_Back_UMTS_Band_II_mid_chan_amb_temp_23.2_liq_t
emp_21.4C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.506 \text{ mho/m}$; $\epsilon_r = 51.137$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.369 mW/g

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

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

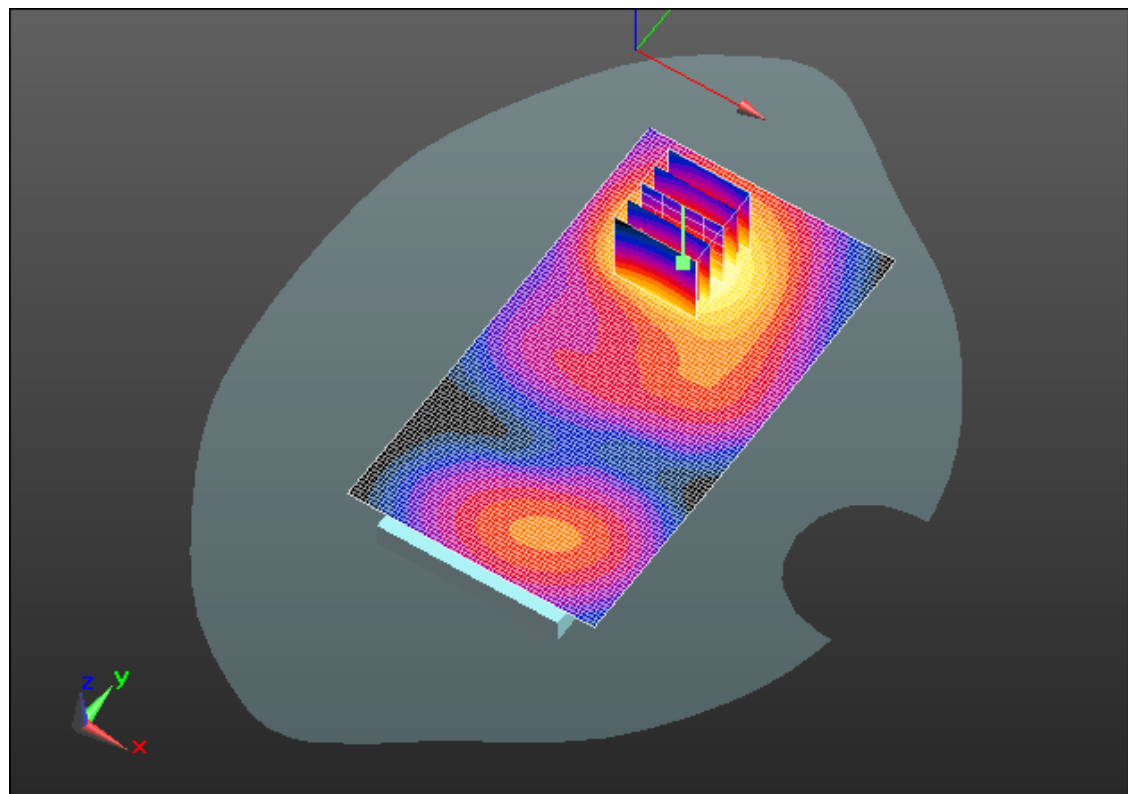
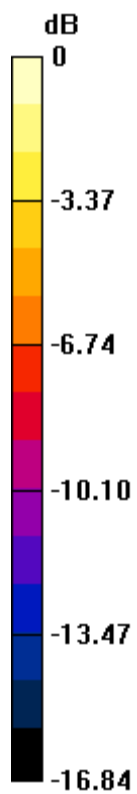
Reference Value = 4.603 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.4750

SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.174 mW/g

Maximum value of SAR (measured) = 0.360 mW/g

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0 dB = 0.360mW/g = -8.87 dB mW/g

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Date/Time: 5/29/2012 10:26:15 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_UMTS_Band_II_mid_chan_amb_temp_2
3.3_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A099B03

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.506 \text{ mho/m}$; $\epsilon_r = 51.137$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 0.484 mW/g

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

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

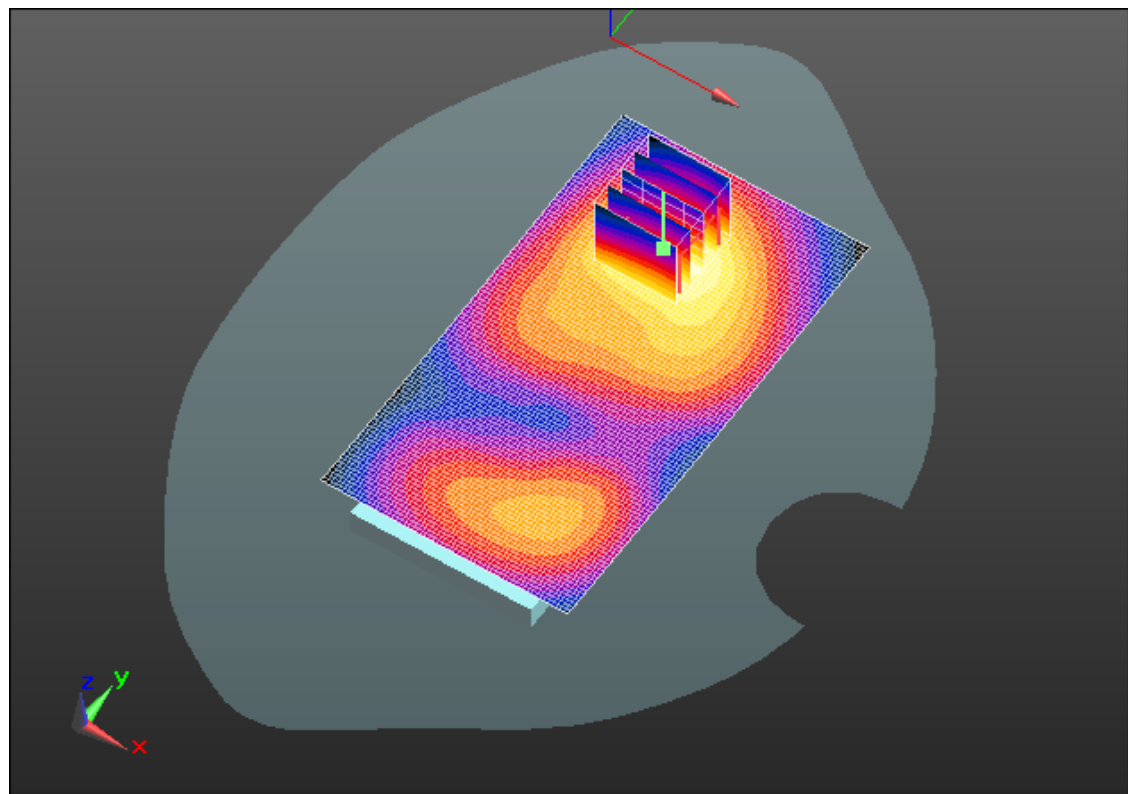
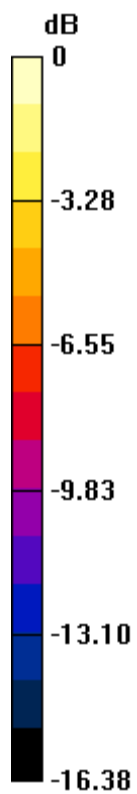
Reference Value = 5.253 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.6380

