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APPENDIX C2: SAR DISTRIBUTION PLOTS FOR MOBILE HOT SPOT

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Date/Time: 3/9/2012 12:32:59 PM

Test Laboratory: RIM Testing Services

MHS_Back_CDMA1700_low_chan_amb_temp_22.8C_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1711.25 MHz

Medium parameters used (interpolated): $f = 1711.25$ MHz; $\sigma = 1.512$ mho/m; $\epsilon_r = 54.257$; $\rho = 1000$ kg/m³

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 (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.018 mW/g

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

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

Reference Value = 17.386 V/m; Power Drift = 0.10 dB

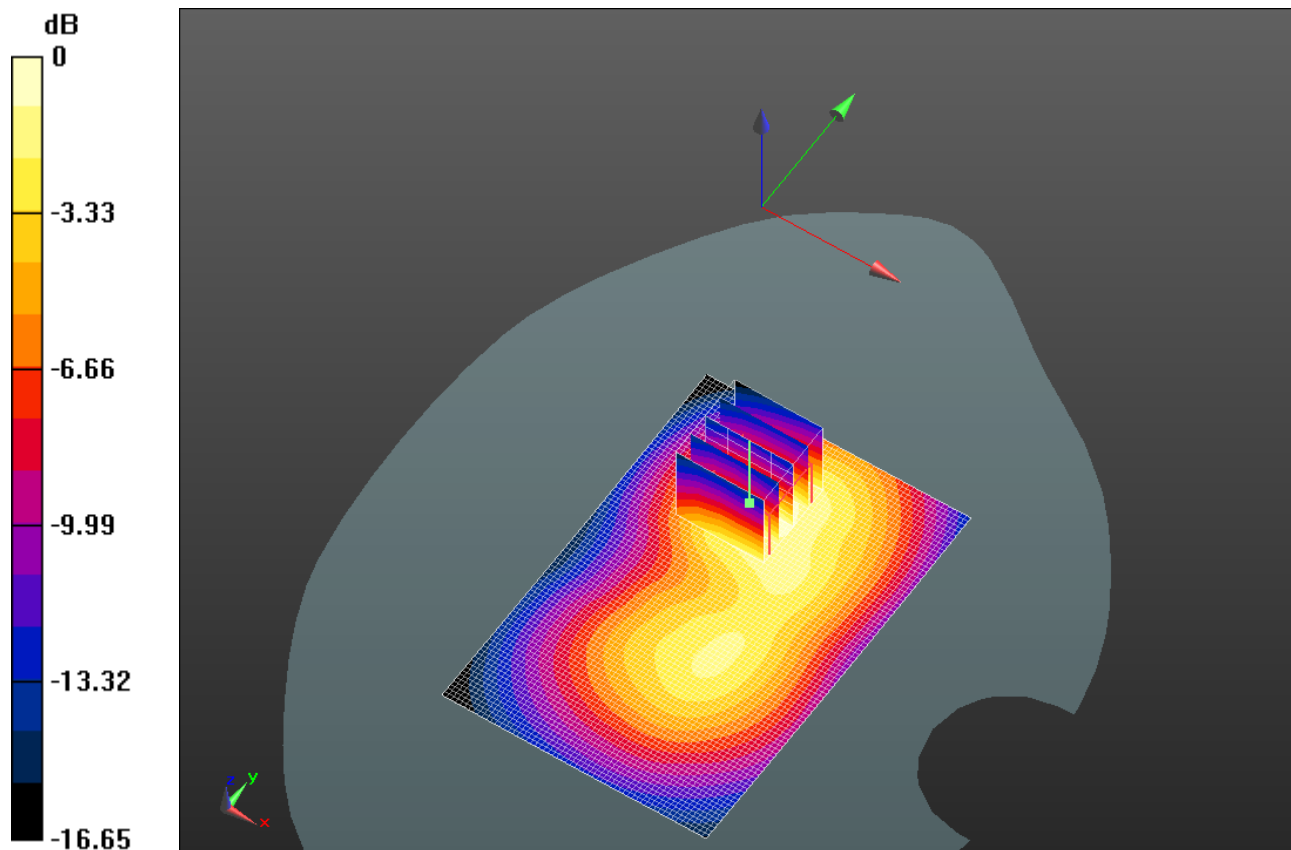
Peak SAR (extrapolated) = 1.3840

SAR(1 g) = 0.822 mW/g; SAR(10 g) = 0.476 mW/g

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

Maximum value of SAR (measured) = 1.003 mW/g

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0 dB = 1.000mW/g = 0 dB mW/g

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Date/Time: 3/9/2012 12:18:17 PM

Test Laboratory: RIM Testing Services

MHS_Back_CDMA1700_mid_chan_amb_temp_22.8C_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz
Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.531$ mho/m; $\epsilon_r = 54.234$;
 $\rho = 1000$ kg/m³
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 (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.129 mW/g

