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	Author Data Andrew Becker	Dates of Test February 23 – March 19, 2012	Test Report No RTS-5994-1203-78	FCC ID: L6ARFD30CW

APPENDIX C1: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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Date/Time: 3/16/2012 5:24:11 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_CDMA800_low_chan_amb_temp_22.4C_liq_temp_20.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297ECFF9

Communication System: CDMA 800; Frequency: 817.9 MHz

Medium parameters used (interpolated): $f = 817.9$ MHz; $\sigma = 0.962$ mho/m; $\epsilon_r = 54.79$; $\rho = 1000$ 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 (61x91x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.974 mW/g

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

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

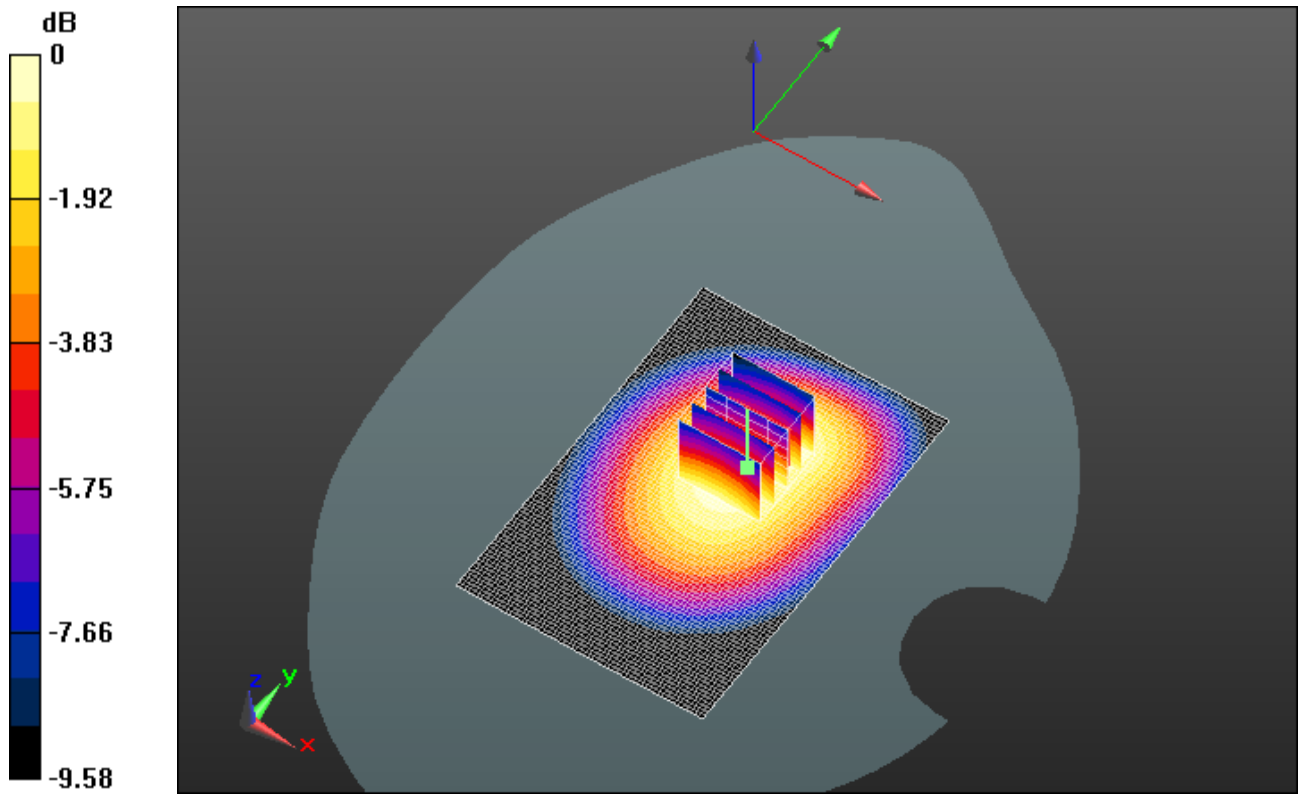
Reference Value = 31.319 V/m; Power Drift = -0.0089 dB