SAR(1 g) = 0.395 mW/g; SAR(10 g) = 0.231 mW/g

Maximum value of SAR (measured) = 0.477 mW/g

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0 dB = 0.480mW/g = -6.38 dB mW/g

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Date/Time: 7/31/2012 12:12:01 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_Headset_UMTS_Band_II_mid_chan_amb_temp_2
3.4_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.533 \text{ mho/m}$; $\epsilon_r = 50.995$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 0.600 mW/g

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

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

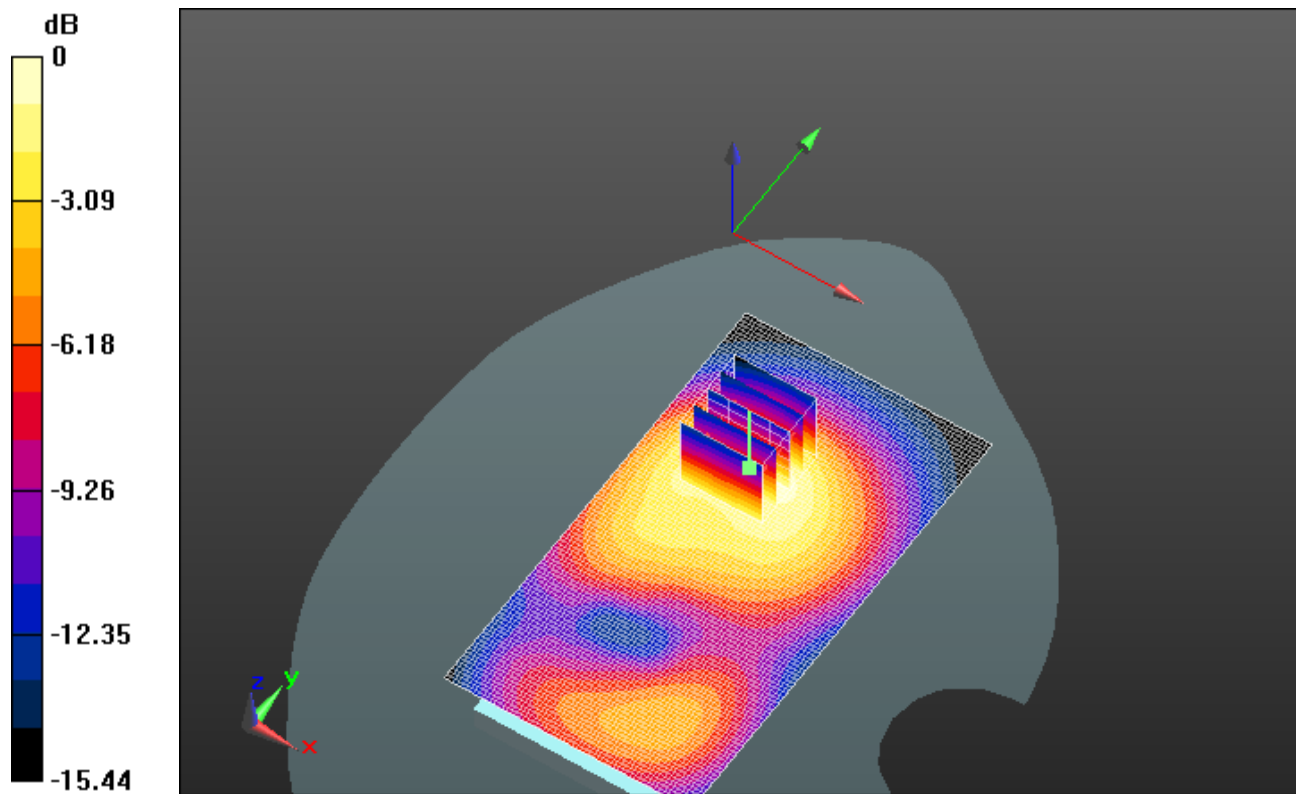
Reference Value = 8.494 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.7580

SAR(1 g) = 0.473 mW/g; SAR(10 g) = 0.283 mW/g

Maximum value of SAR (measured) = 0.554 mW/g

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0 dB = 0.550mW/g = -5.19 dB mW/g

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Date/Time: 7/23/2012 7:04:17 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_802.11b_mid_chan_amb_temp_24.2_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11 b (2450); Frequency: 2437 MHz

Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.922 \text{ mho/m}$; $\epsilon_r = 52.565$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.089 mW/g