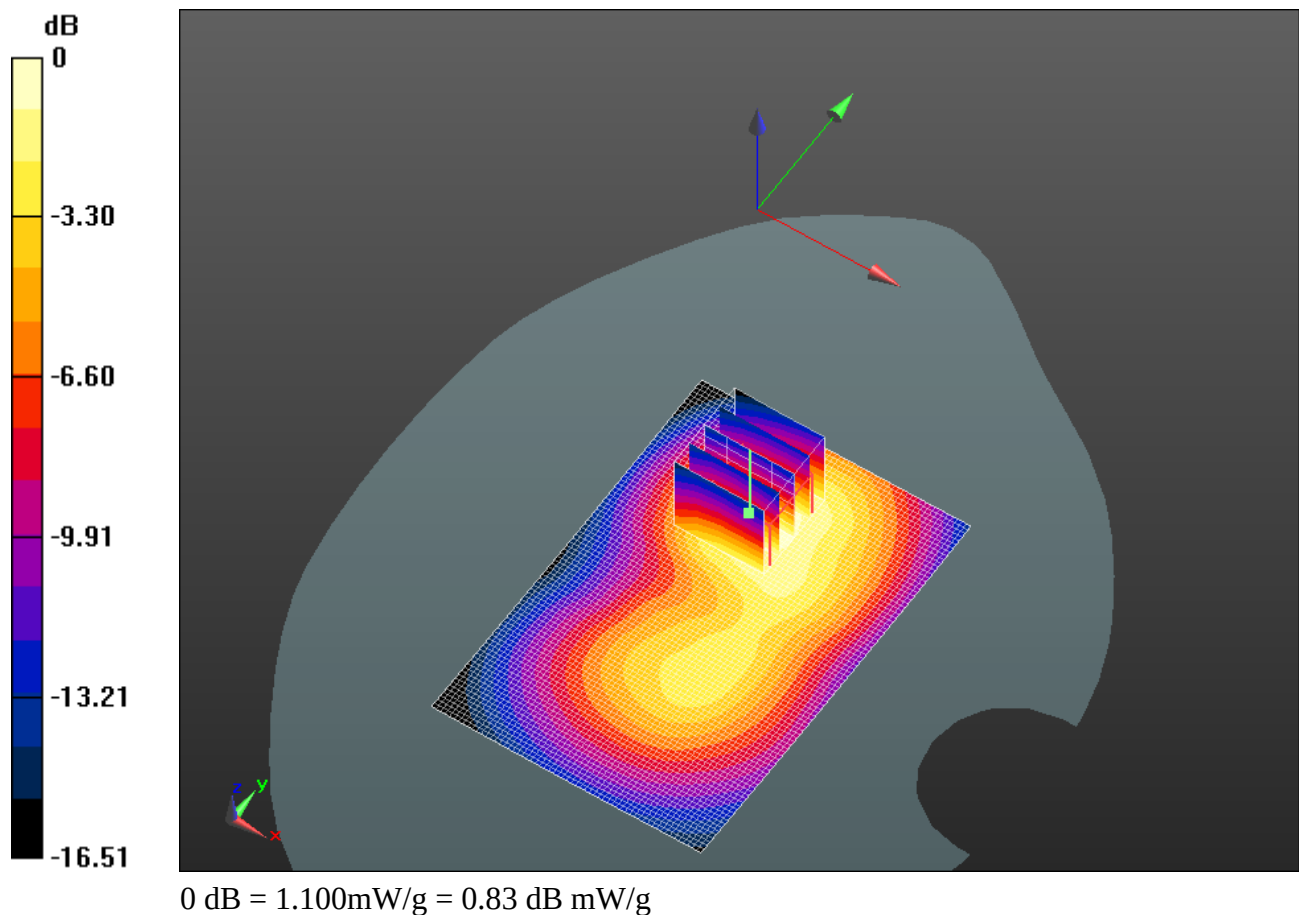
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.816 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.5000
SAR(1 g) = 0.897 mW/g; SAR(10 g) = 0.525 mW/g

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

Maximum value of SAR (measured) = 1.102 mW/g

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Date/Time: 3/9/2012 12:48:21 PM

Test Laboratory: RIM Testing Services

MHS_Back_CDMA1700_high_chan_amb_temp_22.8C_liq_temp_21.3C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz

Medium parameters used (interpolated): $f = 1753.75 \text{ MHz}$; $\sigma = 1.556 \text{ mho/m}$; $\epsilon_r = 54.108$; $\rho = 1000 \text{ kg/m}^3$

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 (61x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.180 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 = 16.252 V/m ; Power Drift = 0.0093 dB