Peak SAR (extrapolated) = 1.1660


SAR(1 g) = 0.886 mW/g; SAR(10 g) = 0.646 mW/g

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

Maximum value of SAR (measured) = 0.992 mW/g



0 dB = 0.990mW/g = -0.09 dB mW/g

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Test Laboratory: RIM Testing Services

15mm_Spacer_Back_CDMA800_mid_chan_amb_temp_22.6C_liq_temp_20.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297ECFF9

Communication System: CDMA 800; Frequency: 820.5 MHz

Medium parameters used (interpolated): $f = 820.5$ MHz; $\sigma = 0.965$ mho/m; $\epsilon_r = 54.773$; $\rho = 1000$ 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 (61x91x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

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

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

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

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

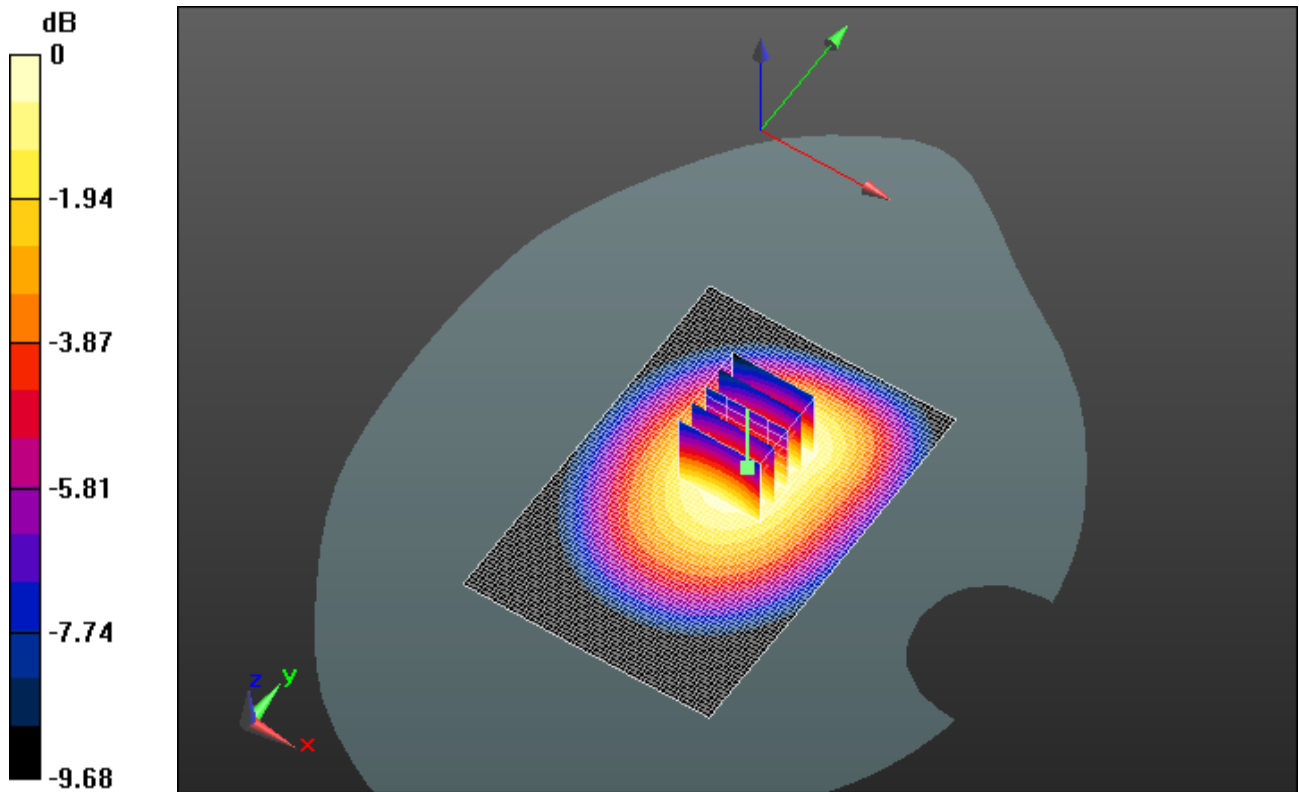
Reference Value = 30.957 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.1210


SAR(1 g) = 0.867 mW/g; SAR(10 g) = 0.636 mW/g

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

Maximum value of SAR (measured) = 0.967 mW/g



0 dB = 0.970mW/g = -0.26 dB mW/g

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Date/Time: 3/16/2012 4:39:53 PM