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

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

Reference Value = 2.377 V/m ; Power Drift = 0.0028 dB

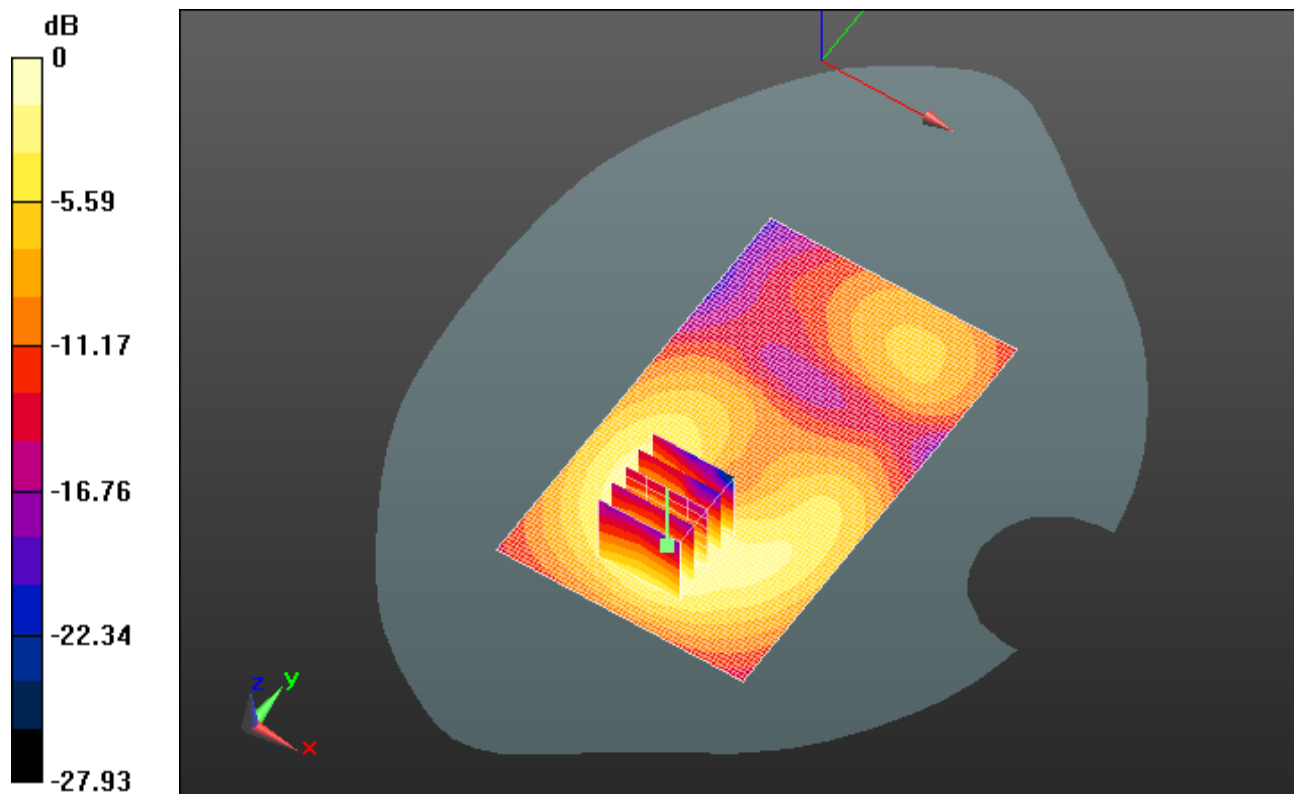
Peak SAR (extrapolated) = 0.1360

SAR(1 g) = 0.071 mW/g ; SAR(10 g) = 0.038 mW/g

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.089 mW/g



0 dB = 0.090mW/g = -20.92 dB mW/g

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 7/23/2012 8:30:59 PM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_802.11b_mid_chan_amb_temp_23.5_liq_temp_2

2.6C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11 b (2450); Frequency: 2437 MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.922$ mho/m; $\epsilon_r = 52.565$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

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

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

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

Reference Value = 2.565 V/m; Power Drift = 0.14 dB

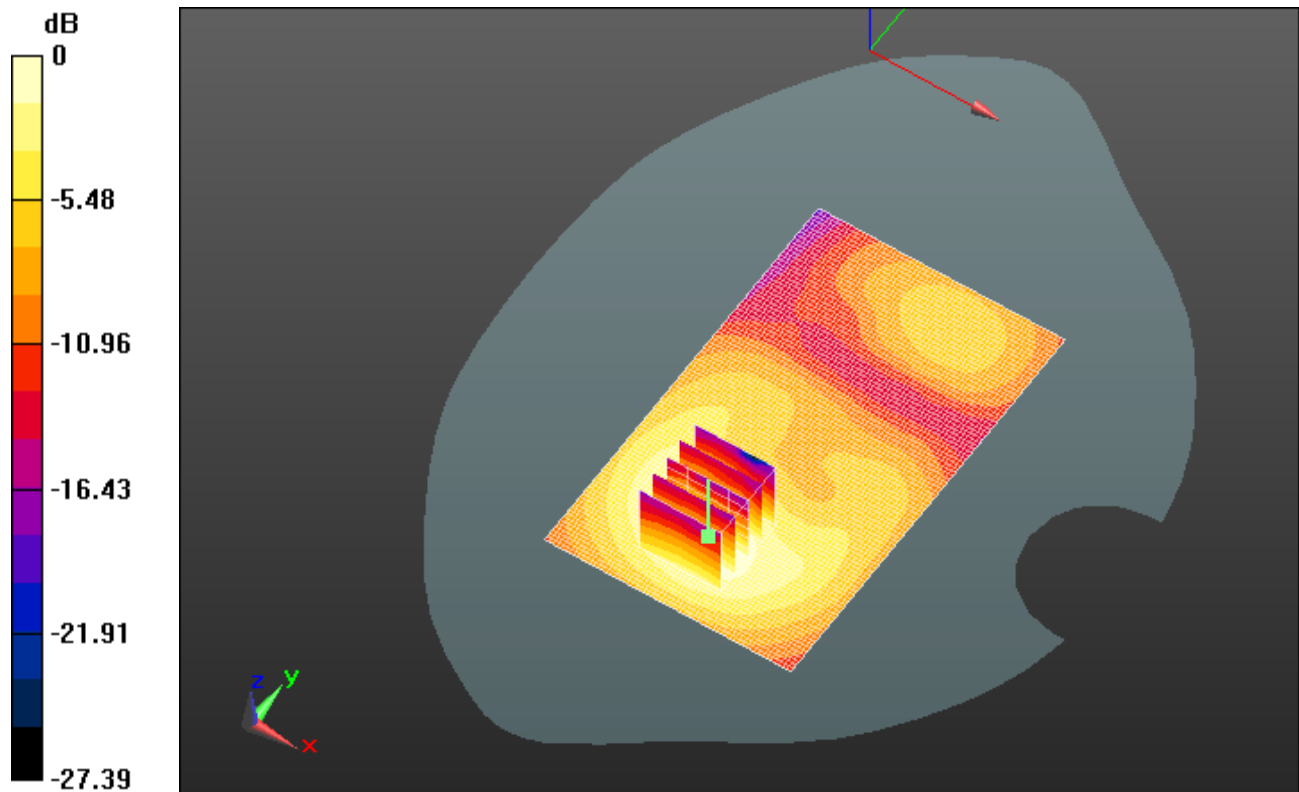
Peak SAR (extrapolated) = 0.1110

SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.033 mW/g

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Info: Interpolated medium parameters used for SAR evaluation.