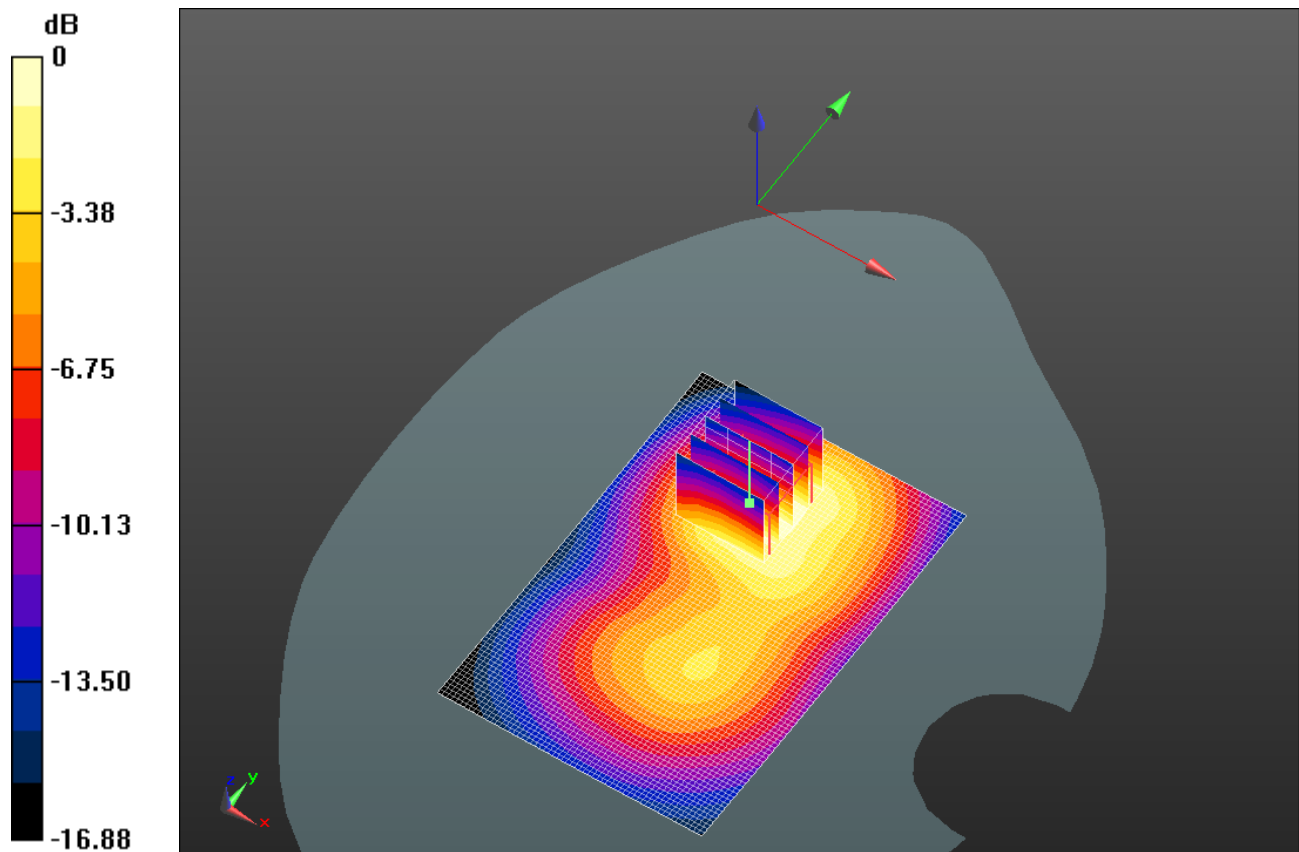
Peak SAR (extrapolated) = 1.5700

SAR(1 g) = 0.945 mW/g ; SAR(10 g) = 0.558 mW/g

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

Maximum value of SAR (measured) = 1.153 mW/g

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0 dB = 1.150mW/g = 1.21 dB mW/g

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Date/Time: 3/9/2012 1:57:22 PM

Test Laboratory: RIM Testing Services

MHS_Front_CDMA1700_low_chan_amb_temp_22.7C_liq_temp_20.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1711.25 MHz

Medium parameters used (interpolated): $f = 1711.25$ MHz; $\sigma = 1.512$ mho/m; $\epsilon_r = 54.257$; $\rho = 1000$ kg/m³

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 (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.941 mW/g

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

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

Reference Value = 16.046 V/m; Power Drift = -0.02 dB

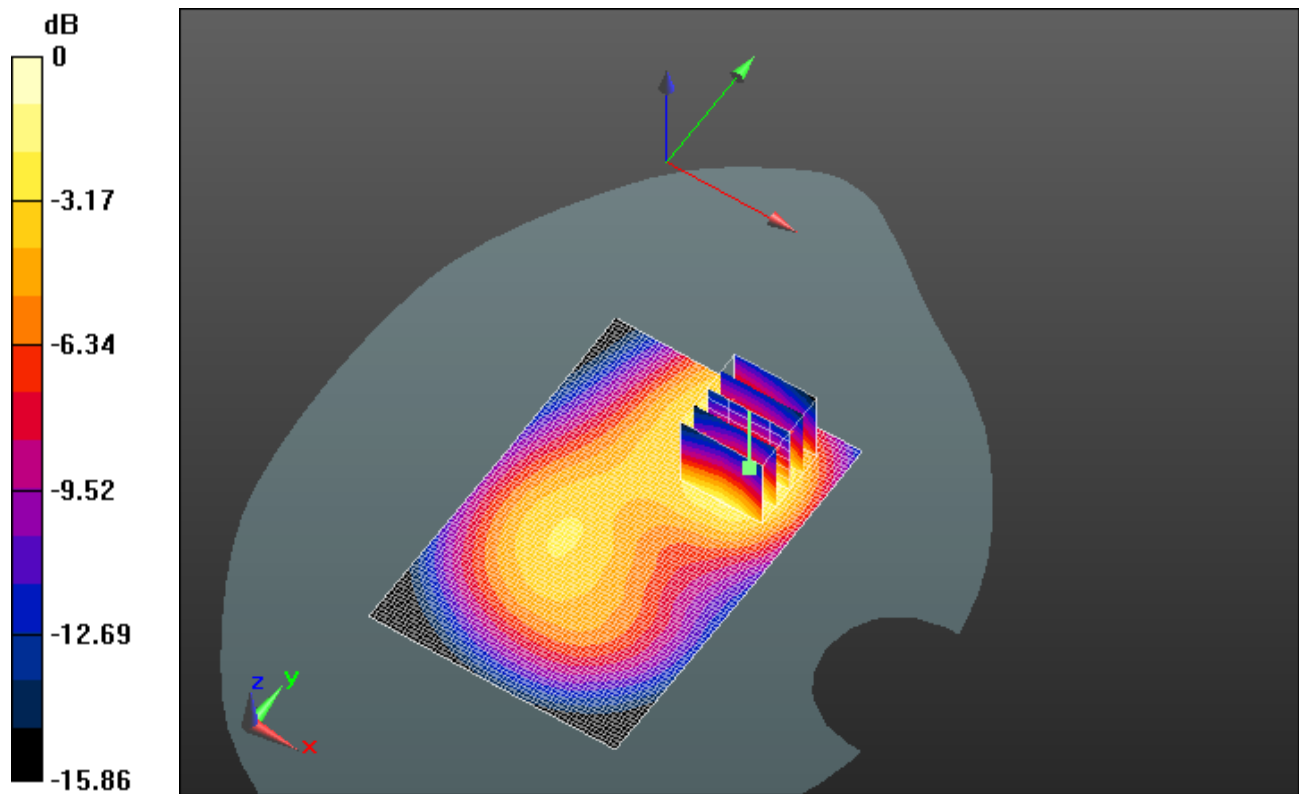
Peak SAR (extrapolated) = 1.3140

SAR(1 g) = 0.794 mW/g; SAR(10 g) = 0.459 mW/g

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

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

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

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Date/Time: 3/9/2012 1:42:13 PM

Test Laboratory: RIM Testing Services

MHS_Front_CDMA1700_mid_chan_amb_temp_22.7C_liq_temp_20.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.531$ mho/m; $\epsilon_r = 54.234$;
 $\rho = 1000$ kg/m³

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 (61x91x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.064 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 = 16.255 V/m; Power Drift = -0.06 dB