Test Laboratory: RIM Testing Services

15mm_Spacer_Back_CDMA800_high_chan_amb_temp_22.3C_liq_temp_20.9C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297ECFF9

Communication System: CDMA 800; Frequency: 823.1 MHz

Medium parameters used (interpolated): $f = 823.1$ MHz; $\sigma = 0.968$ mho/m; $\epsilon_r = 54.74$; $\rho = 1000$ 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 (61x91x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.931 mW/g

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

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

Reference Value = 30.935 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.0920

SAR(1 g) = 0.838 mW/g; SAR(10 g) = 0.615 mW/g

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

Maximum value of SAR (measured) = 0.931 mW/g

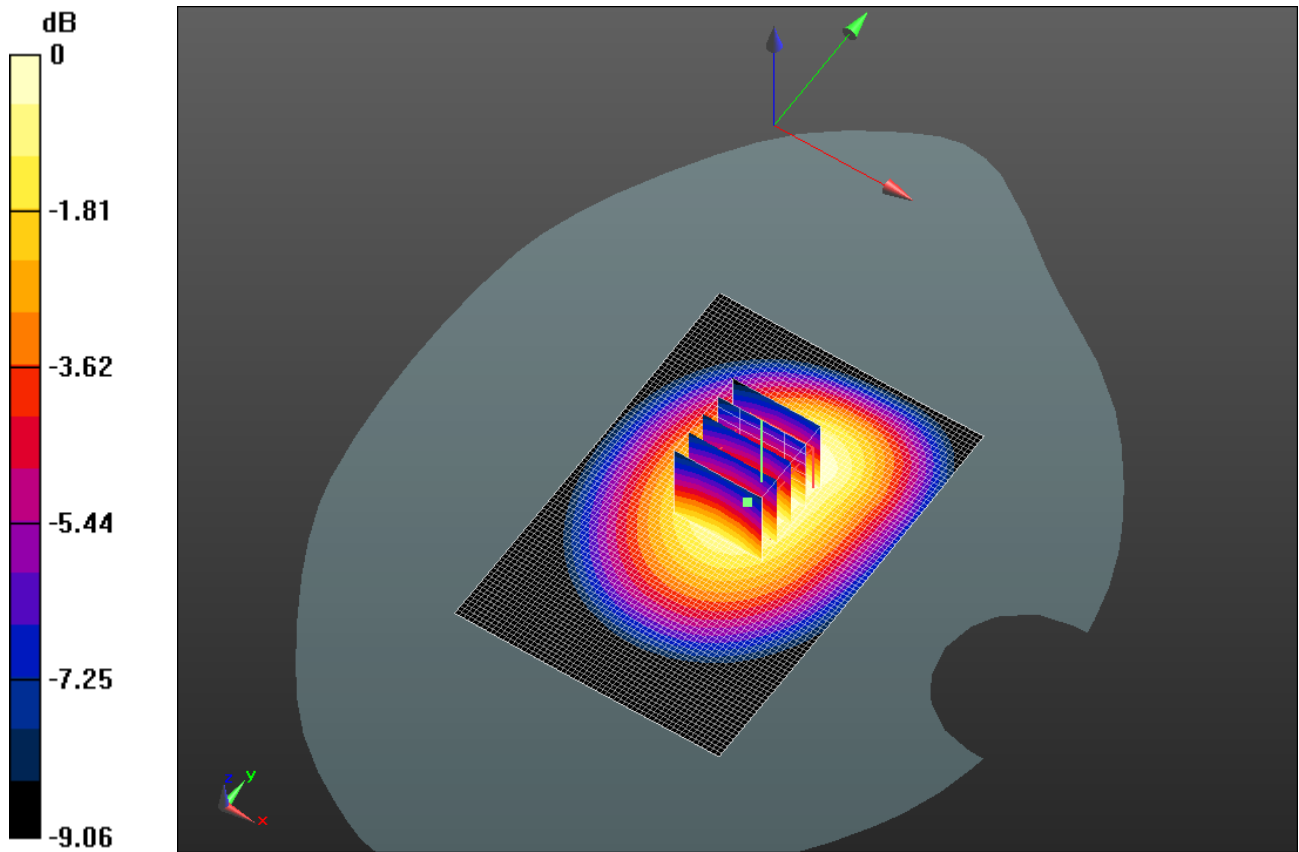
Author Data
Andrew Becker

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

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Date/Time: 3/19/2012 10:09:54 AM