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



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

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 7/23/2012 9:05:34 PM

Test Laboratory: RIM Testing Services

**Vertical_Holster_Front_802.11b_mid_chan_amb_temp_23.4_liq_temp_2
2.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11 b (2450); Frequency: 2437 MHz

Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.922 \text{ mho/m}$; $\epsilon_r = 52.565$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.034 mW/g

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

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

Reference Value = 2.361 V/m ; Power Drift = -0.02 dB

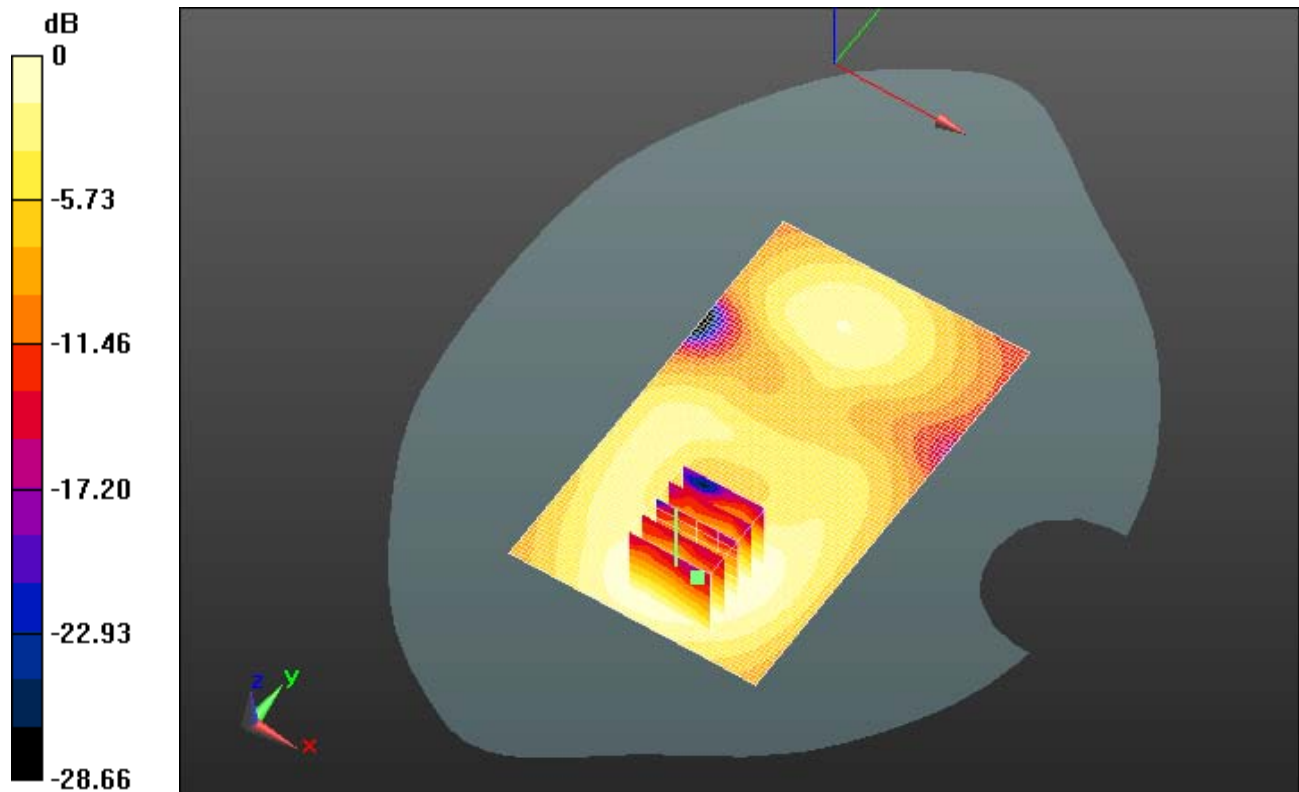
Peak SAR (extrapolated) = 0.0490

SAR(1 g) = 0.028 mW/g ; SAR(10 g) = 0.016 mW/g

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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.033 mW/g



0 dB = 0.030mW/g = -30.46 dB mW/g

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 8/9/2012 9:42:10 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_802.11a_low_band_chan_36_amb_temp_23.7_liq_
temp_21.7C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11a ; Frequency: 5180 MHz

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 5.199 \text{ mho/m}$; $\epsilon_r = 46.812$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.05, 4.05, 4.05); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - 2/Area Scan (91x151x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.148 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (7x7x9)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

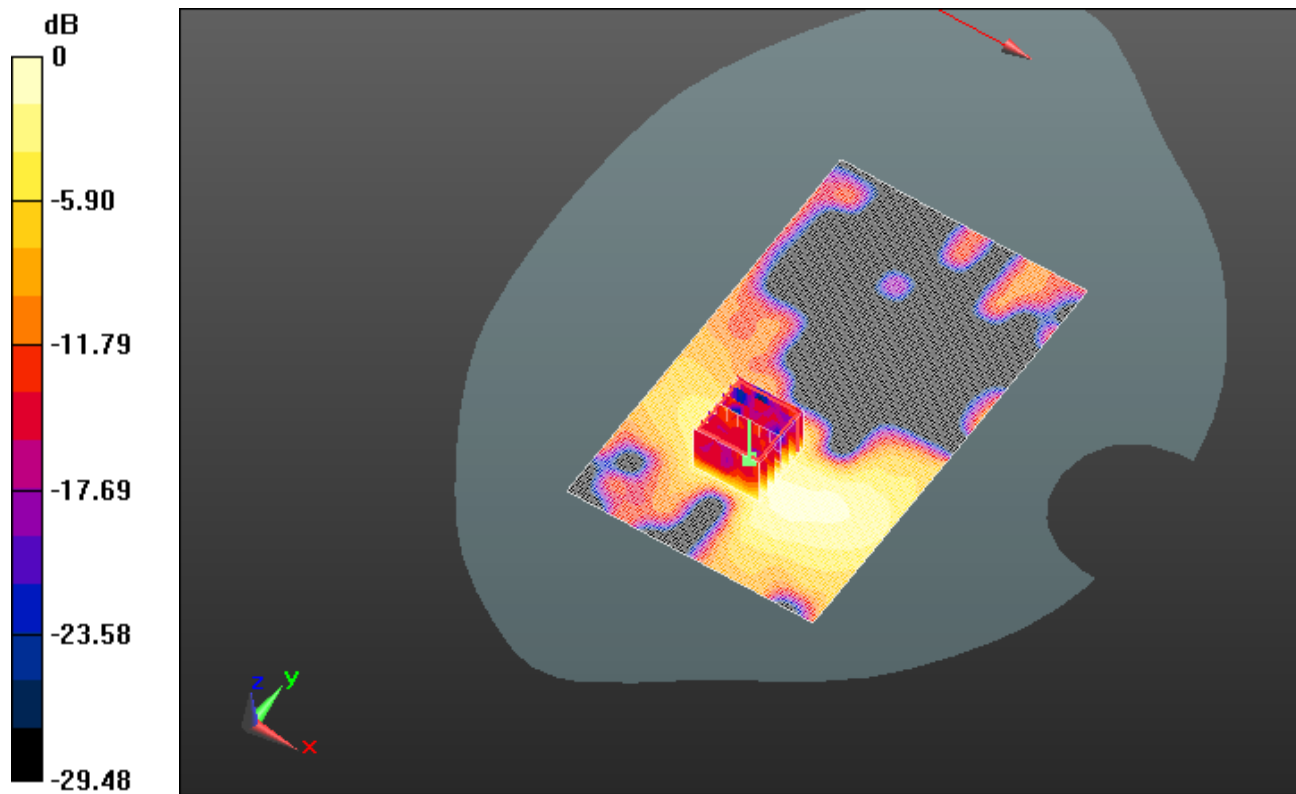
Reference Value = 5.803 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.2710