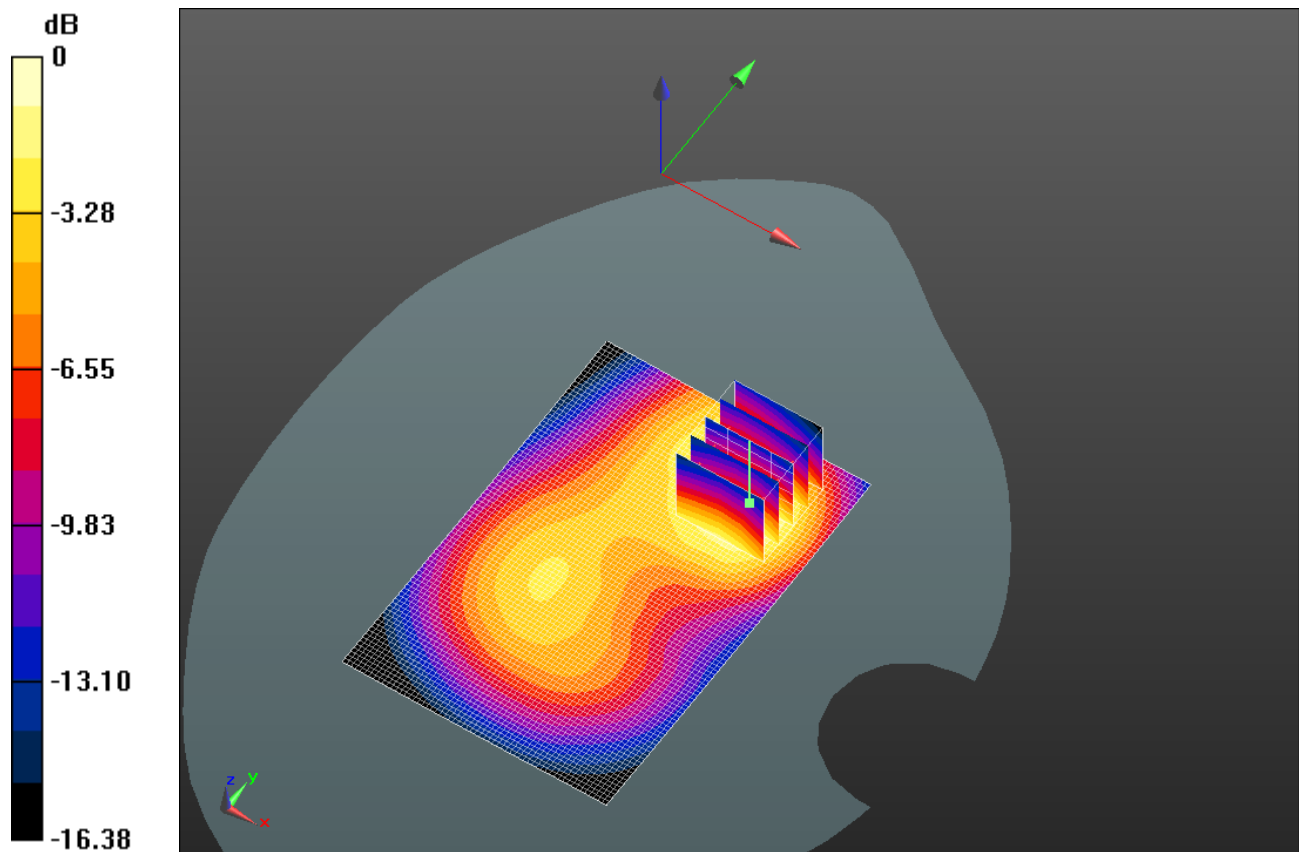
Peak SAR (extrapolated) = 1.4710

SAR(1 g) = 0.884 mW/g; SAR(10 g) = 0.512 mW/g

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

Maximum value of SAR (measured) = 1.077 mW/g

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0 dB = 1.080mW/g = 0.67 dB mW/g

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Date/Time: 3/9/2012 2:12:21 PM

Test Laboratory: RIM Testing Services

MHS_Front_CDMA1700_high_chan_amb_temp_22.7C_liq_temp_20.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz

Medium parameters used (interpolated): $f = 1753.75$ MHz; $\sigma = 1.556$ mho/m; $\epsilon_r = 54.108$; $\rho = 1000$ kg/m³

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 (61x91x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.068 mW/g