Test Laboratory: RIM Testing Services

15mm_Spacer_Front_CDMA800_mid_chan_amb_temp_21.9C_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297ECFF9

Communication System: CDMA 800; Frequency: 820.5 MHz

Medium parameters used (interpolated): $f = 820.5$ MHz; $\sigma = 0.963$ mho/m; $\epsilon_r = 55.404$; $\rho = 1000$ 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 (61x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.769 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 = 27.411 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.9240

SAR(1 g) = 0.726 mW/g; SAR(10 g) = 0.543 mW/g

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

Maximum value of SAR (measured) = 0.805 mW/g

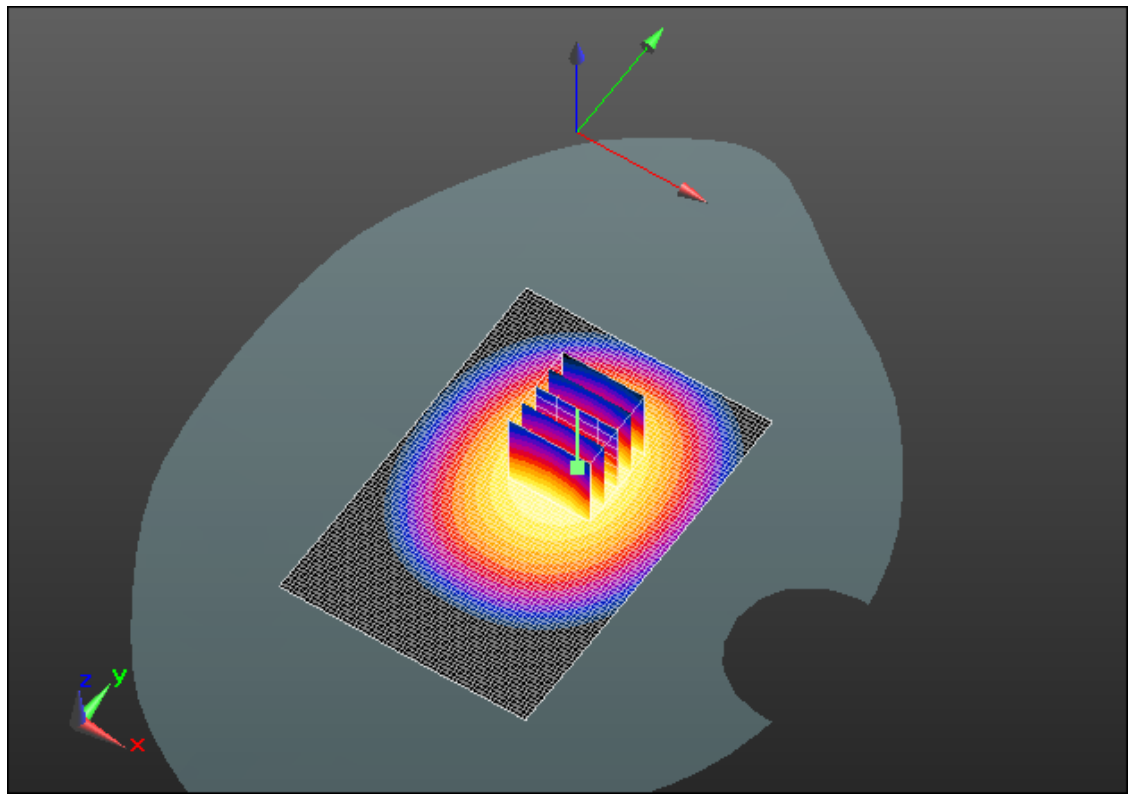
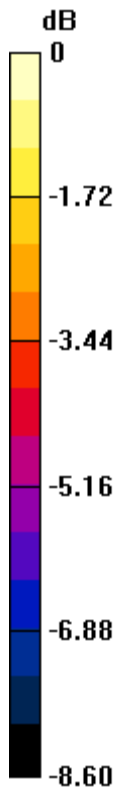
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0 dB = 0.810mW/g = -1.83 dB mW/g