SAR(1 g) = 0.076 mW/g; SAR(10 g) = 0.027 mW/g

Maximum value of SAR (measured) = 0.146 mW/g

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0 dB = 0.150mW/g = -16.48 dB mW/g

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 8/9/2012 10:54:11 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_802.11a_mid_band_chan_52_amb_temp_23.3_liq
_temp_21.7C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11a ; Frequency: 5260 MHz

Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 5.311 \text{ mho/m}$; $\epsilon_r = 46.606$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.05, 4.05, 4.05); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - 2/Area Scan (91x151x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.222 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (9x9x9)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

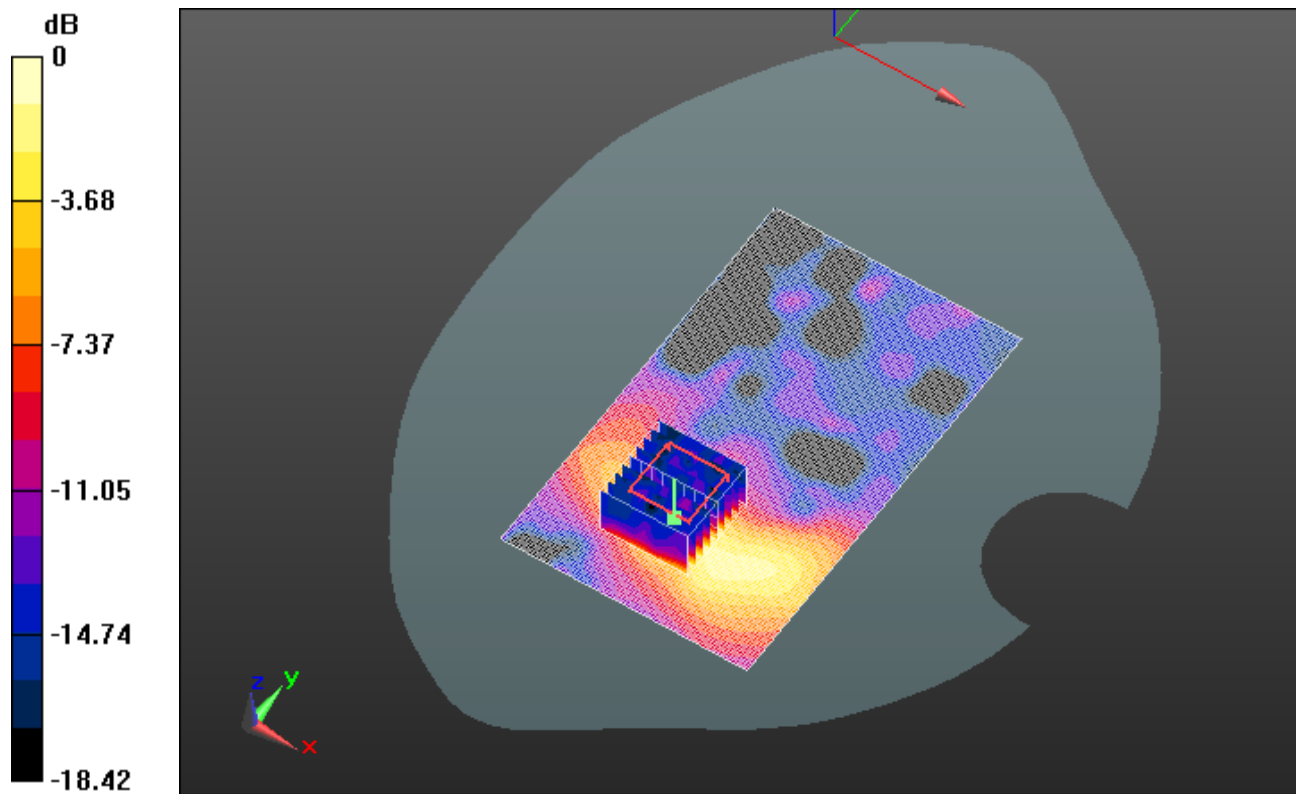
Reference Value = 6.989 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.3750

SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.046 mW/g

Maximum value of SAR (measured) = 0.217 mW/g

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0 dB = 0.220mW/g = -13.15 dB mW/g

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 8/10/2012 10:57:17 AM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_802.11a_upper_band_I_chan_104_amb_temp_23.
6_liq_temp_22.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11a ; Frequency: 5520 MHz

Medium parameters used: $f = 5520 \text{ MHz}$; $\sigma = 5.714 \text{ mho/m}$; $\epsilon_r = 48.021$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.62, 3.62, 3.62); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (51x71x1): Measurement grid:

$dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.284 mW/g

Configuration/Touch position - 2/Area Scan (91x151x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.265 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (9x9x9)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