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

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

Reference Value = 16.021 V/m; Power Drift = -0.0082 dB

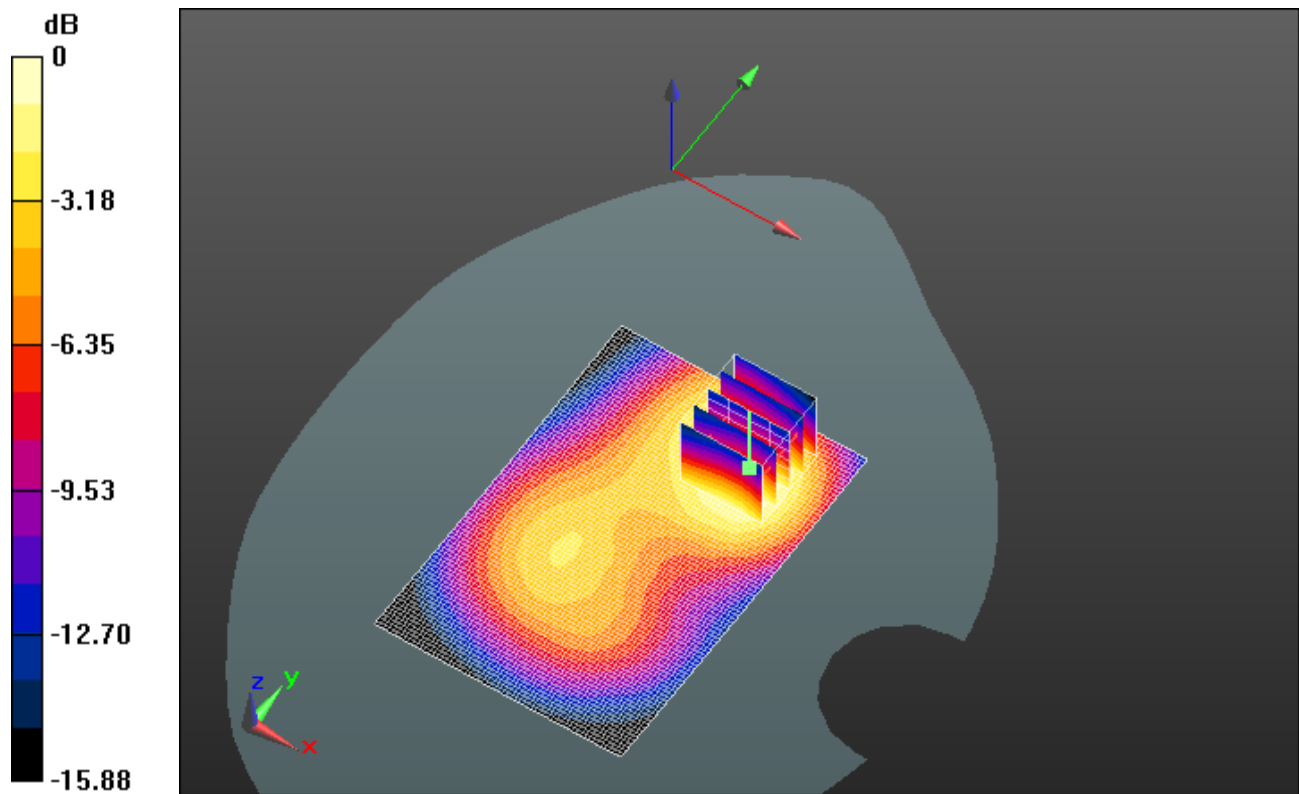
Peak SAR (extrapolated) = 1.4720

SAR(1 g) = 0.884 mW/g; SAR(10 g) = 0.515 mW/g

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

Maximum value of SAR (measured) = 1.034 mW/g

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0 dB = 1.030mW/g = 0.26 dB mW/g

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Date/Time: 3/9/2012 2:55:37 PM

Test Laboratory: RIM Testing Services

MHS_Right_CDMA1700_mid_chan_amb_temp_22.7C_liq_temp_20.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.531$ mho/m; $\epsilon_r = 54.234$;
 $\rho = 1000$ kg/m³

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 (31x101x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.381 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

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

Reference Value = 14.493 V/m; Power Drift = 0.06 dB

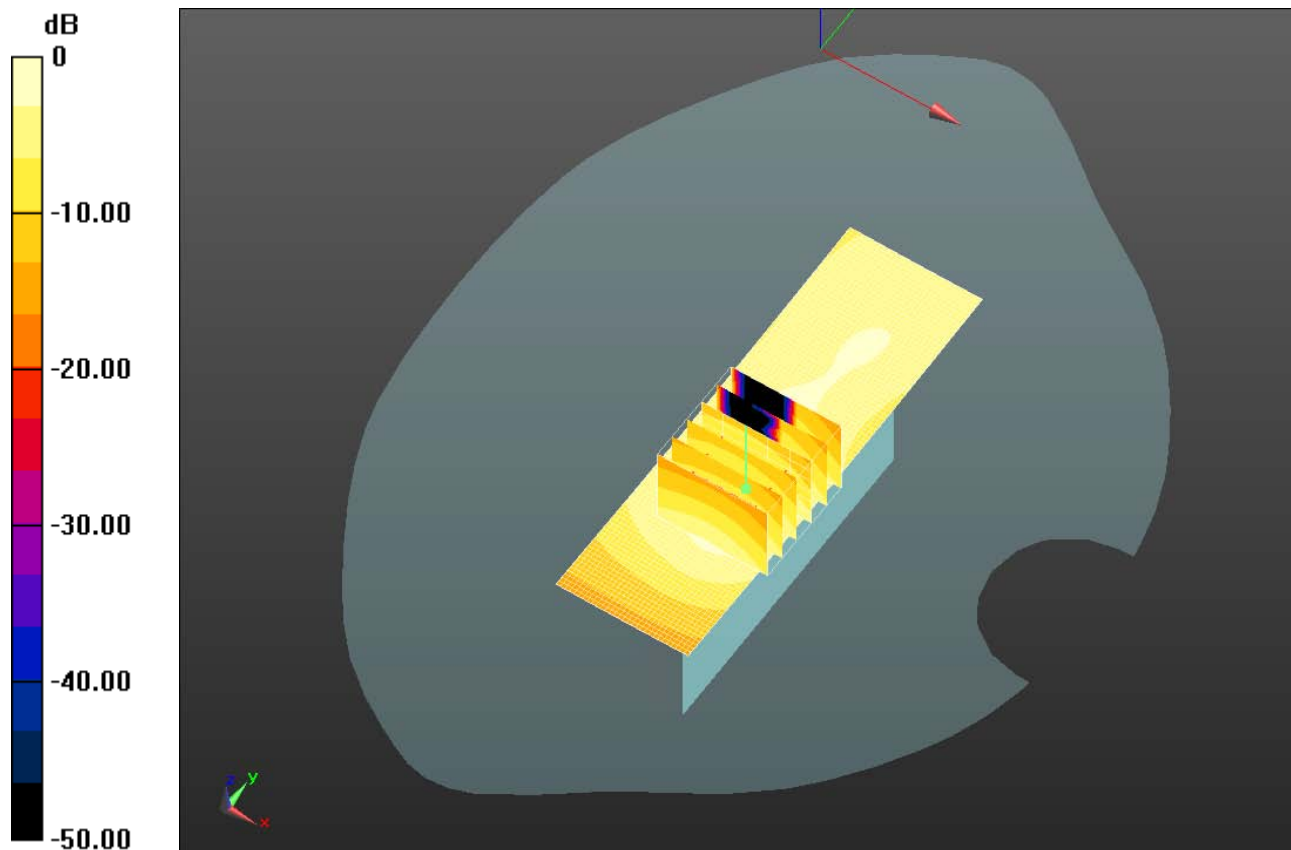
Peak SAR (extrapolated) = 0.7420

SAR(1 g) = 0.360 mW/g; SAR(10 g) = 0.181 mW/g

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

Maximum value of SAR (measured) = 0.373 mW/g

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0 dB = 0.370mW/g = -8.64 dB mW/g

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Date/Time: 3/9/2012 2:38:57 PM

Test Laboratory: RIM Testing Services

MHS_Left_CDMA1700_mid_chan_amb_temp_22.7C_liq_temp_20.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.531$ mho/m; $\epsilon_r = 54.234$;
 $\rho = 1000$ kg/m³

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 (31x101x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

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

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

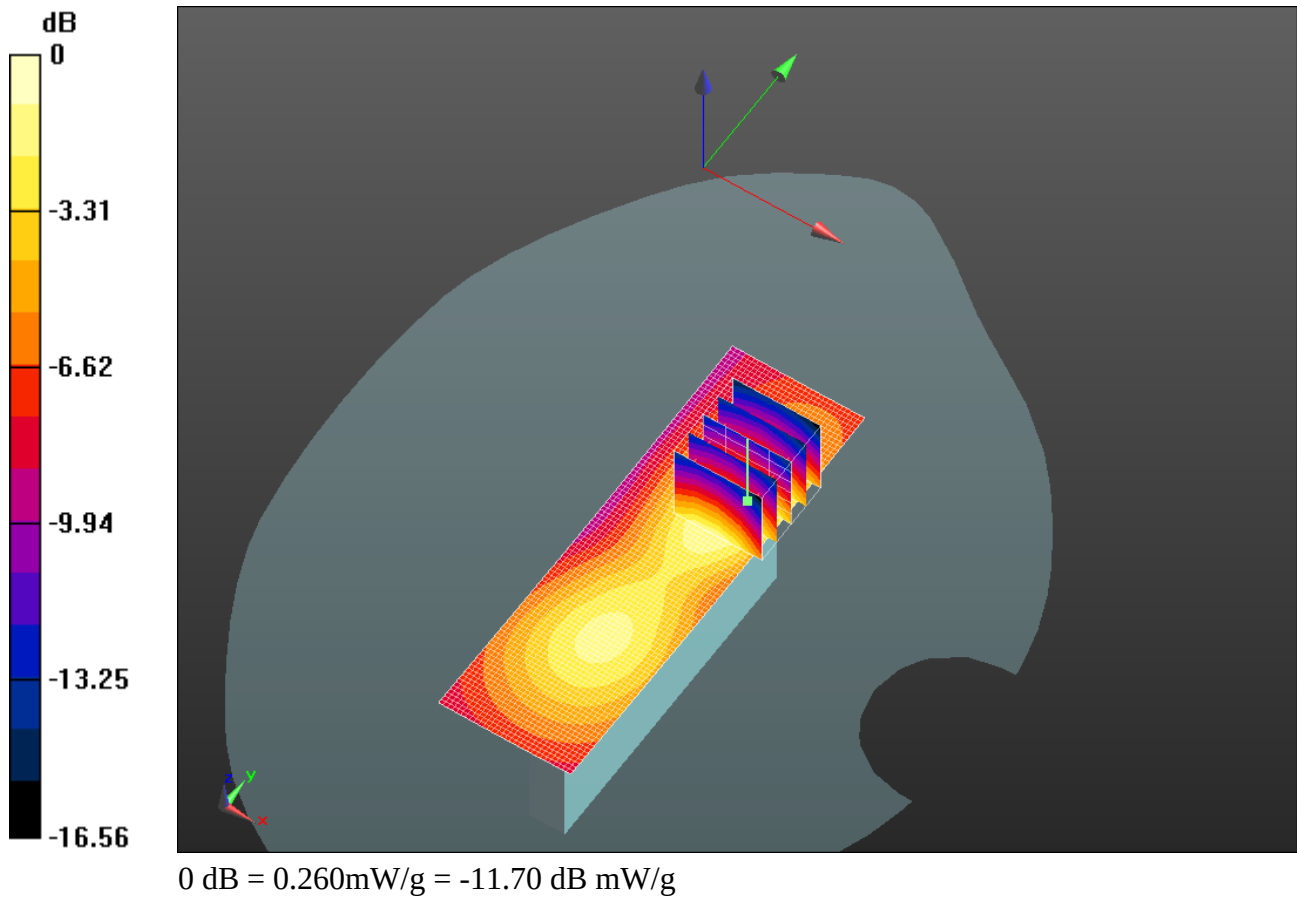
Reference Value = 8.987 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.3550

SAR(1 g) = 0.217 mW/g; SAR(10 g) = 0.124 mW/g

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

Maximum value of SAR (measured) = 0.264 mW/g



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Date/Time: 3/9/2012 3:30:27 PM

Test Laboratory: RIM Testing Services

MHS_Bottom_CDMA1700_low_chan_amb_temp_22.7C_liq_temp_20.8C

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1711.25 MHz

Medium parameters used (interpolated): $f = 1711.25$ MHz; $\sigma = 1.512$ mho/m; $\epsilon_r = 54.257$; $\rho = 1000$ kg/m³

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 (31x81x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.983 mW/g

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

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

Reference Value = 25.846 V/m; Power Drift = -0.04 dB

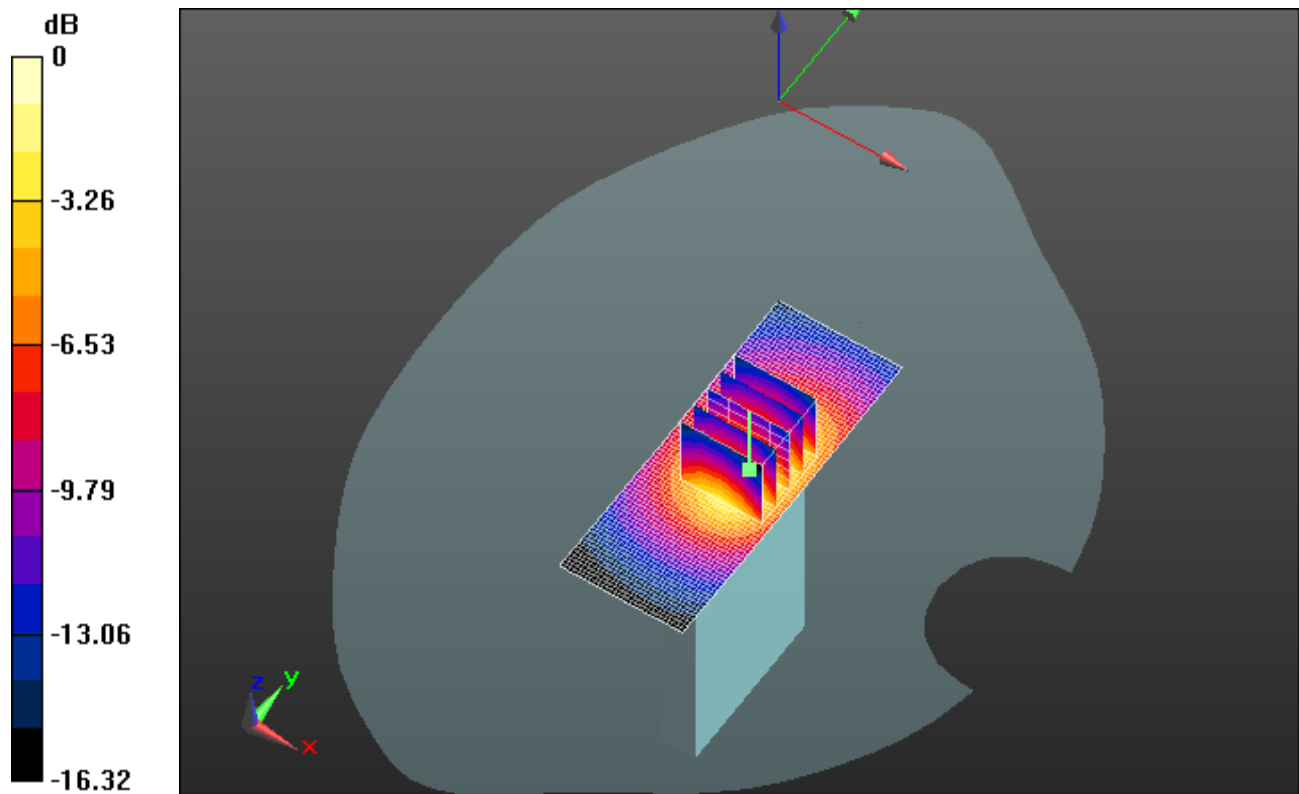
Peak SAR (extrapolated) = 1.2920

SAR(1 g) = 0.811 mW/g; SAR(10 g) = 0.453 mW/g

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

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

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0 dB = 1.000mW/g = 0 dB mW/g

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Date/Time: 3/9/2012 3:17:30 PM

Test Laboratory: RIM Testing Services

**MHS_Bottom_CDMA1700_mid_chan_amb_temp_22.7C_liq_temp_20.8
C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1732.5 MHz
Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.531$ mho/m; $\epsilon_r = 54.234$;
 $\rho = 1000$ kg/m³
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 (31x81x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.137 mW/g

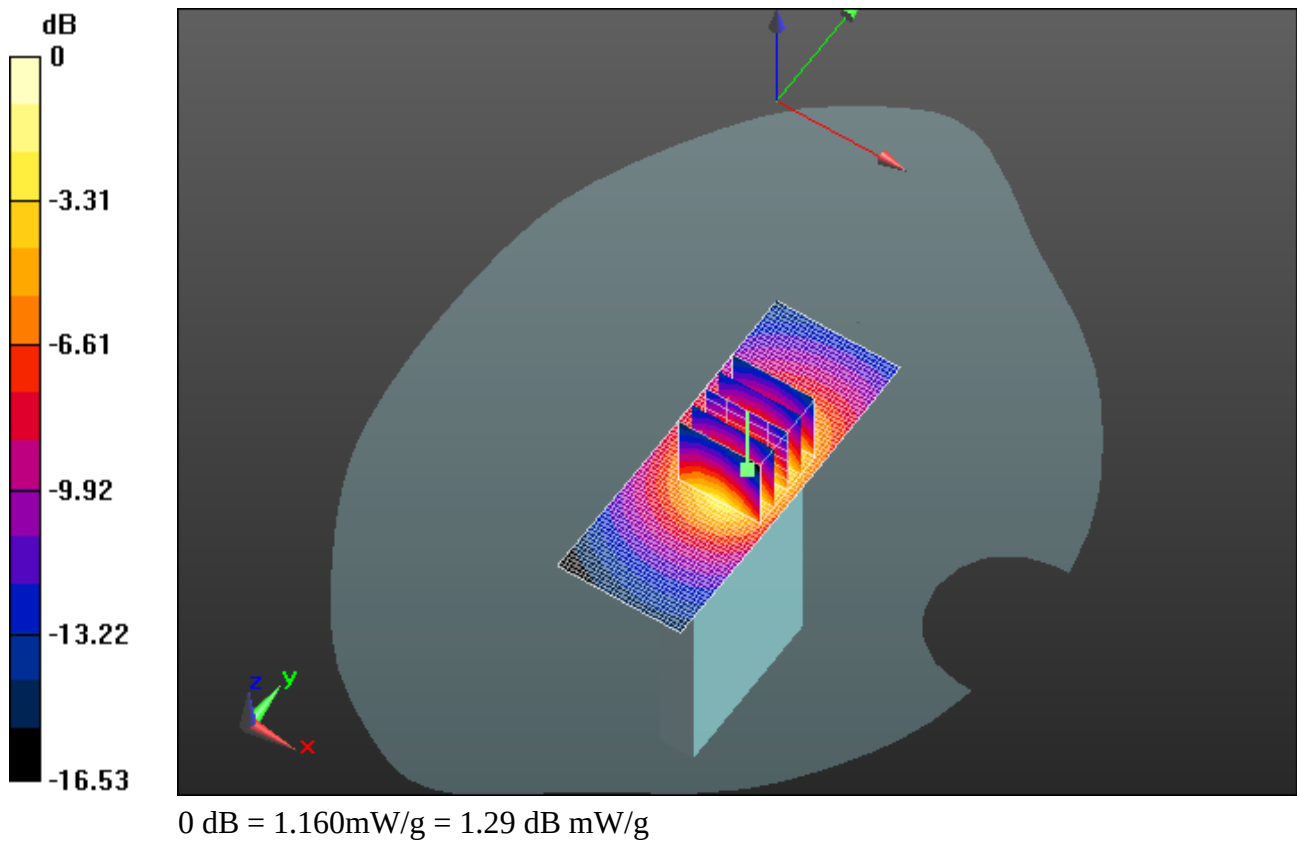
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 27.386 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.5320
SAR(1 g) = 0.944 mW/g; SAR(10 g) = 0.524 mW/g

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

Maximum value of SAR (measured) = 1.158 mW/g

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Author Data Andrew Becker	Dates of Test February 23 – March 13, 2012	Test Report No RTS-5994-1203-76	FCC ID: L6ARFC30CW	IC ID 2503A-RFC30CW



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Date/Time: 3/9/2012 3:42:36 PM

Test Laboratory: RIM Testing Services

**MHS_Bottom_CDMA1700_high_chan_amb_temp_22.7C_liq_temp_20.8
C**

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 331CEAA2

Communication System: CDMA AWS 1700; Frequency: 1753.75 MHz

Medium parameters used (interpolated): $f = 1753.75$ MHz; $\sigma = 1.556$ mho/m; $\epsilon_r = 54.108$; $\rho = 1000$ kg/m³

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 (31x81x1): Measurement grid:
dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.098 mW/g

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

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

Reference Value = 26.735 V/m; Power Drift = -0.07 dB

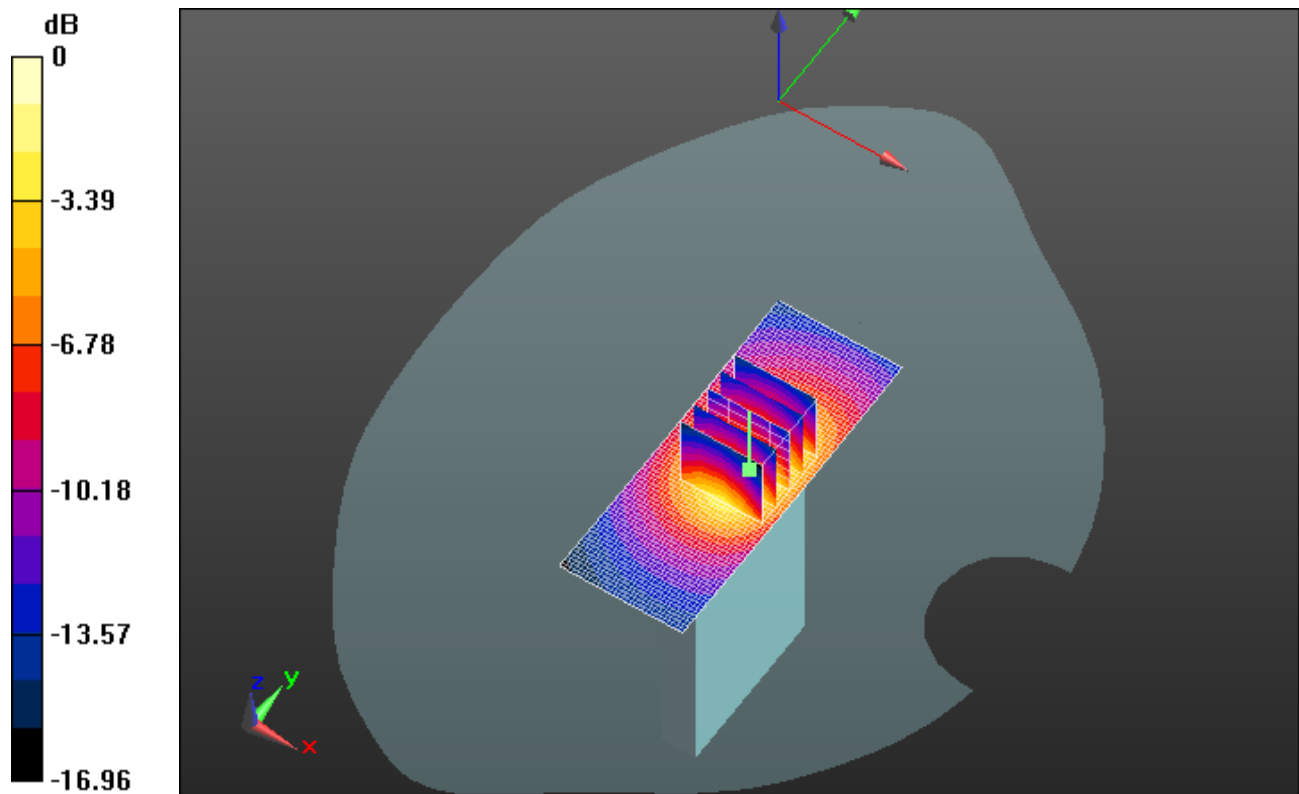
Peak SAR (extrapolated) = 1.4750

SAR(1 g) = 0.907 mW/g; SAR(10 g) = 0.499 mW/g

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

Maximum value of SAR (measured) = 1.123 mW/g

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0 dB = 1.120mW/g = 0.98 dB mW/g

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Z axis plot for the worst case MHS configuration