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Date/Time: 3/19/2012 10:47:42 AM

Test Laboratory: RIM Testing Services

Vertical_Holster_Back_CDMA800_mid_chan_amb_temp_22.2_liq_temp_21.4C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297ECFF9

Communication System: CDMA 800; Frequency: 820.5 MHz

Medium parameters used (interpolated): $f = 820.5$ MHz; $\sigma = 0.963$ mho/m; $\epsilon_r = 55.404$; $\rho = 1000$ 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 (61x91x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.819 mW/g

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

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

Reference Value = 29.087 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.9490

SAR(1 g) = 0.740 mW/g; SAR(10 g) = 0.546 mW/g

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

Maximum value of SAR (measured) = 0.824 mW/g

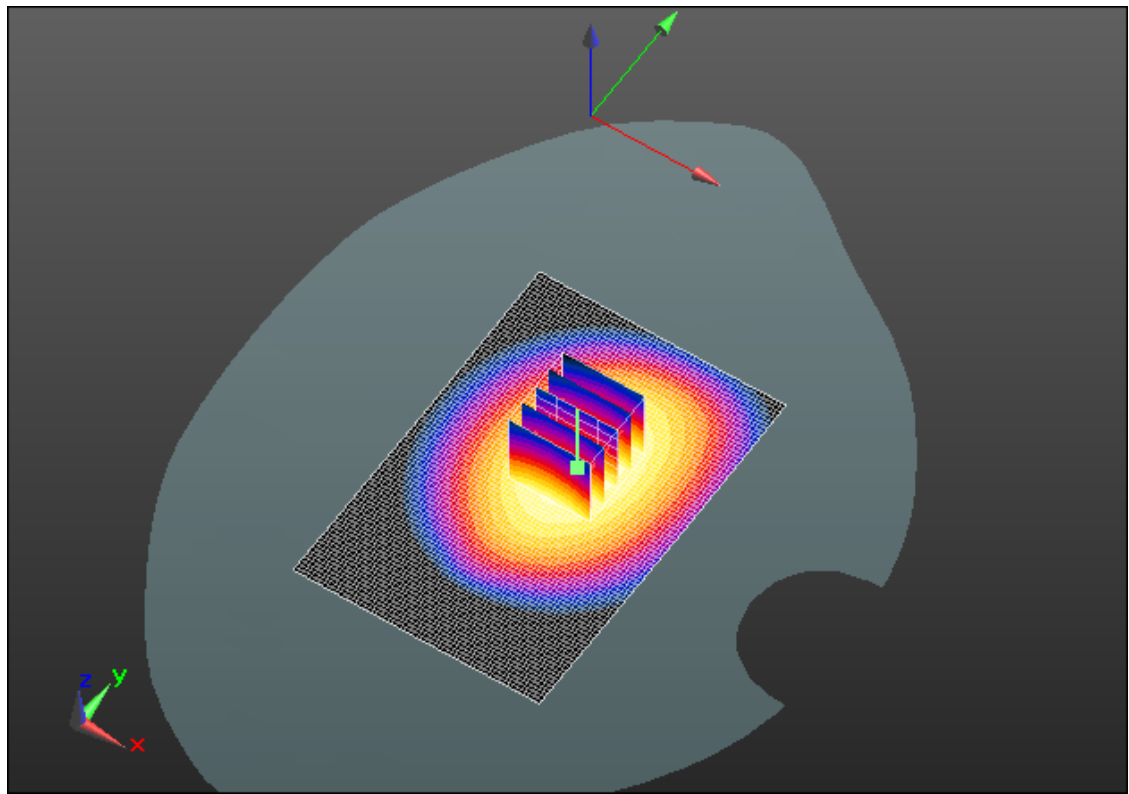
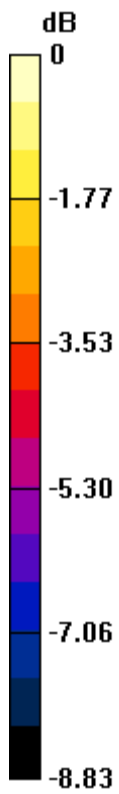
Author Data
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Test Report No
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0 dB = 0.820mW/g = -1.72 dB mW/g

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Date/Time: 3/19/2012 10:29:28 AM

Test Laboratory: RIM Testing Services

**15mm_Spacer_Back_Headset_CDMA800_mid_chan_amb_temp_22.7_li
q_temp_21.4C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 297ECFF9

Communication System: CDMA 800; Frequency: 820.5 MHz

Medium parameters used (interpolated): $f = 820.5$ MHz; $\sigma = 0.963$ mho/m; $\epsilon_r = 55.404$; $\rho = 1000$ 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 (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.636 mW/g

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

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

Reference Value = 22.234 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.7880

SAR(1 g) = 0.565 mW/g; SAR(10 g) = 0.401 mW/g

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

Maximum value of SAR (measured) = 0.639 mW/g

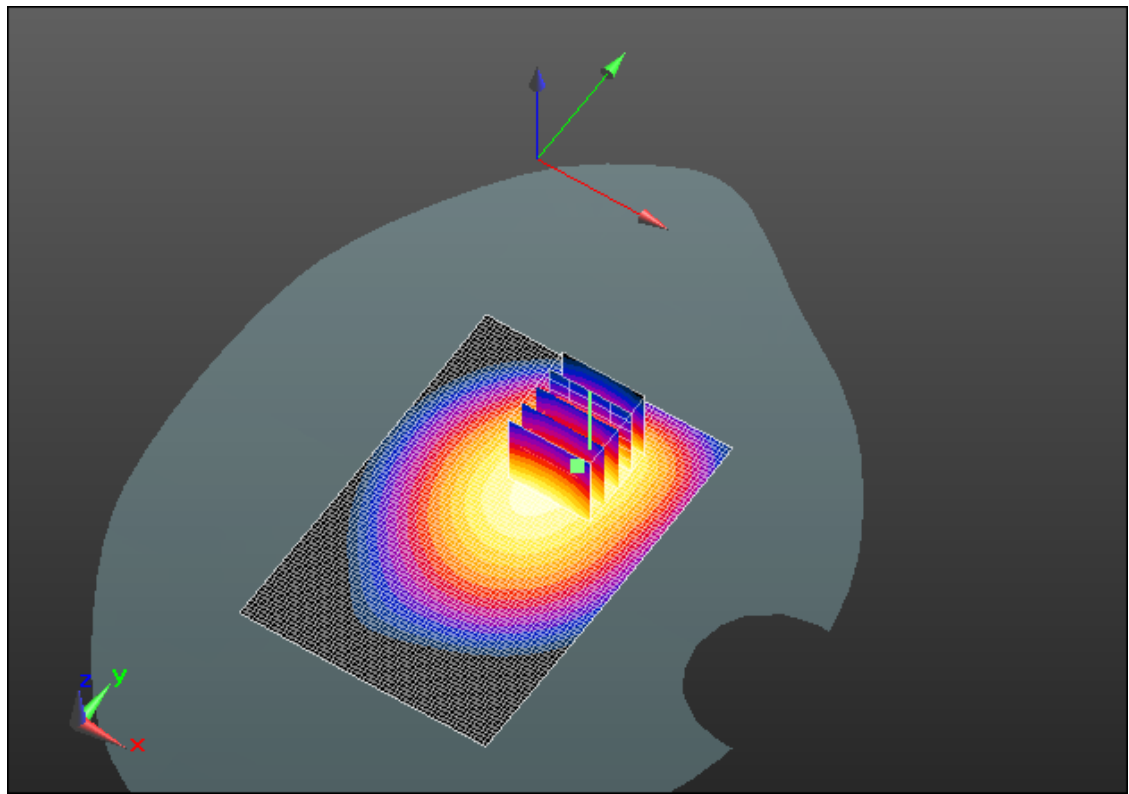
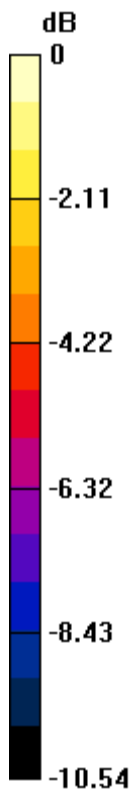
Author Data
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IC ID
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0 dB = 0.640mW/g = -3.88 dB mW/g

Axis plot for the worst case body configuration