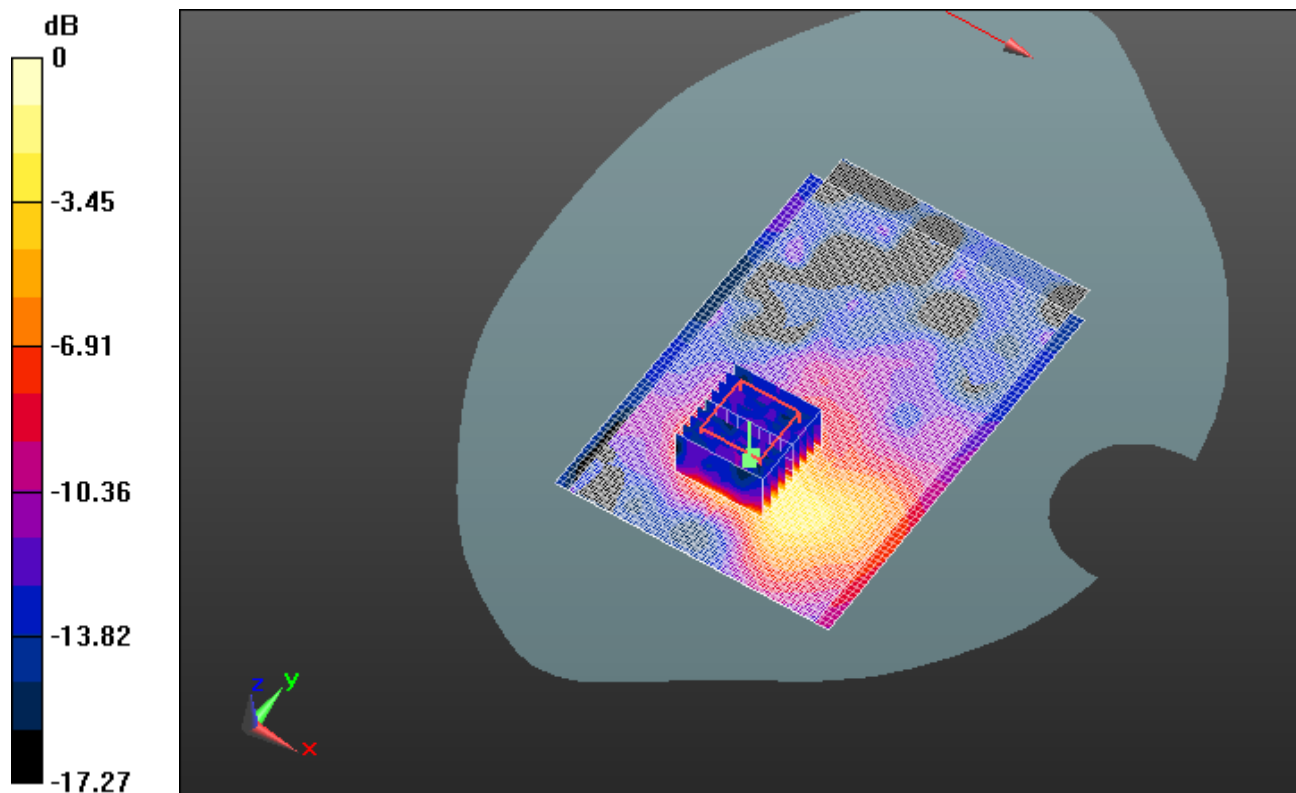
	Document Appendix C1 for the BlackBerry® Smartphone Model RFG81UW SAR Report			Page 51(60)
Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Reference Value = 7.574 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.4750

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.062 mW/g

Maximum value of SAR (measured) = 0.274 mW/g



0 dB = 0.270mW/g = -11.37 dB mW/g

	Document Appendix C1 for the BlackBerry® Smartphone Model RFG81UW SAR Report			Page 52(60)
Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 8/10/2012 11:46:58 AM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_802.11a_upper_band_II_chan_149_amb_temp_23
.5_liq_temp_22.6C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11a ; Frequency: 5745 MHz

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.917 \text{ mho/m}$; $\epsilon_r = 46.952$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.54, 3.54, 3.54); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (51x71x1): Measurement grid:

$dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.263 mW/g

Configuration/Touch position - 2/Area Scan (91x151x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.273 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (9x9x9)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

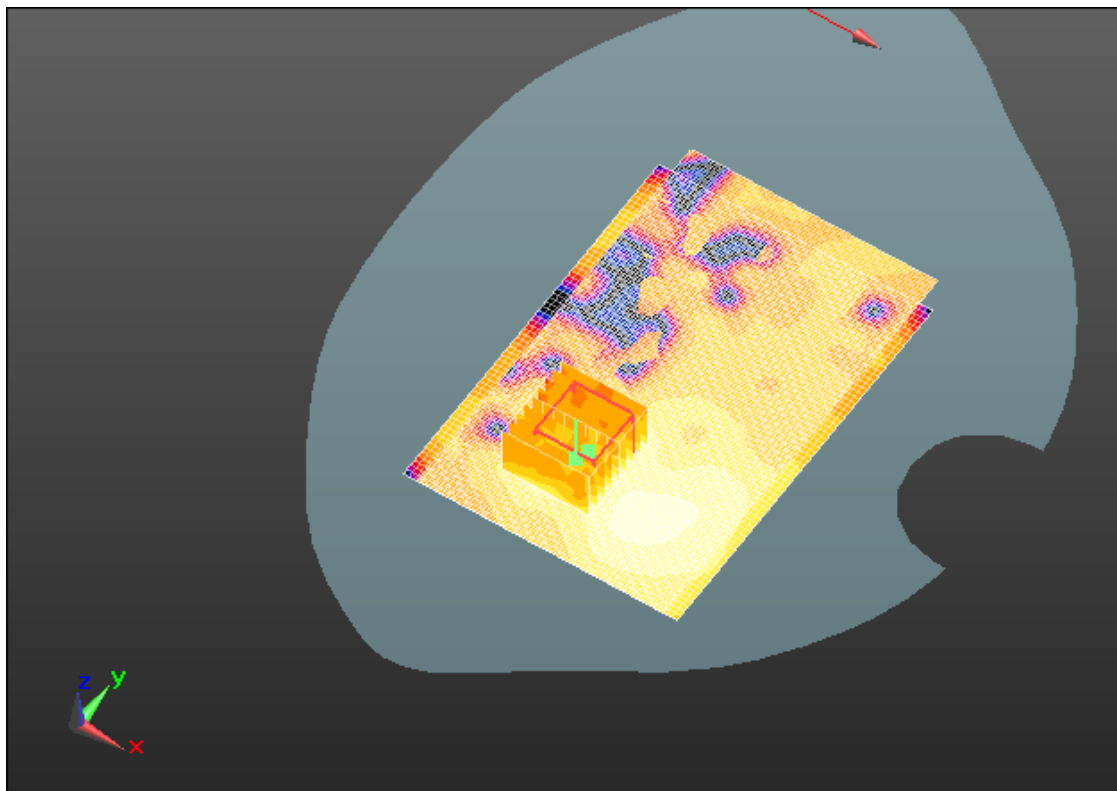
	Document Appendix C1 for the BlackBerry® Smartphone Model RFG81UW SAR Report			Page 53(60)
Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Reference Value = 7.782 V/m; Power Drift = -0.26 dB

Peak SAR (extrapolated) = 0.5210

SAR(1 g) = 0.136 mW/g; SAR(10 g) = 0.050 mW/g

Maximum value of SAR (measured) = 0.258 mW/g



0 dB = 0.260mW/g = -11.70 dB mW/g

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 8/10/2012 12:42:47 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Front_802.11a_upper_band_II_chan_149_amb_temp_23
.4_liq_temp_22.8C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11a ; Frequency: 5745 MHz

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.917 \text{ mho/m}$; $\epsilon_r = 46.952$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.54, 3.54, 3.54); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (51x71x1): Measurement grid:

$dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.229 mW/g

Configuration/Touch position - 2/Area Scan (91x151x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.227 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (9x9x9)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

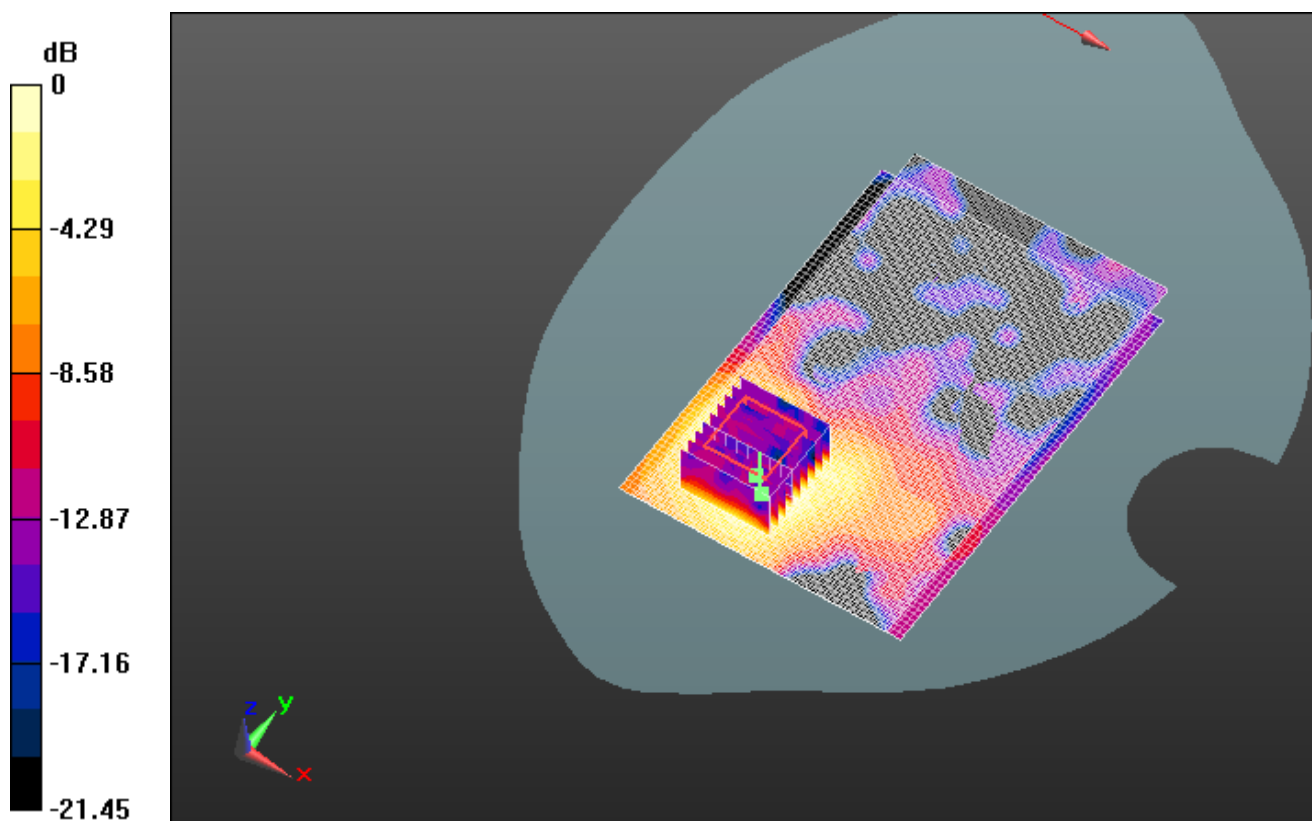
	Document Appendix C1 for the BlackBerry® Smartphone Model RFG81UW SAR Report			Page 55(60)
Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Reference Value = 7.024 V/m; Power Drift = -0.0095 dB

Peak SAR (extrapolated) = 0.4190

SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.055 mW/g

Maximum value of SAR (measured) = 0.224 mW/g



0 dB = 0.220mW/g = -13.15 dB mW/g

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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 8/10/2012 2:15:25 PM

Test Laboratory: RIM Testing Services

**Vertical_Holster_Back_802.11a_upper_band_II_chan_149_amb_temp_2
3.3_liq_temp_22.5C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11a ; Frequency: 5745 MHz

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.917 \text{ mho/m}$; $\epsilon_r = 46.952$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.54, 3.54, 3.54); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (51x71x1): Measurement grid:

$dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.229 mW/g

Configuration/Touch position - 2/Area Scan (91x151x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.270 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (9x9x9)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

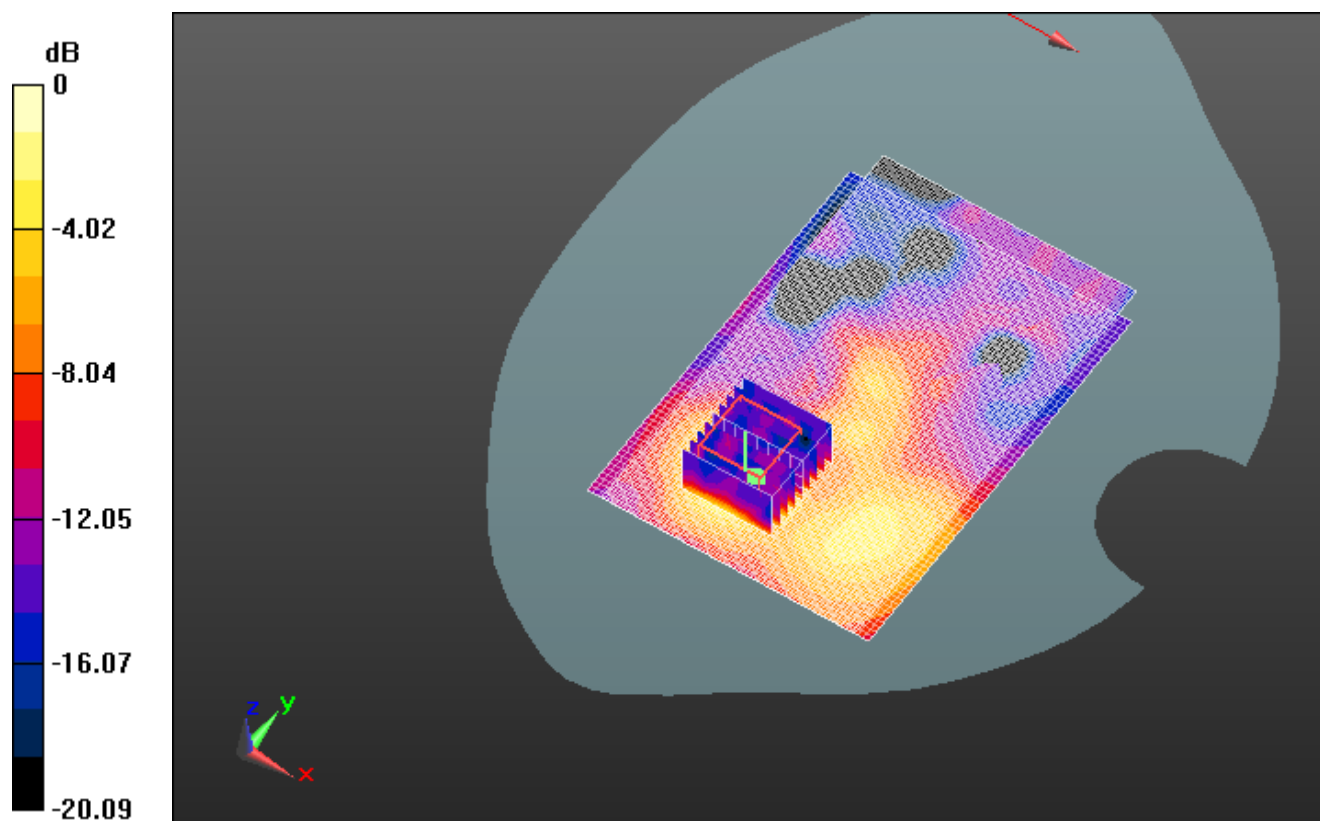
	Document Appendix C1 for the BlackBerry® Smartphone Model RFG81UW SAR Report			Page 57(60)
Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Reference Value = 7.608 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.5110

SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.059 mW/g

Maximum value of SAR (measured) = 0.272 mW/g



0 dB = 0.270mW/g = -11.37 dB mW/g

	Document Appendix C1 for the BlackBerry® Smartphone Model RFG81UW SAR Report			Page 58(60)
Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Date/Time: 8/10/2012 1:27:33 PM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_802.11a_upper_band_II_chan_149_amb
_temp_23.4_liq_temp_22.8C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2A4A5839

Communication System: 802.11a ; Frequency: 5745 MHz

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.917 \text{ mho/m}$; $\epsilon_r = 46.952$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(3.54, 3.54, 3.54); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (51x71x1): Measurement grid:

$dx=20\text{mm}$, $dy=20\text{mm}$

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

Configuration/Touch position - 2/Area Scan (91x151x1): Measurement grid:

$dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.205 mW/g

Configuration/Touch position - 2/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (9x9x9)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2.5\text{mm}$

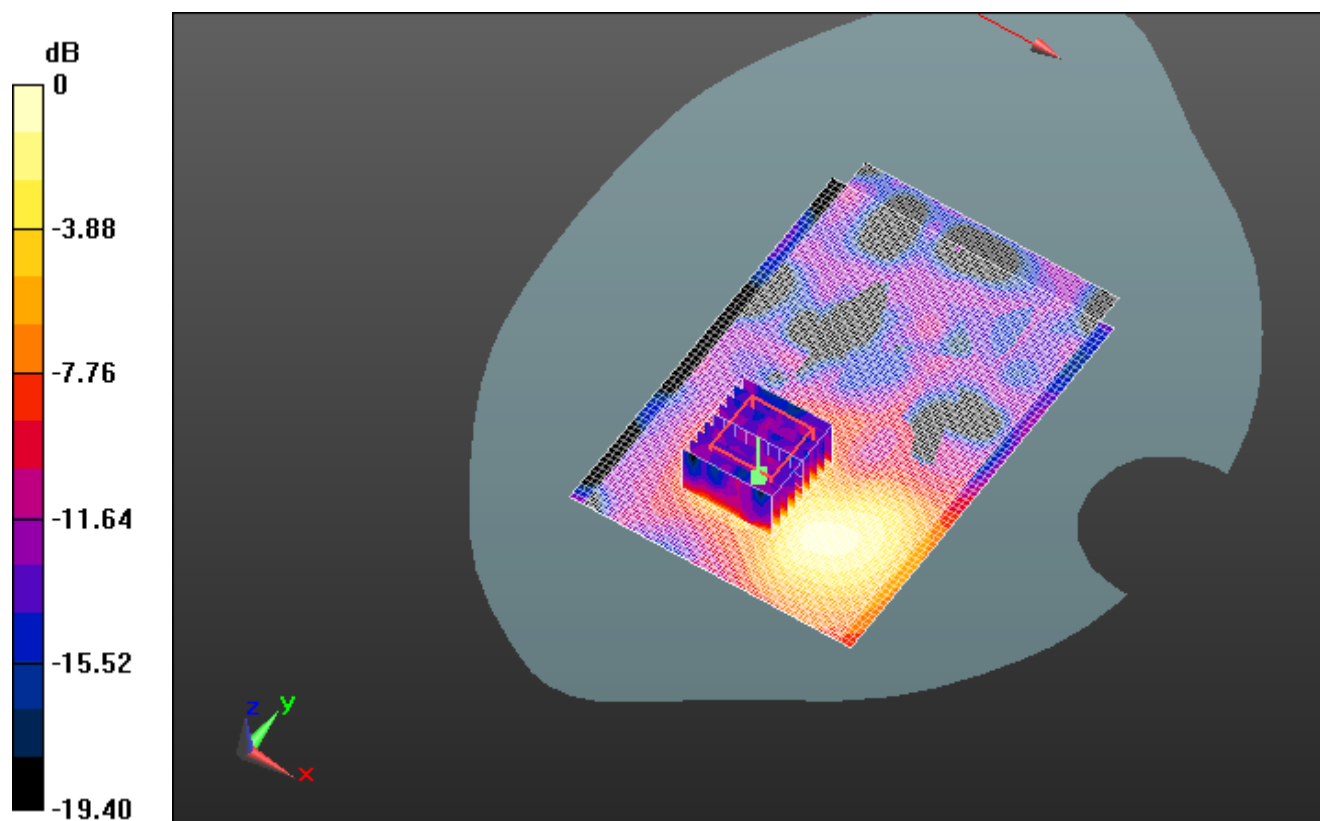
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Author Data Andrew Becker	Dates of Test May 29 – August 16, 2012	Test Report No RTS-6011-1208-28	FCC ID: L6ARFG80UW	IC ID 2503A-RFG80UW

Reference Value = 7.015 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 0.4140

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.044 mW/g

Maximum value of SAR (measured) = 0.209 mW/g



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

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Z axis plot for the worst case body configuration:

