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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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LTE 17

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/14/2012 4:48:34 PM

Test Laboratory: RIM Testing Services

Head_SAR_LTE_17_Right_Head_Touch

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE_Band 17; Frequency: 710 MHz

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.888 \text{ mho/m}$; $\epsilon_r = 42.756$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Right_Head_Touch_LTE_17_Mid_Chan_QPSK_RB1_Offset49_10MHz_BW_Amb_Tem_24.1C_Liq_Tem_22.4C/Area Scan

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

Reference Value = 7.872 V/m; Power Drift = 0.13 dB

Fast SAR: SAR(1 g) = 0.446 mW/g; SAR(10 g) = 0.311 mW/g

Maximum value of SAR (interpolated) = 0.505 mW/g

Configuration/Right_Head_Touch_LTE_17_Mid_Chan_QPSK_RB25_Offset25_10MHz_BW_Amb_Tem_24.0C_Liq_Tem_22.3C 2/Area Scan

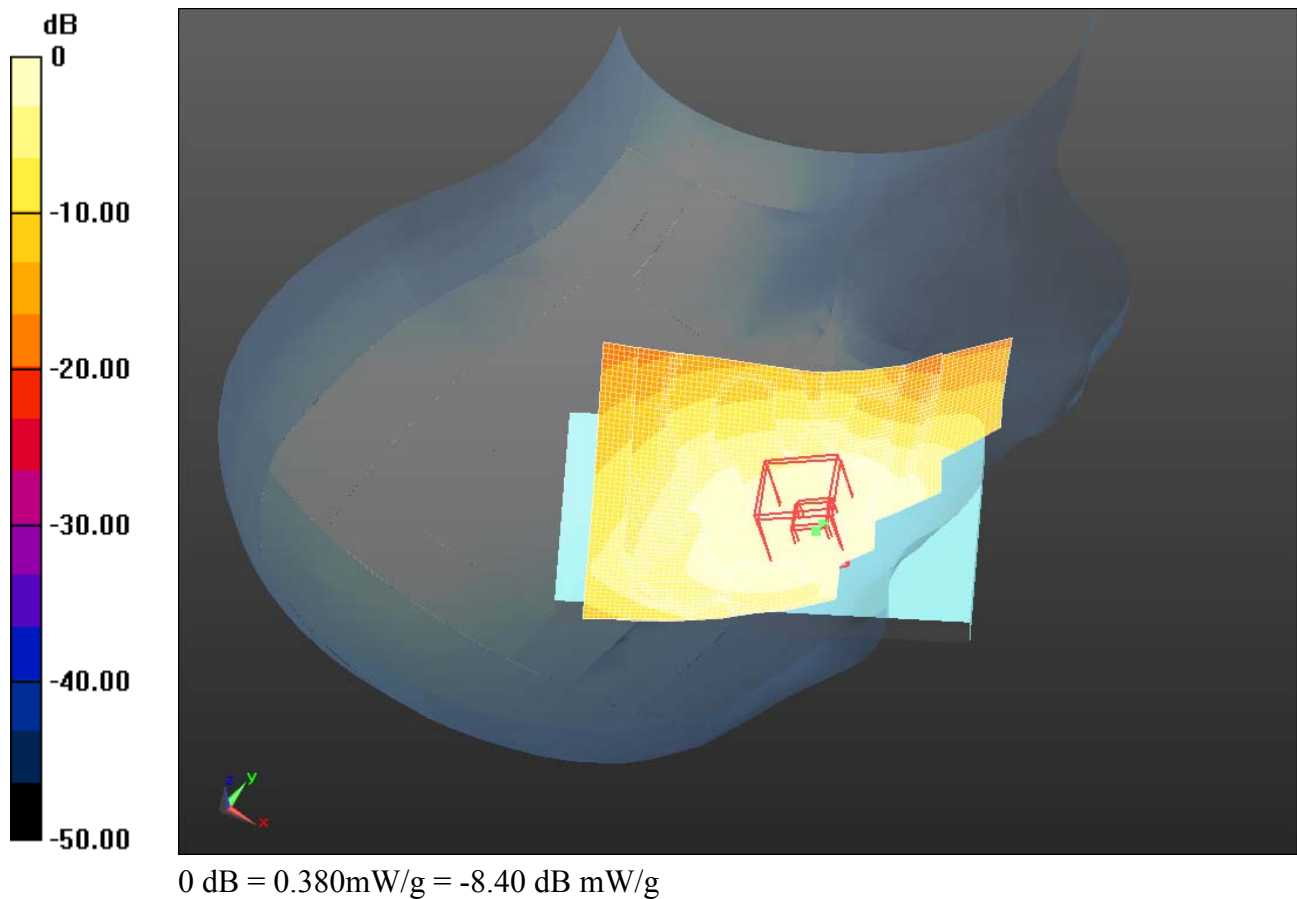
(61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 6.593 V/m; Power Drift = 0.11 dB

Fast SAR: SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.233 mW/g

Maximum value of SAR (interpolated) = 0.377 mW/g

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Date/Time: 12/14/2012 5:05:45 PM

Test Laboratory: RIM Testing Services

Head_SAR_LTE_17_Right_Head_Tilt

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE_Band 17; Frequency: 710 MHz

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.888 \text{ mho/m}$; $\epsilon_r = 42.756$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Right_Head_Tilt_LTE_17_Mid_Chan_QPSK_RB1_Offset4 9_10MHz_BW_Amb_Tem_24.0C_Liq_Tem_22.3C/Area Scan (61x81x1):

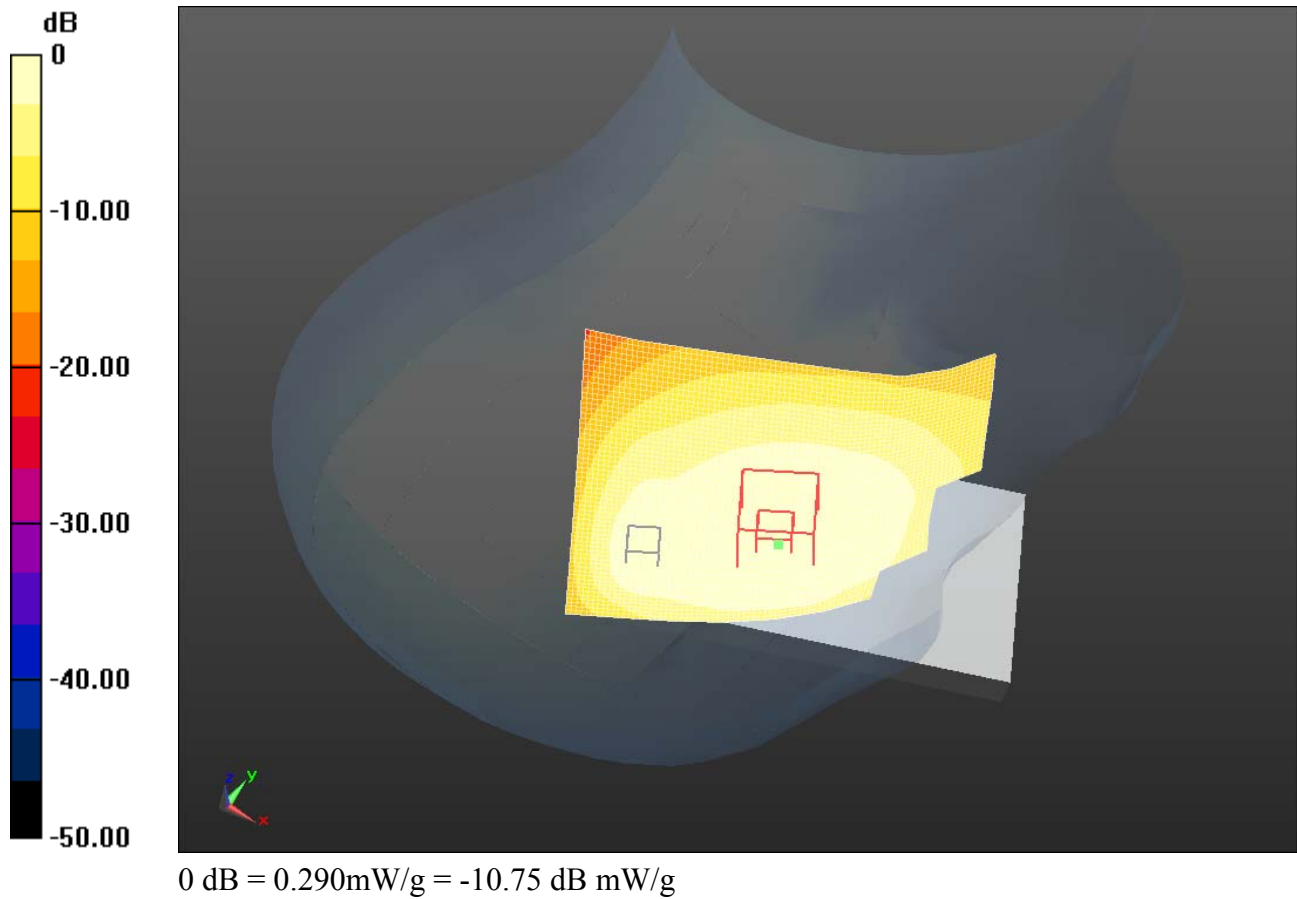
Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 13.200 V/m; Power Drift = 0.11 dB

Fast SAR: SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.189 mW/g

Maximum value of SAR (interpolated) = 0.294 mW/g

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Date/Time: 12/17/2012 12:51:15 PM

Test Laboratory: RIM Testing Services

Left_Head_SAR_LTE_17_Touch

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE ; Frequency: 710 MHz

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.878 \text{ mho/m}$; $\epsilon_r = 42.669$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Left_Head_Touch_Mid_Chan_QPSK_RB1_Offset49_10M Hz_BW_Amb_Tem_23.3C_Liq_Tem_22.1C/Area Scan (61x91x1):

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

Reference Value = 8.348 V/m ; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 0.567 mW/g ; SAR(10 g) = 0.393 mW/g

Maximum value of SAR (interpolated) = 0.644 mW/g

Configuration/Left_Head_Touch_Mid_Chan_QPSK_RB1_Offset49_10M Hz_BW_Amb_Tem_23.3C_Liq_Tem_22.1C/Zoom Scan (5x5x7)

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

Reference Value = 8.348 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.7320

SAR(1 g) = 0.585 mW/g ; SAR(10 g) = 0.424 mW/g

Maximum value of SAR (measured) = 0.645 mW/g

Configuration/Left_Head_Touch_Mid_Chan_QPSK_RB25_Offset25_10M Hz_BW_Amb_Tem_23.2C_Liq_Tem_22.0C/Area Scan (61x61x1):

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

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Reference Value = 7.638 V/m; Power Drift = 0.17 dB

Fast SAR: SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.323 mW/g

Maximum value of SAR (interpolated) = 0.523 mW/g

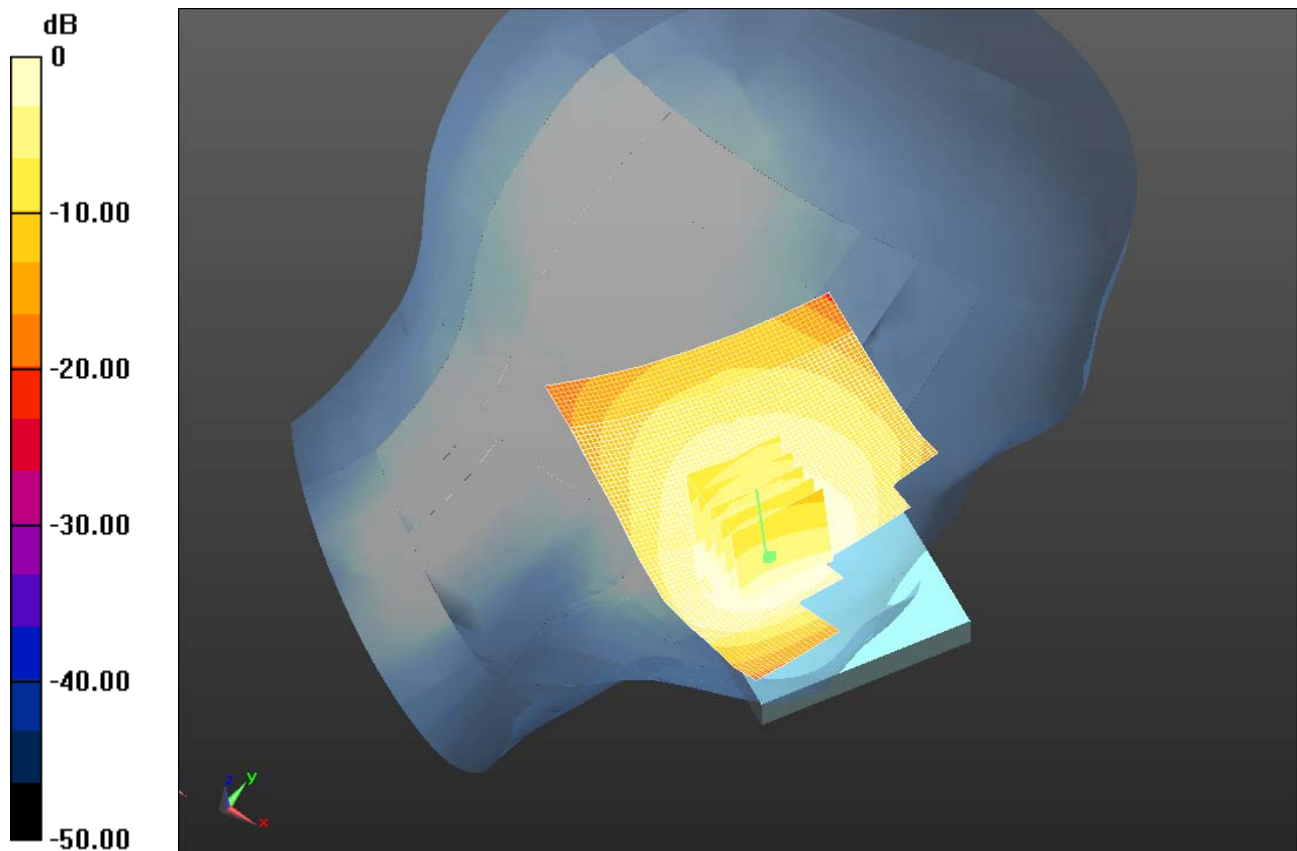
**Configuration/Left_Head_Touch_Mid_Chan_QPSK_RB1_Offset49_10M
Hz_BW_Amb_Tem_23.0C_Liq_Tem_21.9C_2100mA_Batt./Area Scan**

(61x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 8.477 V/m; Power Drift = 0.0018 dB

Fast SAR: SAR(1 g) = 0.563 mW/g; SAR(10 g) = 0.391 mW/g

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



0 dB = 0.640mW/g = -3.88 dB mW/g

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Date/Time: 12/17/2012 1:41:48 PM

Test Laboratory: RIM Testing Services

Left_Head_SAR_LTE_17_Tilt

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE ; Frequency: 710 MHz

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.878 \text{ mho/m}$; $\epsilon_r = 42.669$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Left_Head_Tilt_Mid_Chan_QPSK_RB1_Offset49_10MHz_BW_Amb_Tem_23.0C_Liq_Tem_21.9C/Area Scan (61x61x1): Measurement

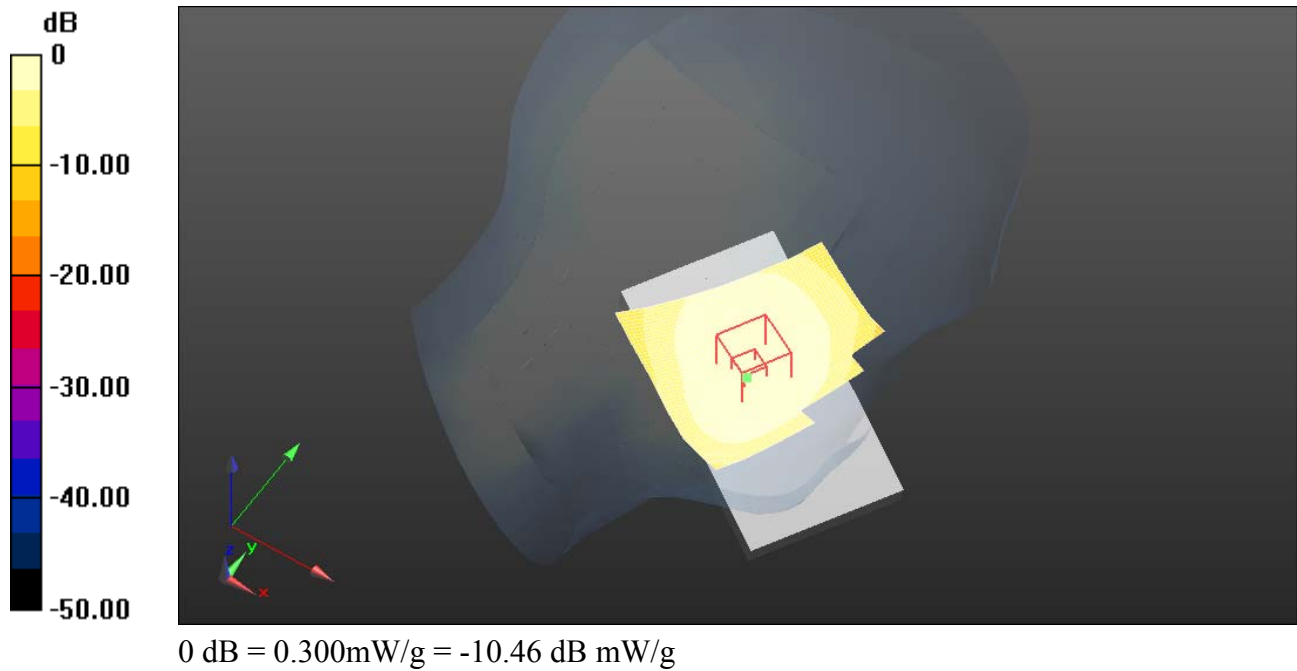
grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 14.014 V/m ; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 0.269 mW/g ; SAR(10 g) = 0.194 mW/g

Maximum value of SAR (interpolated) = 0.298 mW/g

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LTE 5

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 9:02:52 PM

Test Laboratory: RIM Testing Services

RightHandside_LTE_5_mid_QPSK_RB_1_Offset_0_Amb_23.4_Liq_21.3

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 835_Band 5; Frequency: 836.5 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.116$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Righttouch_LTE_Band_5_QPSK_RB_1_Offset_0_Amb_23.4_Liq_21.3/Area Scan (61x101x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm

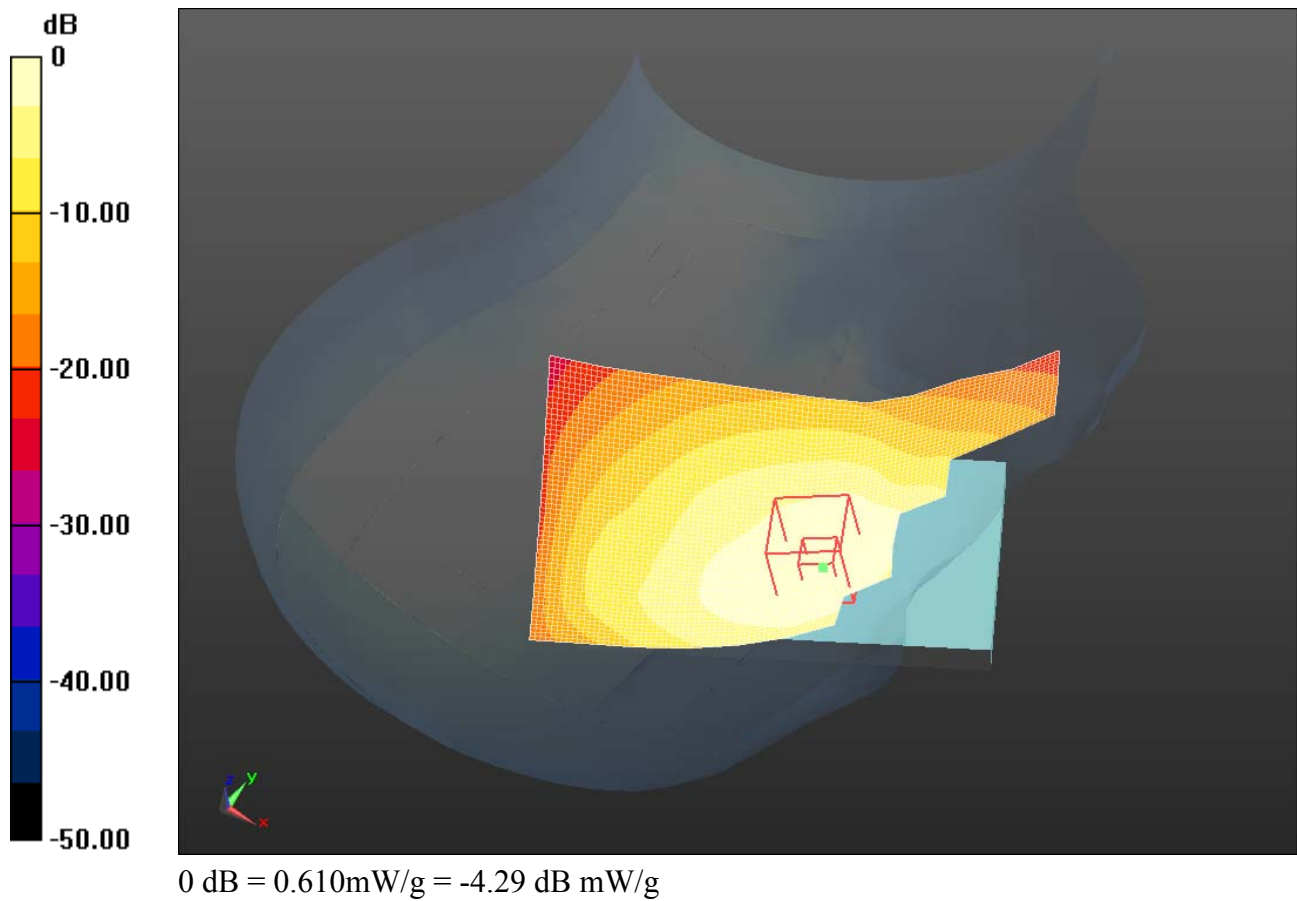
Reference Value = 8.683 V/m; Power Drift = -0.18 dB

Fast SAR: SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.371 mW/g

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

Maximum value of SAR (interpolated) = 0.611 mW/g

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Date/Time: 12/10/2012 9:19:12 PM

Test Laboratory: RIM Testing Services

Righthandside_LTE_5_mid_QPSK_RB_25_Offset_0_Amb_23.2_Liq_21.

1

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 835_Band 5; Frequency: 836.5 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.116$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Righttouch_LTE_Band_5_mid_QPSK_RB_25_Offset_0_Amb_23.2_Liq_21.1/Area Scan (61x71x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

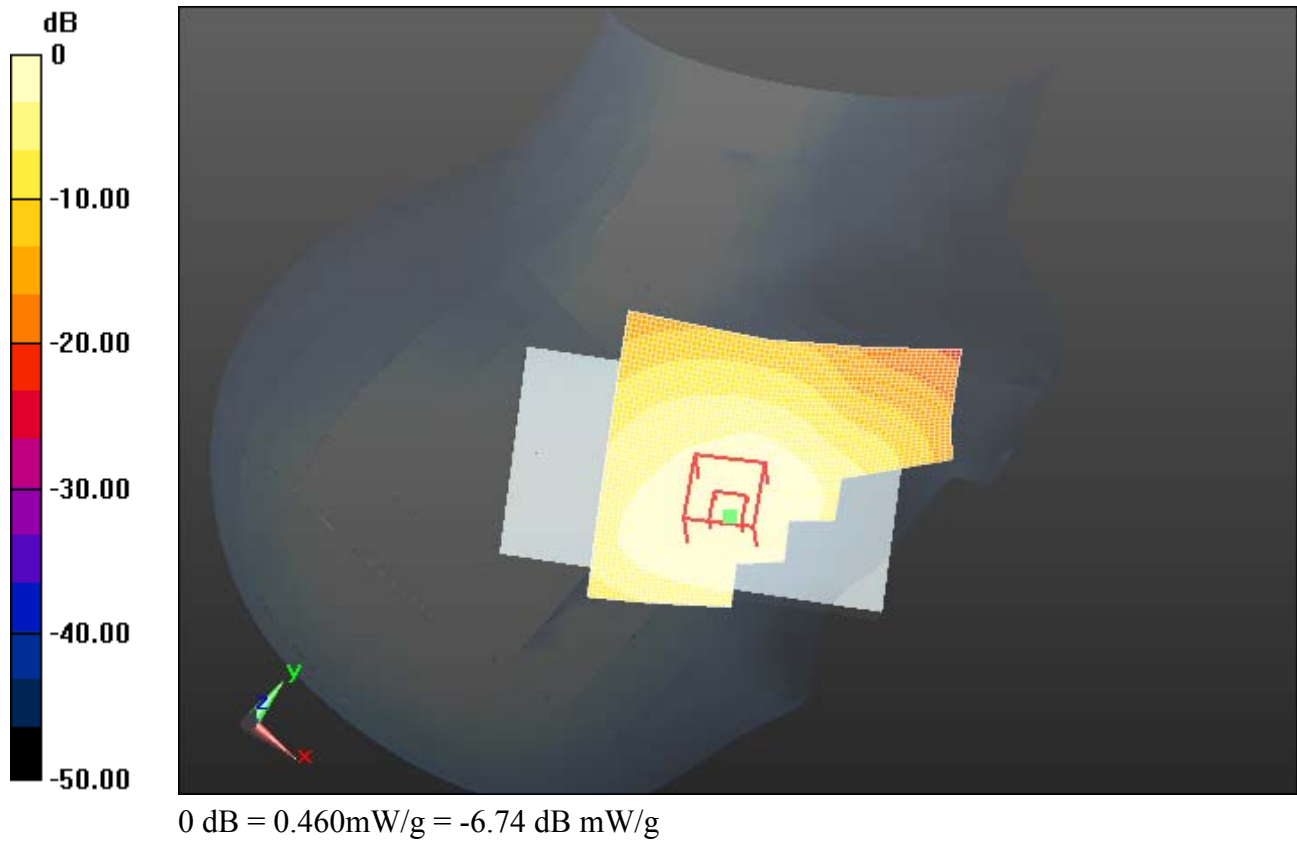
Reference Value = 7.341 V/m; Power Drift = 0.43 dB

Fast SAR: SAR(1 g) = 0.406 mW/g; SAR(10 g) = 0.280 mW/g

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

Maximum value of SAR (interpolated) = 0.462 mW/g

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Date/Time: 12/10/2012 9:32:43 PM

Test Laboratory: RIM Testing Services

RightHandside_Tilt_LTE_5_mid_QPSK_RB_1_Offset_0_Amb_23.4_Liq_21.1

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 835_Band 5; Frequency: 836.5 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.116$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

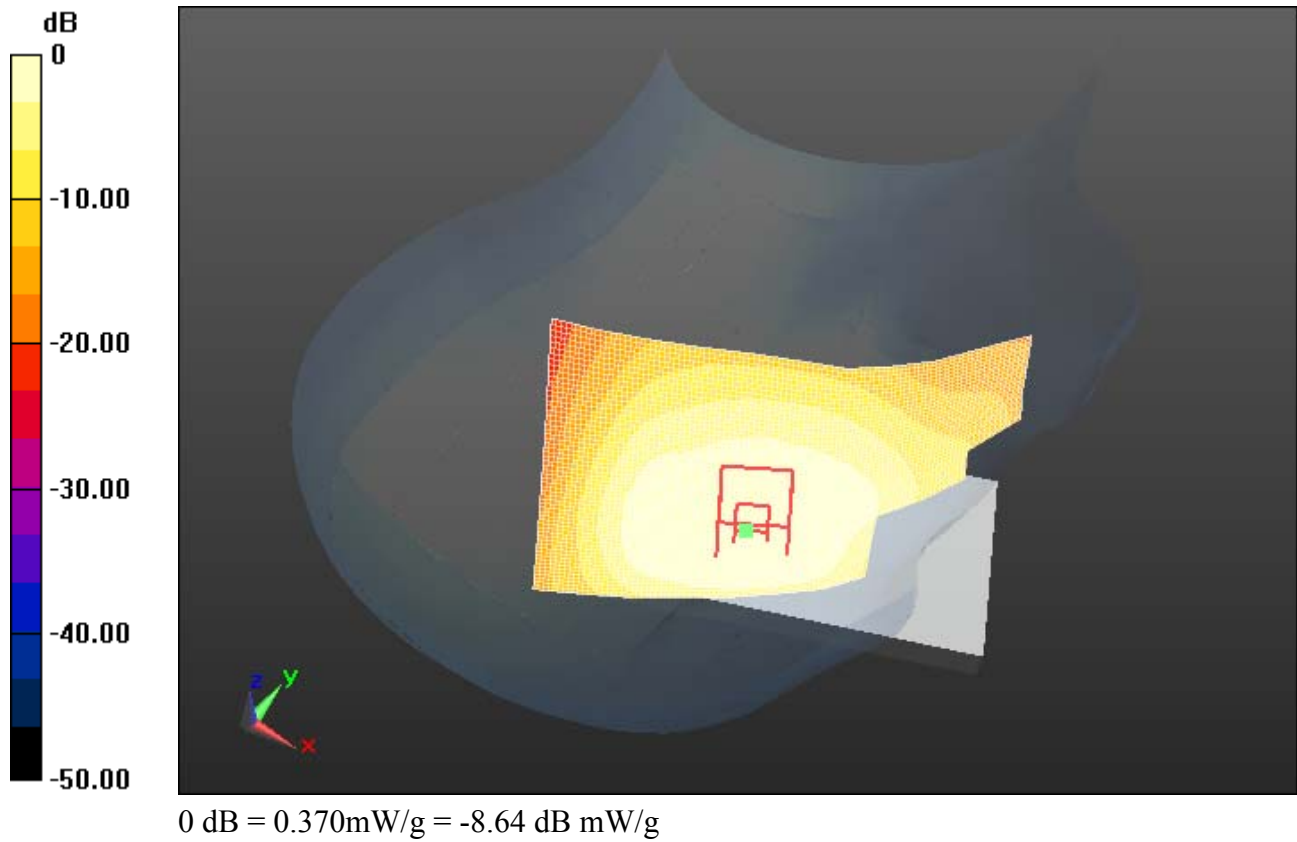
- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Righttouch_Tilt_LTE_5_mid_QPSK_RB_1_Offset_0_Amb_23.4_Liq_21.1 /Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 15.658 V/m; Power Drift = -0.08 dB
Fast SAR: SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.231 mW/g

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

Maximum value of SAR (interpolated) = 0.371 mW/g

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Date/Time: 12/10/2012 8:16:51 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_5_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.
4_liq_temp_21.2**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 835_Band 5; Frequency: 836.5 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.116$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Lefttouch_LTE_5_Mid_QPSK_RB_1_Offset_0/Area Scan

(61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

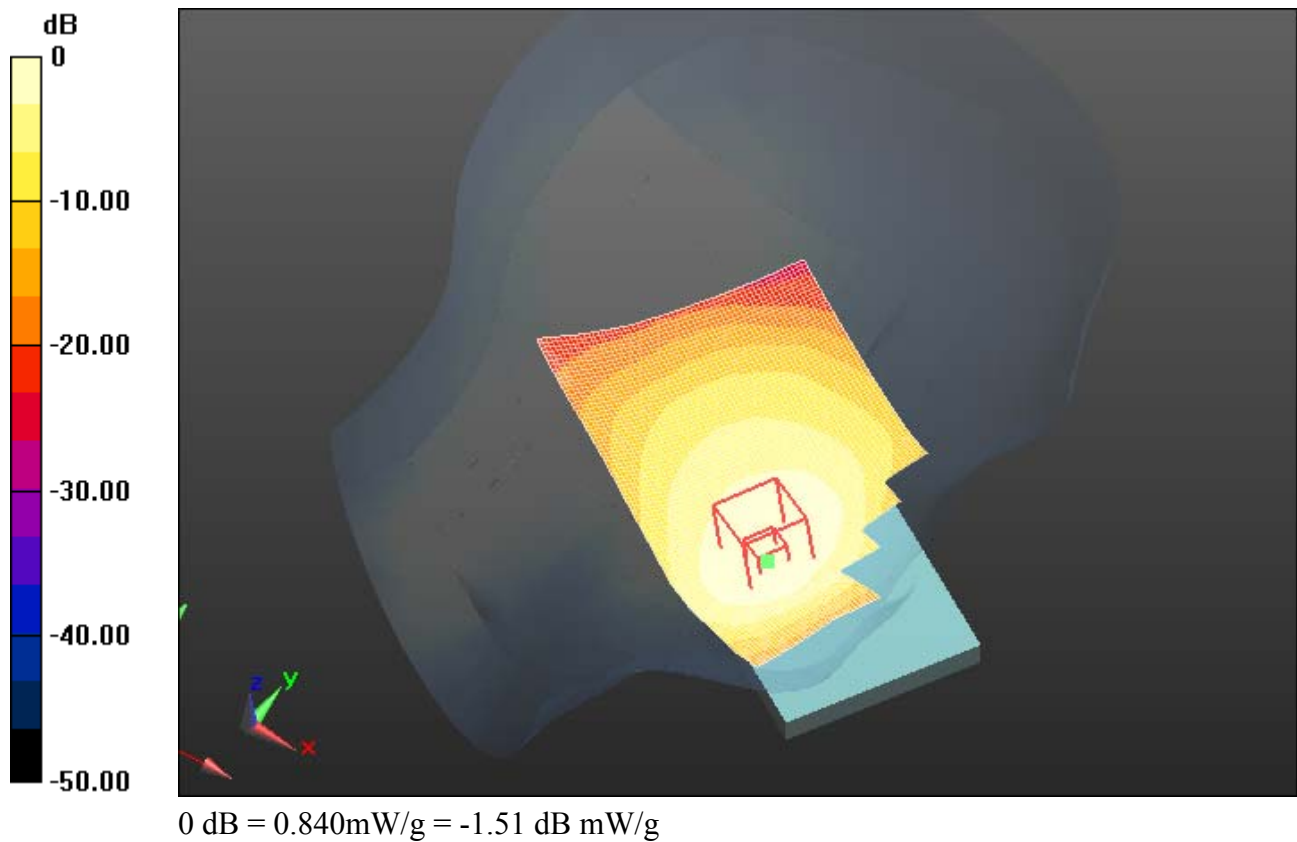
Reference Value = 10.155 V/m; Power Drift = -0.06 dB

Fast SAR: SAR(1 g) = 0.734 mW/g; SAR(10 g) = 0.499 mW/g

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

Maximum value of SAR (interpolated) = 0.843 mW/g

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Date/Time: 12/10/2012 10:19:07 PM

Test Laboratory: RIM Testing Services

LeftHandside_LTE_5_Mid_QPSK_RB_1_Offset_0_Amb_23.4_Liq_21.2

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 835_Band 5; Frequency: 836.5 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.116$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Lefttouch_LTE_5_Mid_QPSK_RB_1_Offset_0_Amb_23.4_Liq_21.2/Area Scan (61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

Maximum value of SAR (interpolated) = 0.825 mW/g

Configuration/Lefttouch_LTE_5_Mid_QPSK_RB_1_Offset_0_Amb_23.4_Liq_21.2/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 10.066 V/m; Power Drift = -0.005 dB

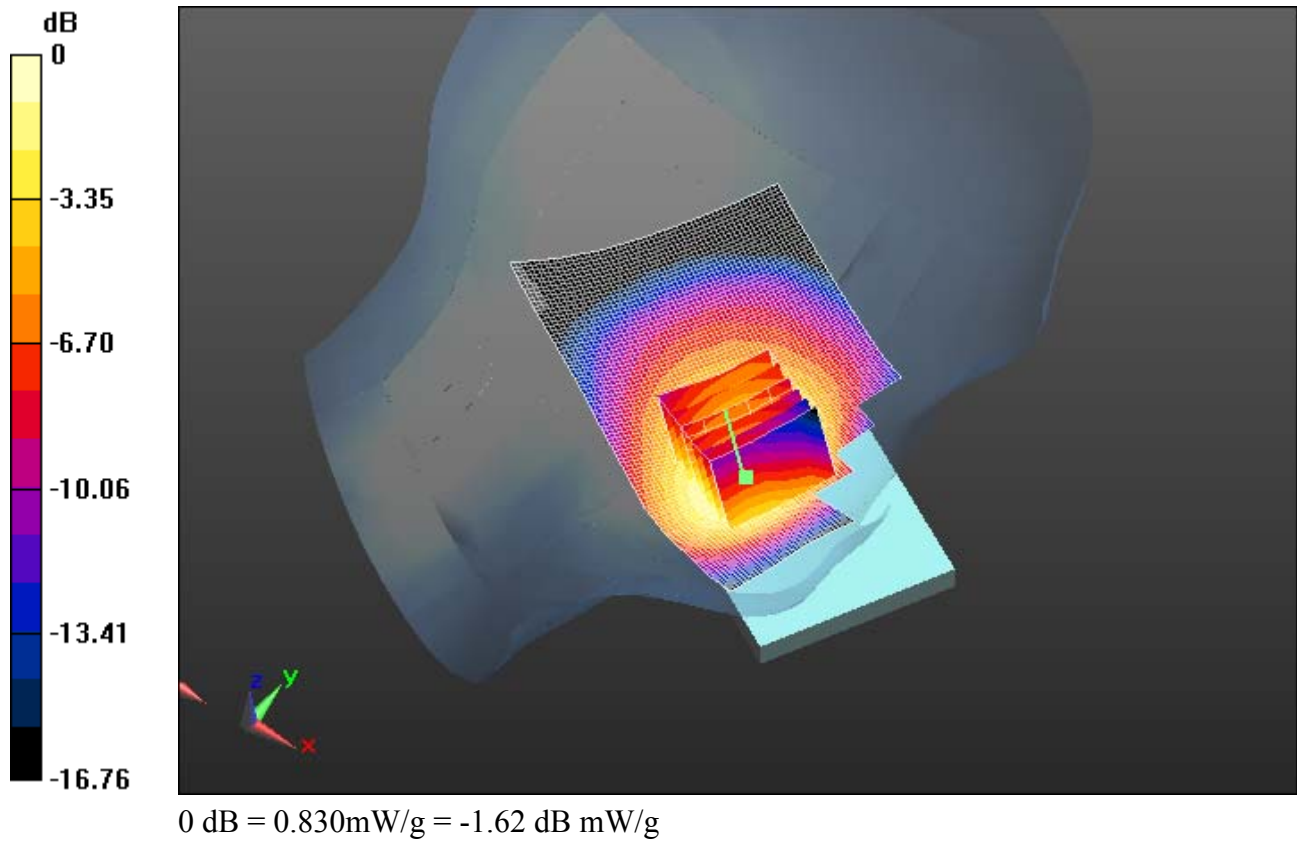
Peak SAR (extrapolated) = 0.9770

SAR(1 g) = 0.752 mW/g; SAR(10 g) = 0.542 mW/g

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

Maximum value of SAR (measured) = 0.831 mW/g

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Date/Time: 12/10/2012 8:27:05 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_5_mid_chan_QPSK_RB_25_Offset_0_amb_temp_23
.2_liq_temp_21.1da52**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 835_Band 5; Frequency: 836.5 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.116$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Lefttouch_LTE_5_Mid_QPSK_RB_25_Offset_0/Area Scan

(61x101x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

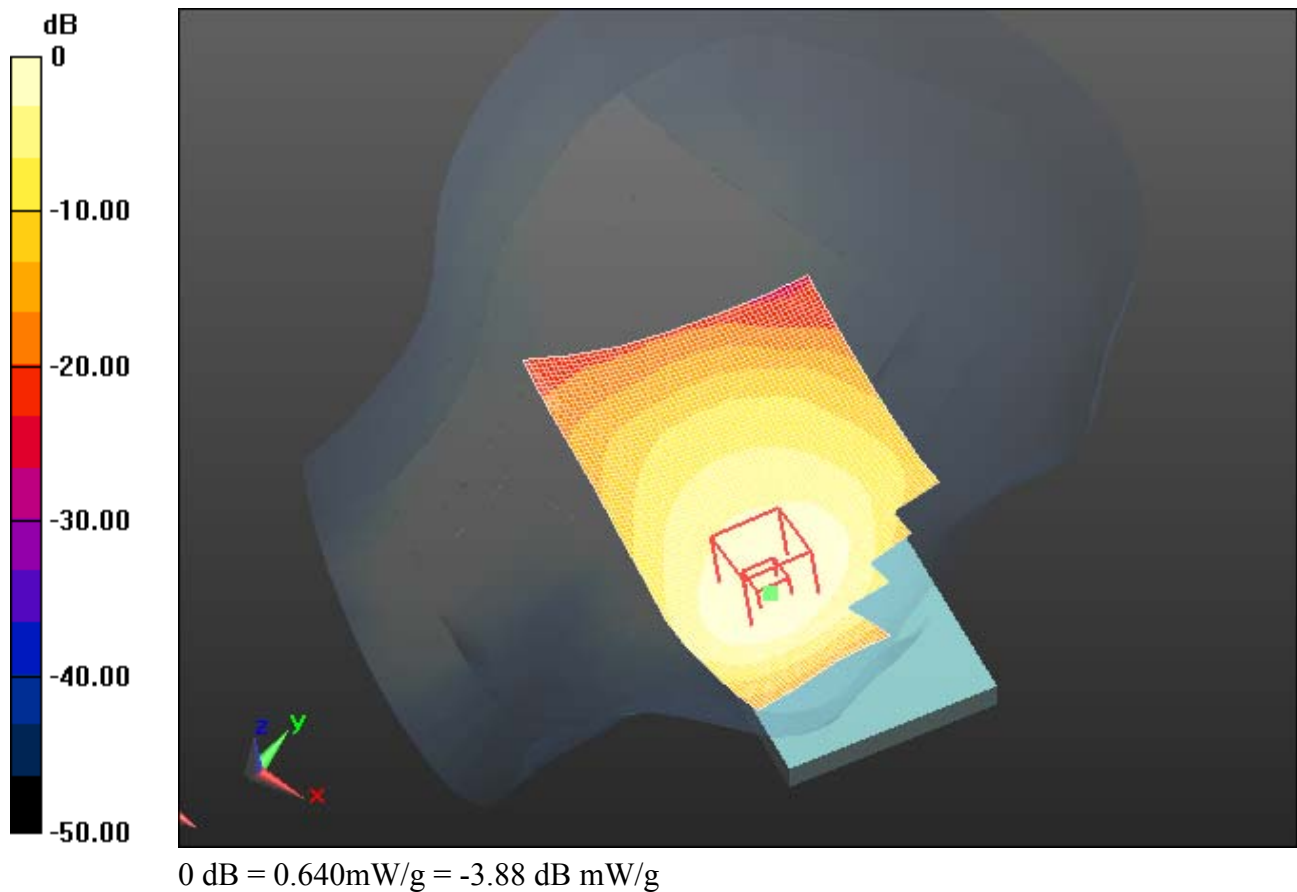
Reference Value = 8.799 V/m; Power Drift = -0.13 dB

Fast SAR: SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.380 mW/g

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

Maximum value of SAR (interpolated) = 0.643 mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW



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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 8:43:35 PM

Test Laboratory: RIM Testing Services

**LeftHandside_Tilt_LTE_5_mid_chan_QPSK_RB_1_Offset_0_Ambient_2
3.6C_Liquid_21.2C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 835_Band 5; Frequency: 836.5 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.116$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Tilt position -/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Reference Value = 16.224 V/m; Power Drift = -0.07 dB

Fast SAR: SAR(1 g) = 0.330 mW/g; SAR(10 g) = 0.233 mW/g

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

Maximum value of SAR (interpolated) = 0.370 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RFL111LW SAR Report			Page 25(219)
Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW



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

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 10:46:04 PM

Test Laboratory: RIM Testing Services

LeftHandside_LTE_5_Mid_QPSK_RB_1_Offset_0_Amb_23.6_Liq_21.4_2100

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 835_Band 5; Frequency: 836.5 MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.116$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

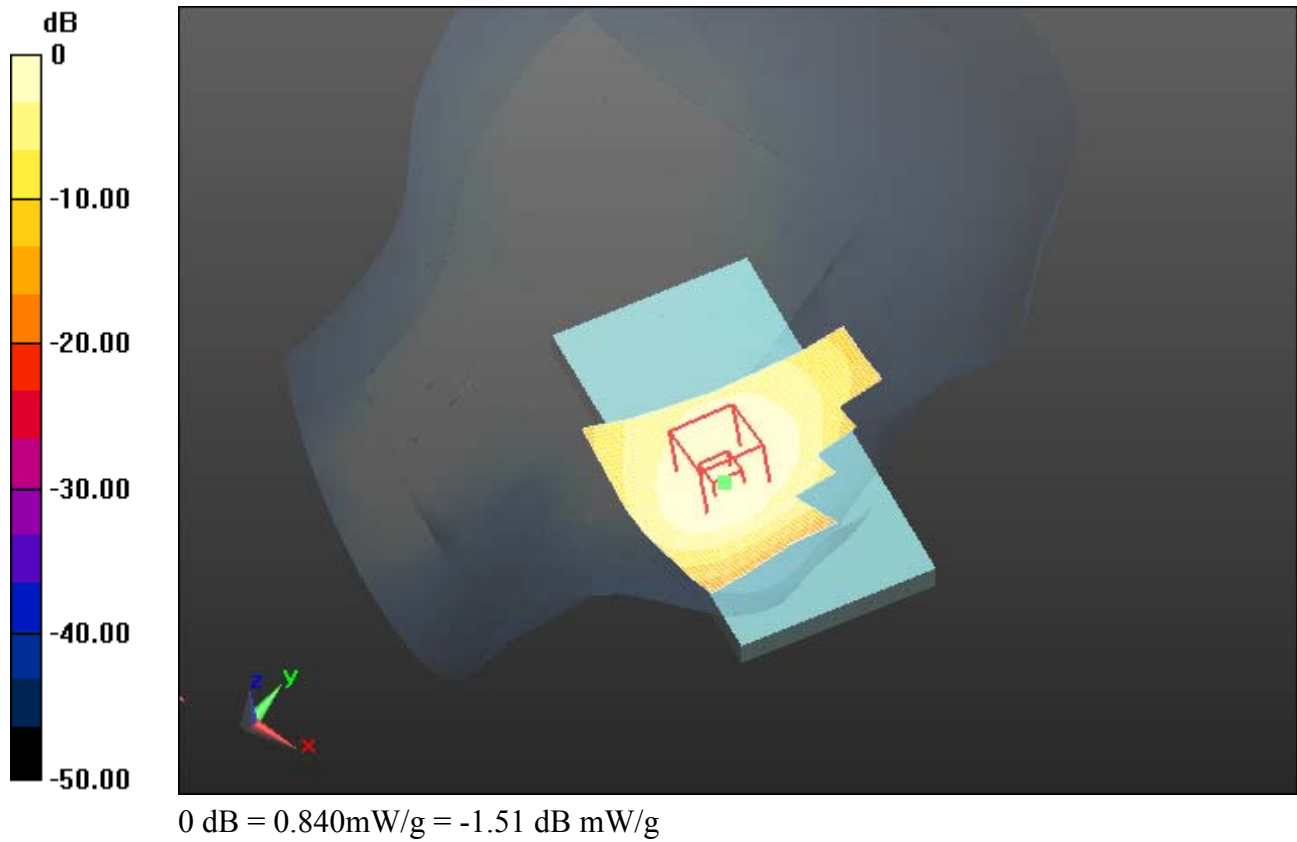
- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Lefttouch_LTE_5_Mid_QPSK_RB_1_Offset_0_Amb_23.6_Liq_21.4_2100/Area Scan (61x61x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
Reference Value = 10.164 V/m; Power Drift = 0.03 dB
Fast SAR: SAR(1 g) = 0.739 mW/g; SAR(10 g) = 0.501 mW/g

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

Maximum value of SAR (interpolated) = 0.844 mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW



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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

EDGE 850

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 1:23:14 AM

Test Laboratory: RIM Testing Services

RightHandSide_DTM/EDGE850_mid_chan_amb_temp_23.5C_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.889 \text{ mho/m}$; $\epsilon_r = 40.113$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 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) = 0.573 mW/g

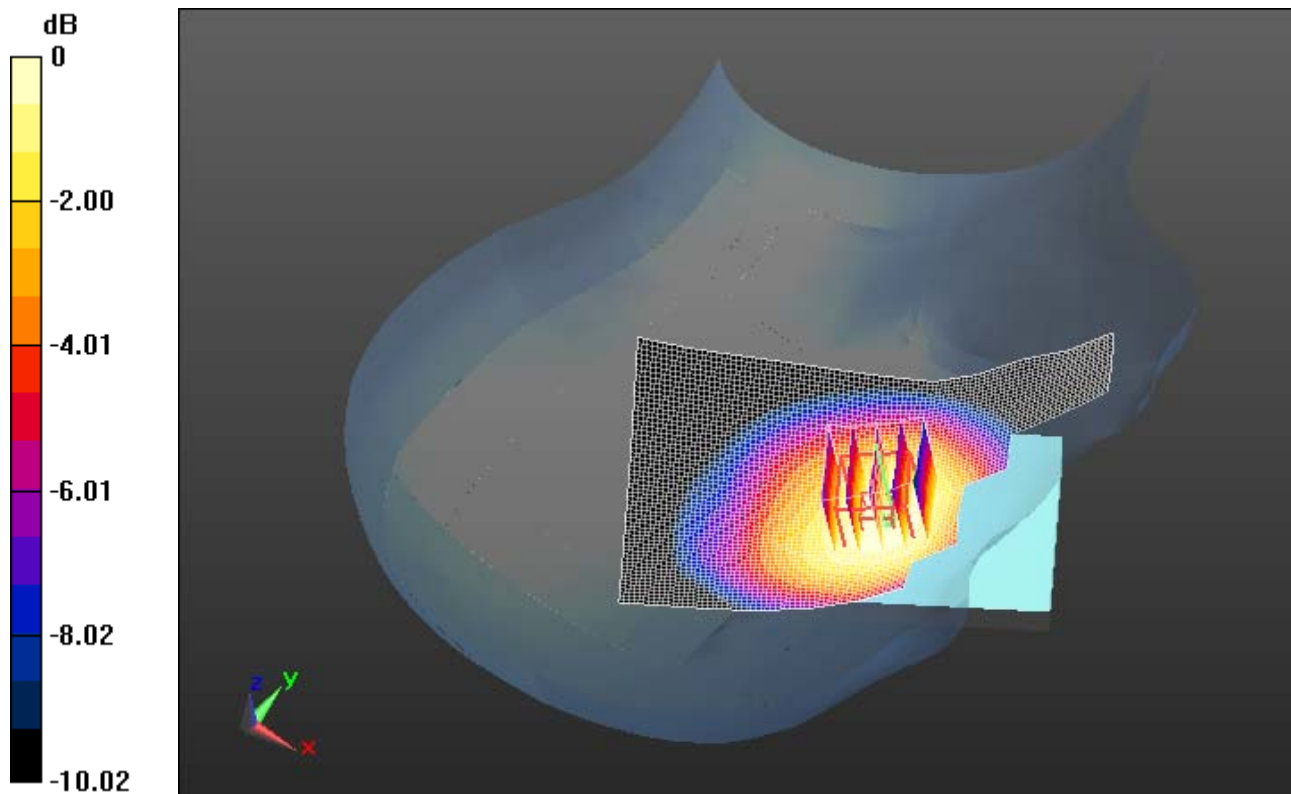
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 9.657 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.6690
SAR(1 g) = 0.540 mW/g; SAR(10 g) = 0.411 mW/g

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

Maximum value of SAR (measured) = 0.585 mW/g

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0 dB = 0.590mW/g = -4.58 dB mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 2:10:41 AM

Test Laboratory: RIM Testing Services

RightHandSide_Tilt_DTM/EDGE850_mid_chan_amb_temp_23.3C_liq_temper_22.1C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.113$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 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) = 0.391 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 = 16.636 V/m; Power Drift = 0.05 dB

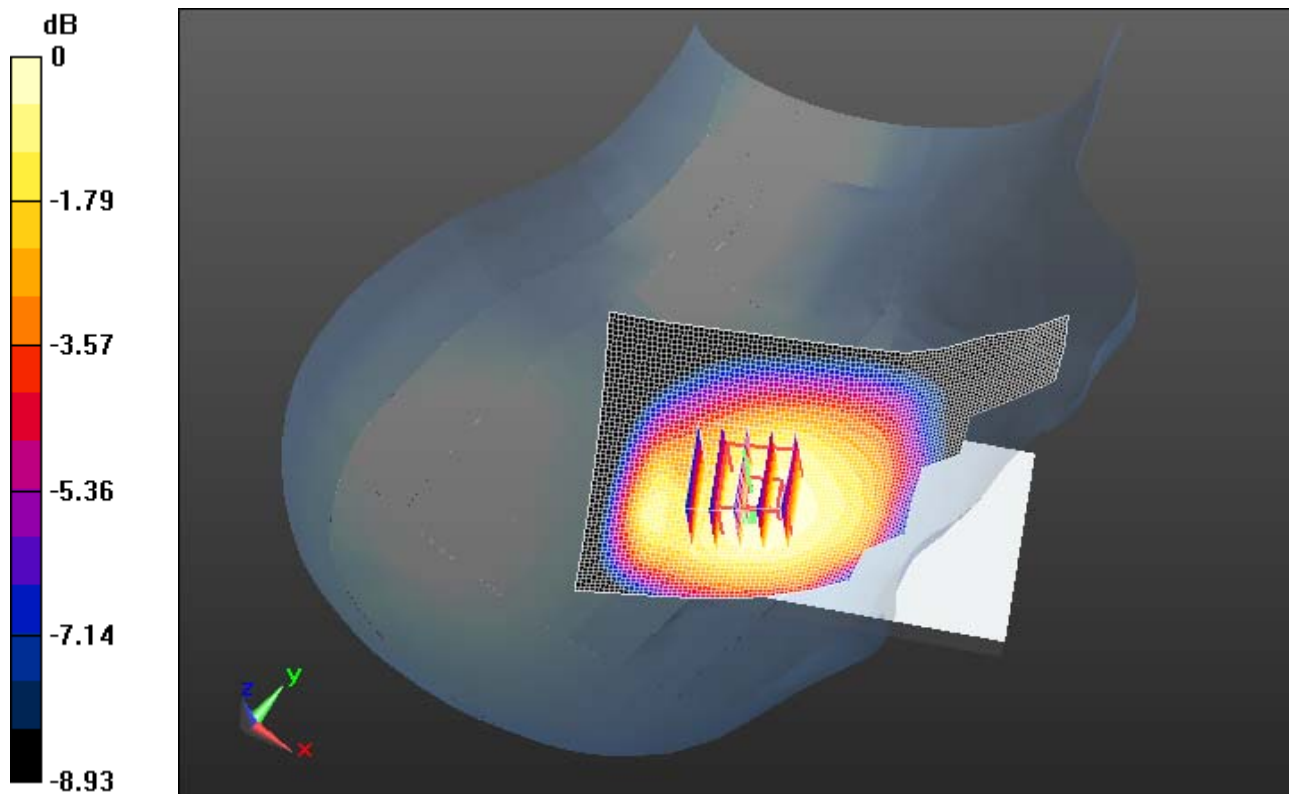
Peak SAR (extrapolated) = 0.4620

SAR(1 g) = 0.373 mW/g; SAR(10 g) = 0.285 mW/g

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

Maximum value of SAR (measured) = 0.402 mW/g

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0 dB = 0.400mW/g = -7.96 dB mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 2:26:48 AM

Test Laboratory: RIM Testing Services

RightHandSide_GSM850_mid_chan_amb_temp_23.5C_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: GSM 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.113$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 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) = 0.723 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 = 10.863 V/m; Power Drift = -0.09 dB

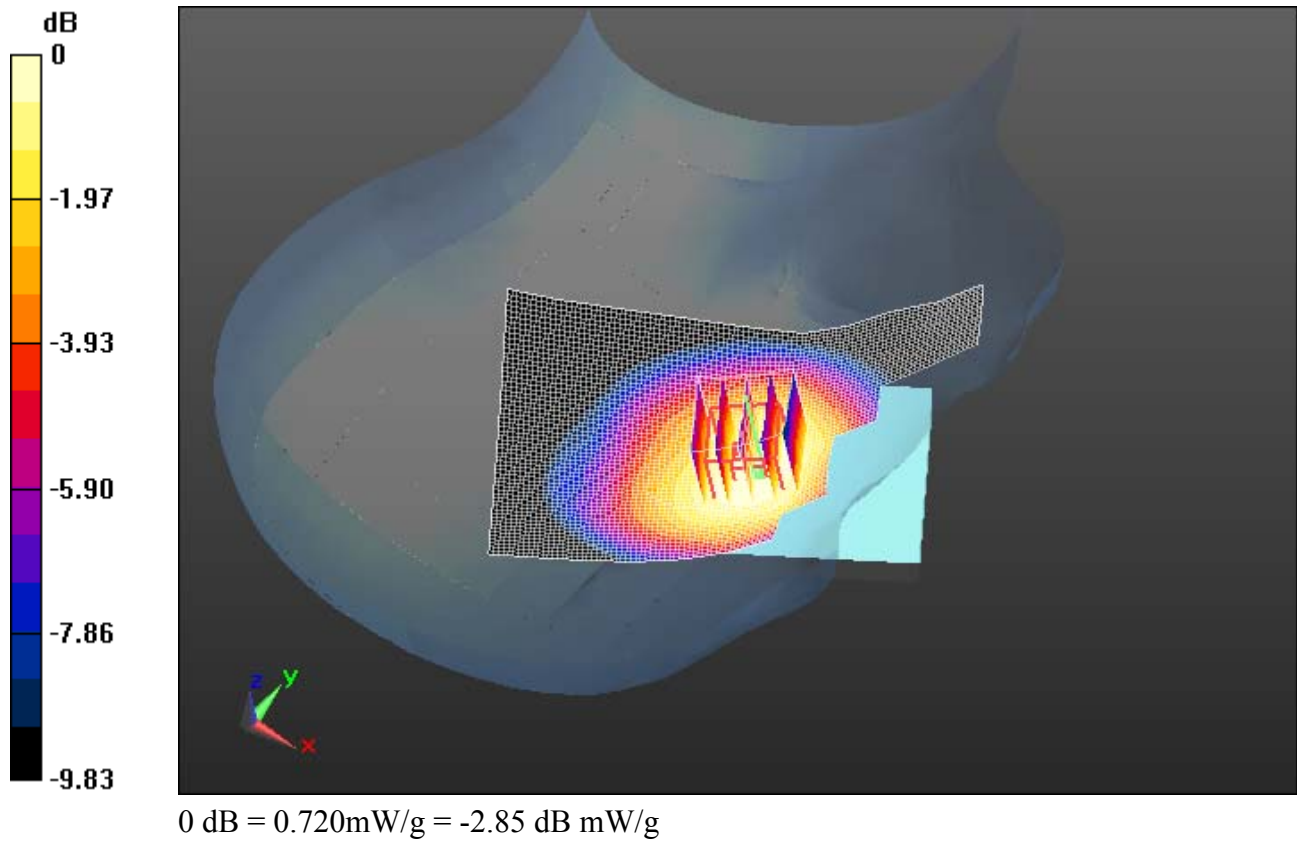
Peak SAR (extrapolated) = 0.8320

SAR(1 g) = 0.662 mW/g; SAR(10 g) = 0.501 mW/g

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

Maximum value of SAR (measured) = 0.721 mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW



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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 4:41:29 AM

Test Laboratory: RIM Testing Services

**LeftHandSide_DTM/EDGE850_mid_chan_amb_temp_23.3C_liq_temp_2
2.0C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.113$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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

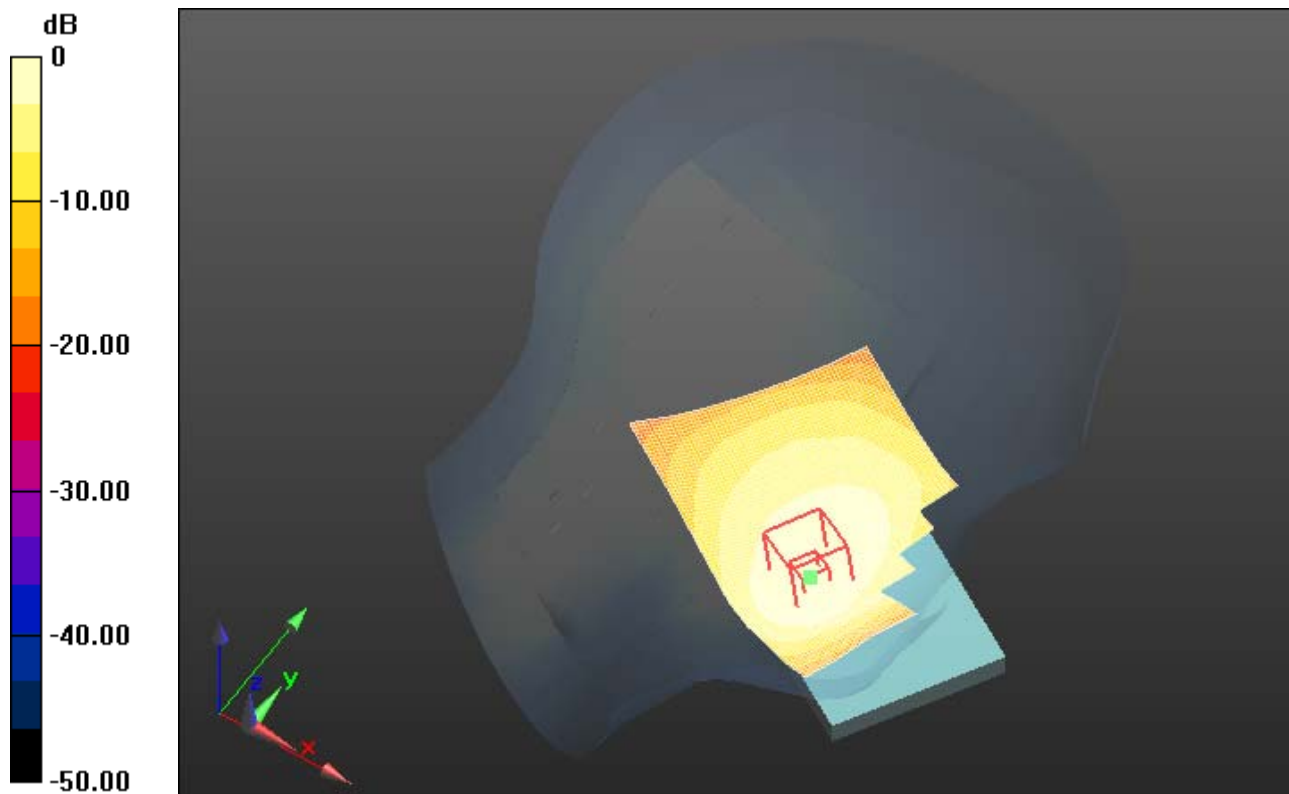
Reference Value = 10.609 V/m; Power Drift = -0.22 dB

Fast SAR: SAR(1 g) = 0.685 mW/g; SAR(10 g) = 0.470 mW/g

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

Maximum value of SAR (interpolated) = 0.781 mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW



0 dB = 0.780mW/g = -2.16 dB mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 3:30:34 AM

Test Laboratory: RIM Testing Services

**LeftHandSide_DTM/EDGE850_3slots_mid_chan_amb_temp_23.3C_liq_
temp_22.0C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 850 (3 slots); Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.113$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

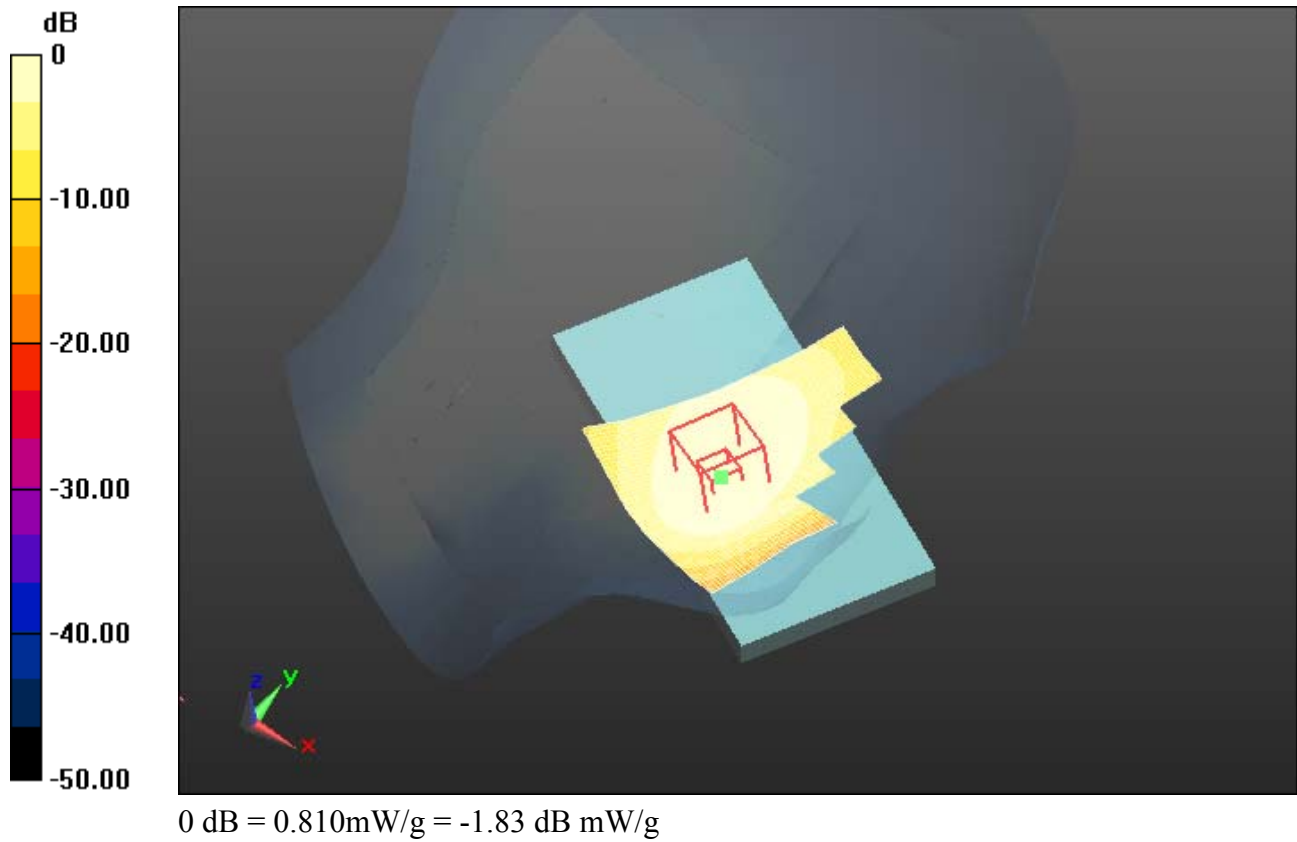
Reference Value = 10.747 V/m; Power Drift = -0.16 dB

Fast SAR: SAR(1 g) = 0.706 mW/g; SAR(10 g) = 0.485 mW/g

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

Maximum value of SAR (interpolated) = 0.806 mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW



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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 3:50:11 AM

Test Laboratory: RIM Testing Services

**LeftHandSide_DTM/EDGE850_4slots_low_chan_amb_temp_23.2C_liq_t
emp_22.0C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 850 (4 slots); Frequency: 824.2 MHz
Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.877 \text{ mho/m}$; $\epsilon_r = 40.257$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:

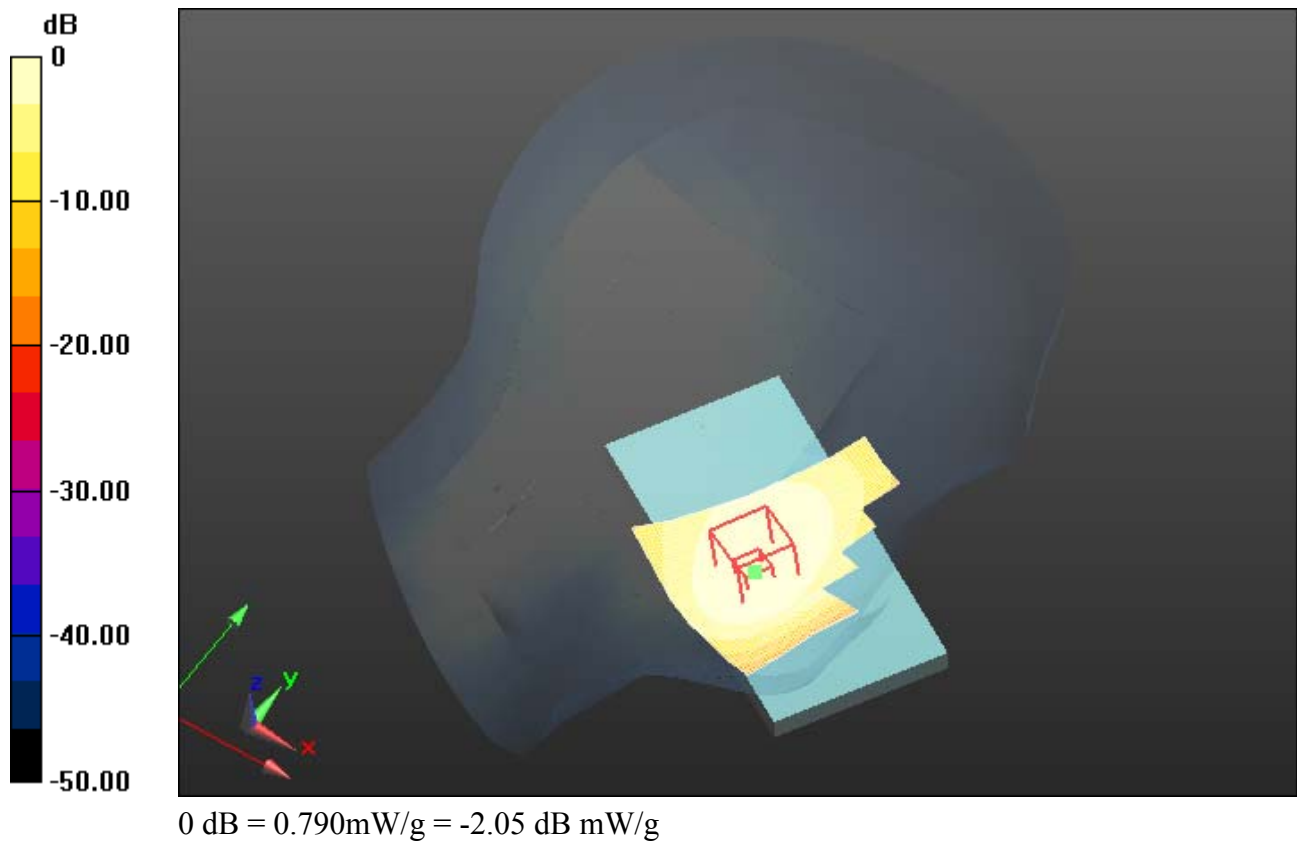
$dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 10.312 V/m; Power Drift = 0.30 dB

Fast SAR: SAR(1 g) = 0.697 mW/g; SAR(10 g) = 0.479 mW/g

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

	Document Appendix B for the BlackBerry® Smartphone Model RFL111LW SAR Report			Page 40(219)
Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW



	Document Appendix B for the BlackBerry® Smartphone Model RFL111LW SAR Report			Page 41(219)
Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 3:41:08 AM

Test Laboratory: RIM Testing Services

**LeftHandSide_DTM/EDGE850_4slots_mid_chan_amb_temp_23.3C_liq_
temp_22.0C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 850 (4 slots); Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.113$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

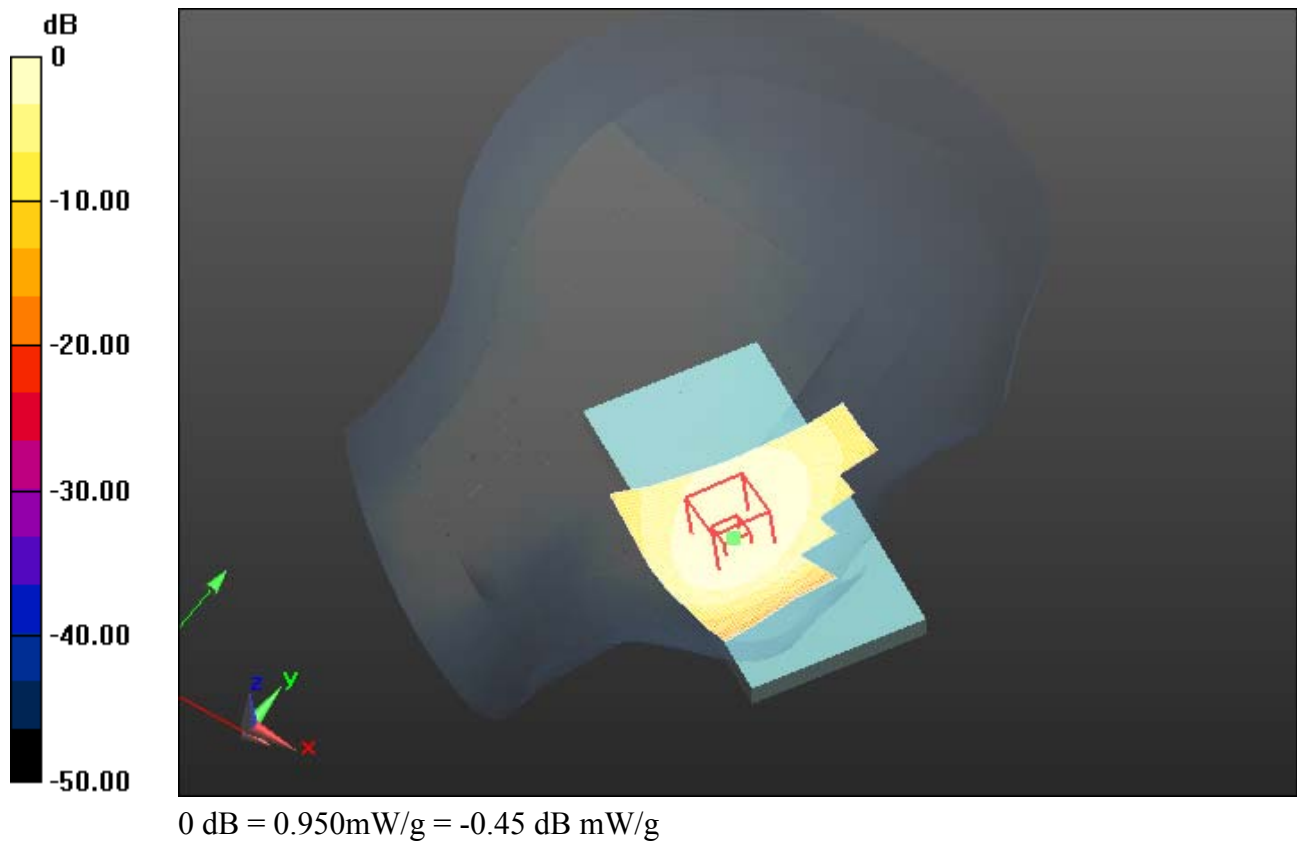
Reference Value = 11.518 V/m; Power Drift = -0.14 dB

Fast SAR: SAR(1 g) = 0.830 mW/g; SAR(10 g) = 0.568 mW/g

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

Maximum value of SAR (interpolated) = 0.947 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RFL111LW SAR Report			Page 42(219)
Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW



	Document Appendix B for the BlackBerry® Smartphone Model RFL111LW SAR Report			Page 43(219)
Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 4:04:49 AM

Test Laboratory: RIM Testing Services

**LeftHandSide_DTM/EDGE850_4slots_high_chan_amb_temp_23.2C_liq
_temp_22.0C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 850 (4 slots); Frequency: 848.8 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.902$ mho/m; $\epsilon_r = 39.967$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

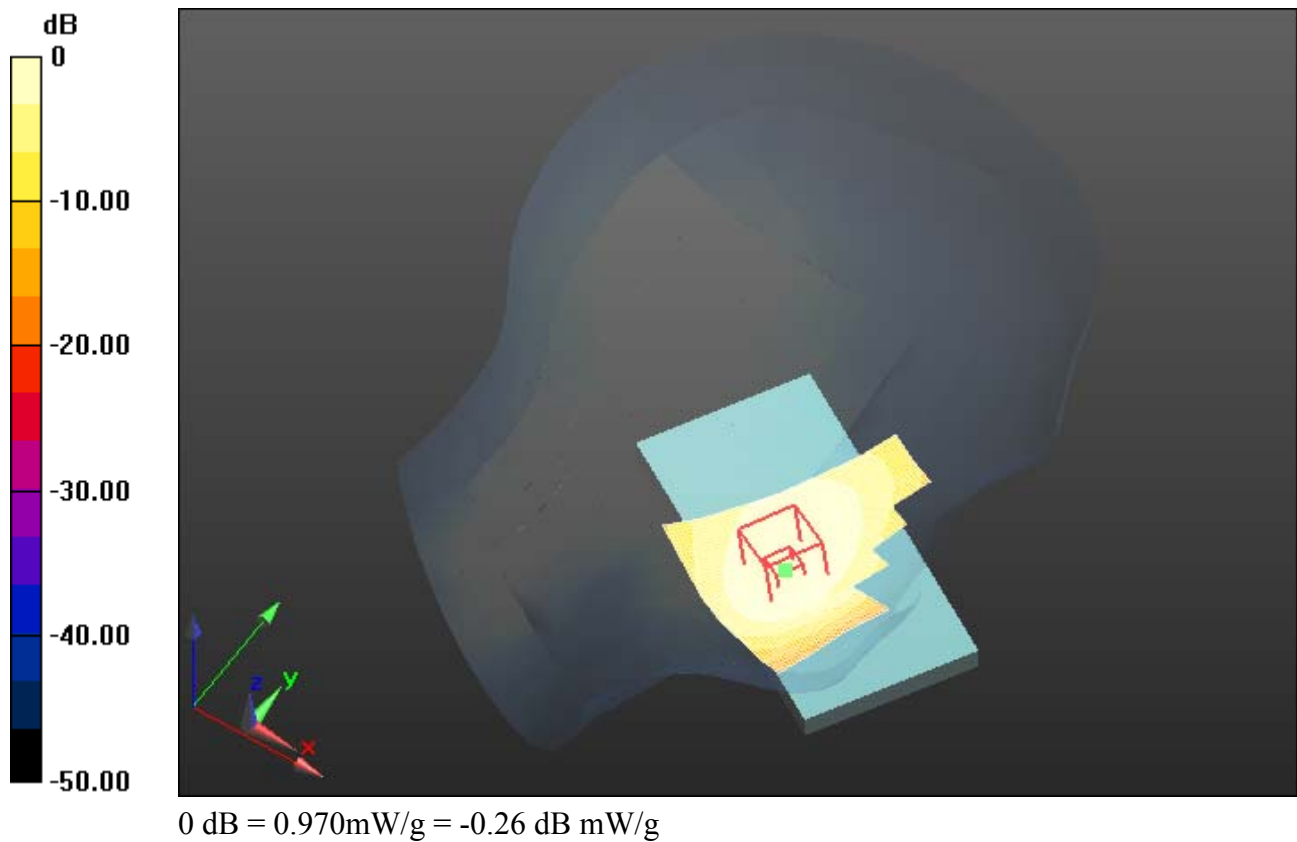
Reference Value = 11.803 V/m; Power Drift = 0.20 dB

Fast SAR: SAR(1 g) = 0.854 mW/g; SAR(10 g) = 0.584 mW/g

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

Maximum value of SAR (interpolated) = 0.975 mW/g

	Document Appendix B for the BlackBerry® Smartphone Model RFL111LW SAR Report			Page 44(219)
Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW



	Document Appendix B for the BlackBerry® Smartphone Model RFL111LW SAR Report				Page 45(219)
Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW	

Date/Time: 12/10/2012 4:04:49 AM

Test Laboratory: RIM Testing Services

LeftHandSide_EDGE850_4slots_high_chan_amb_temp_23.2C_liq_temp_22.0C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 850 (4 slots); Frequency: 848.8 MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.902$ mho/m; $\epsilon_r = 39.967$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.975 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 = 11.803 V/m; Power Drift = 0.20 dB

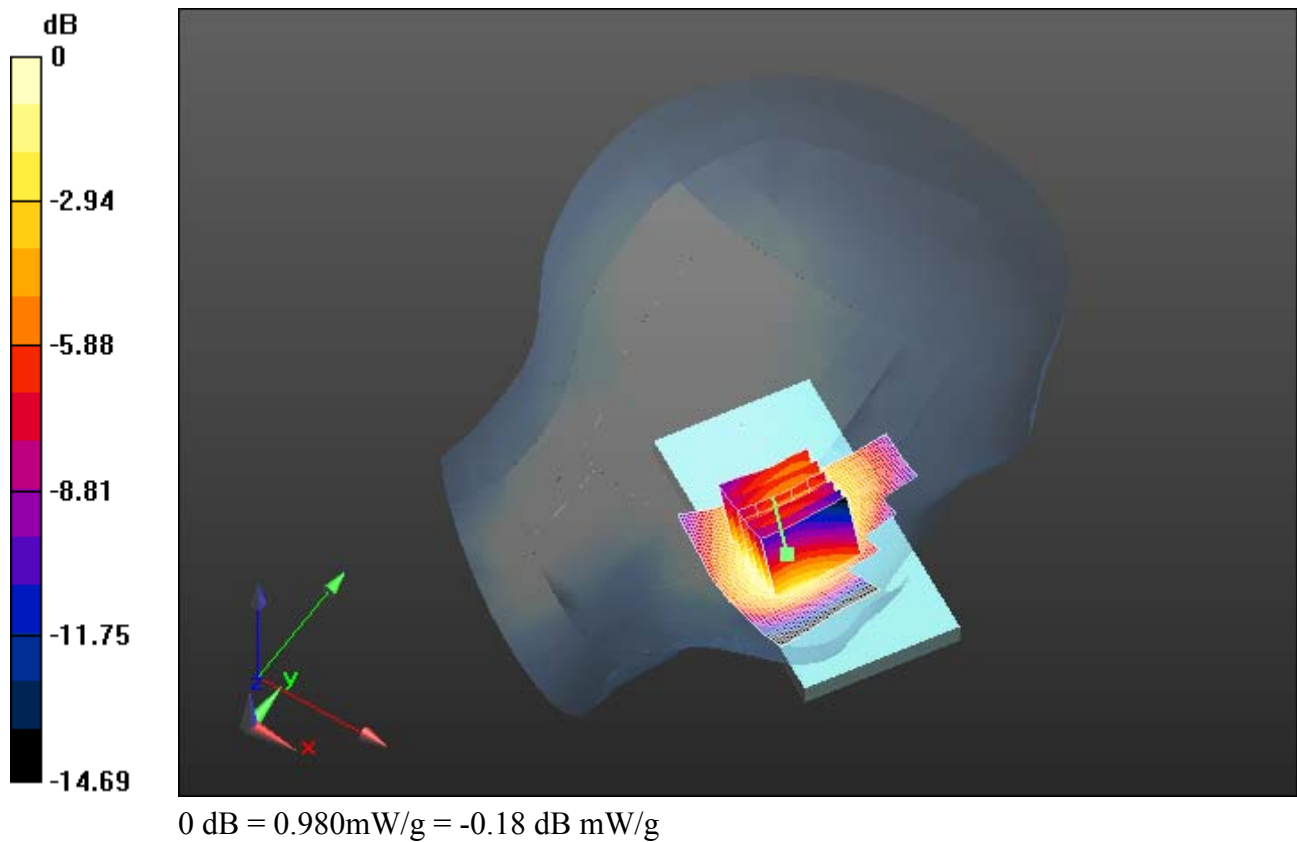
Peak SAR (extrapolated) = 1.1350

SAR(1 g) = 0.887 mW/g; SAR(10 g) = 0.647 mW/g

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

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

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 4:04:49 AM

Test Laboratory: RIM Testing Services

LeftHandSide_EDGE850_4slots_high_chan_amb_temp_23.2C_liq_temp_22.5C_2nd_scan

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 850 (4 slots); Communication System Band: EDGE (4 slots); Frequency: 848.8 MHz; Communication System PAR: 3.222 dB; PMF: 1.44911
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.902 \text{ mho/m}$; $\epsilon_r = 39.967$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.975 mW/g

Configuration/Touch position - 2/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

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

Reference Value = 14.059 V/m; Power Drift = -0.14 dB

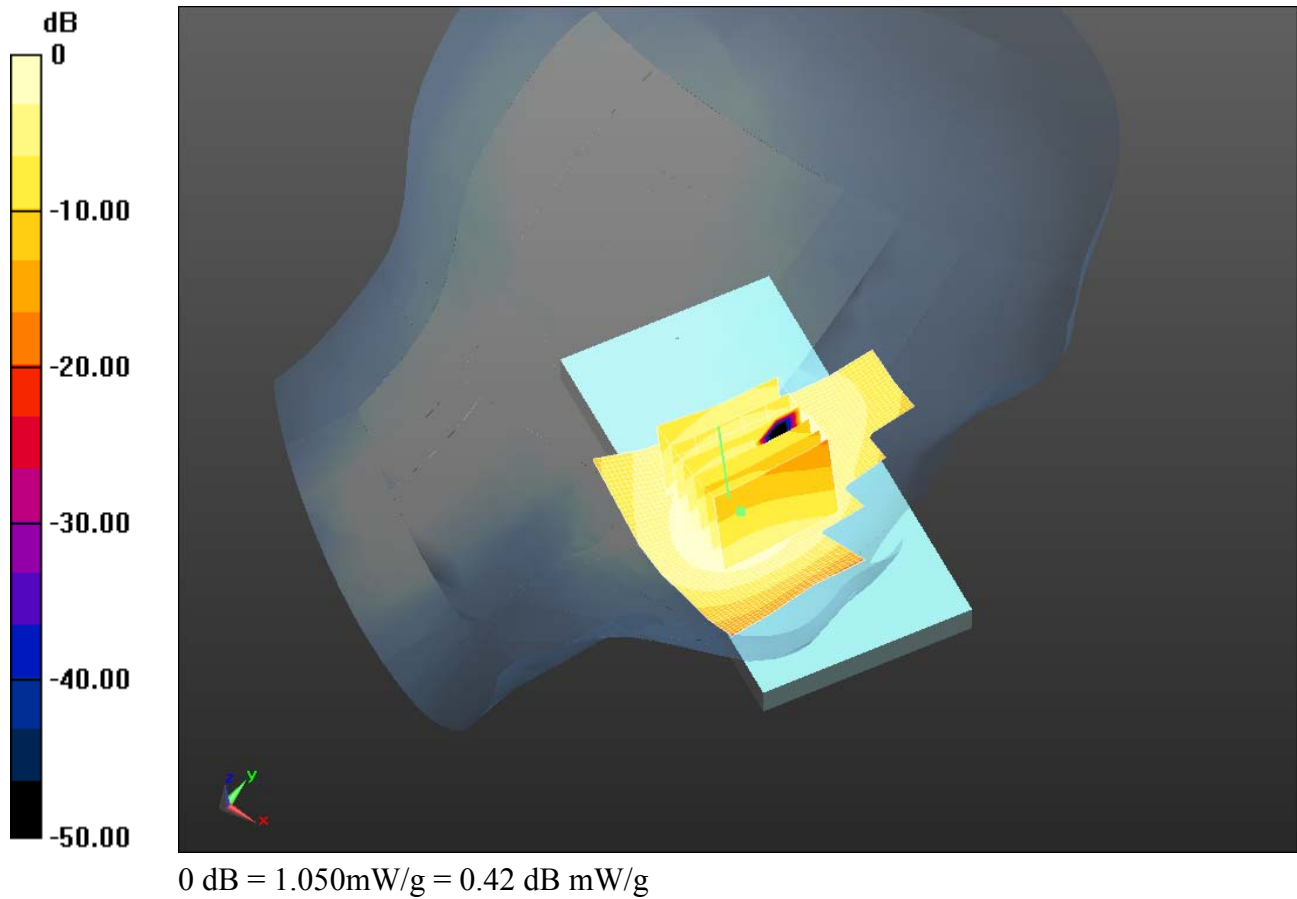
Peak SAR (extrapolated) = 1.2390

SAR(1 g) = 0.940 mW/g; SAR(10 g) = 0.673 mW/g

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

Maximum value of SAR (measured) = 1.050 mW/g

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Date/Time: 12/10/2012 5:14:16 AM

Test Laboratory: RIM Testing Services

**LeftHandSide_Tilt_DTM/EDGE850_mid_chan_amb_temp_23.1C_liq_tem
p_22.0C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz
Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.113$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 0.446 mW/g

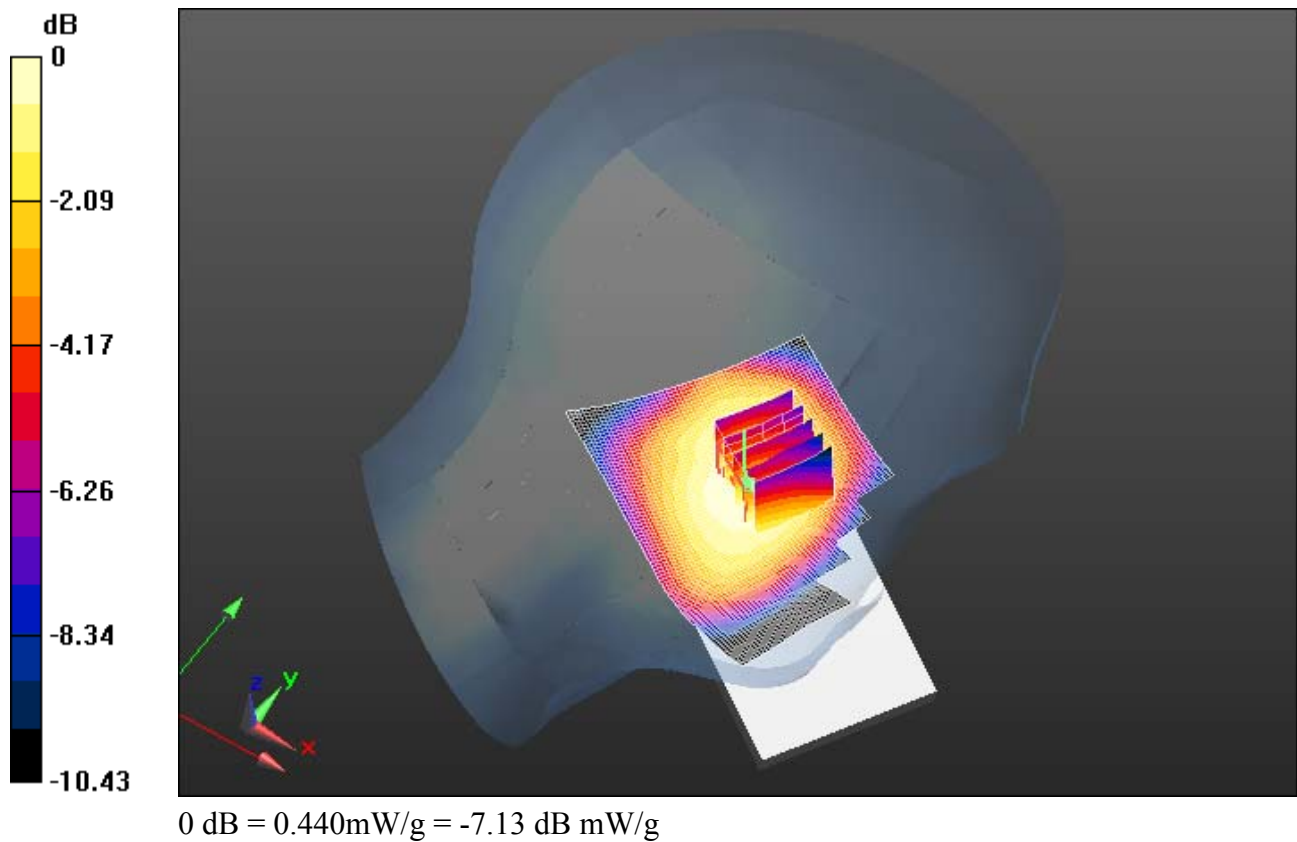
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 18.812 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.5000
SAR(1 g) = 0.400 mW/g; SAR(10 g) = 0.301 mW/g

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

Maximum value of SAR (measured) = 0.439 mW/g

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Date/Time: 12/10/2012 4:54:17 AM

Test Laboratory: RIM Testing Services

LeftHandSide_GSM850_mid_chan_amb_temp_23.2C_liq_temp_22.0C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: GSM 850; Frequency: 836.8 MHz

Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.113$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

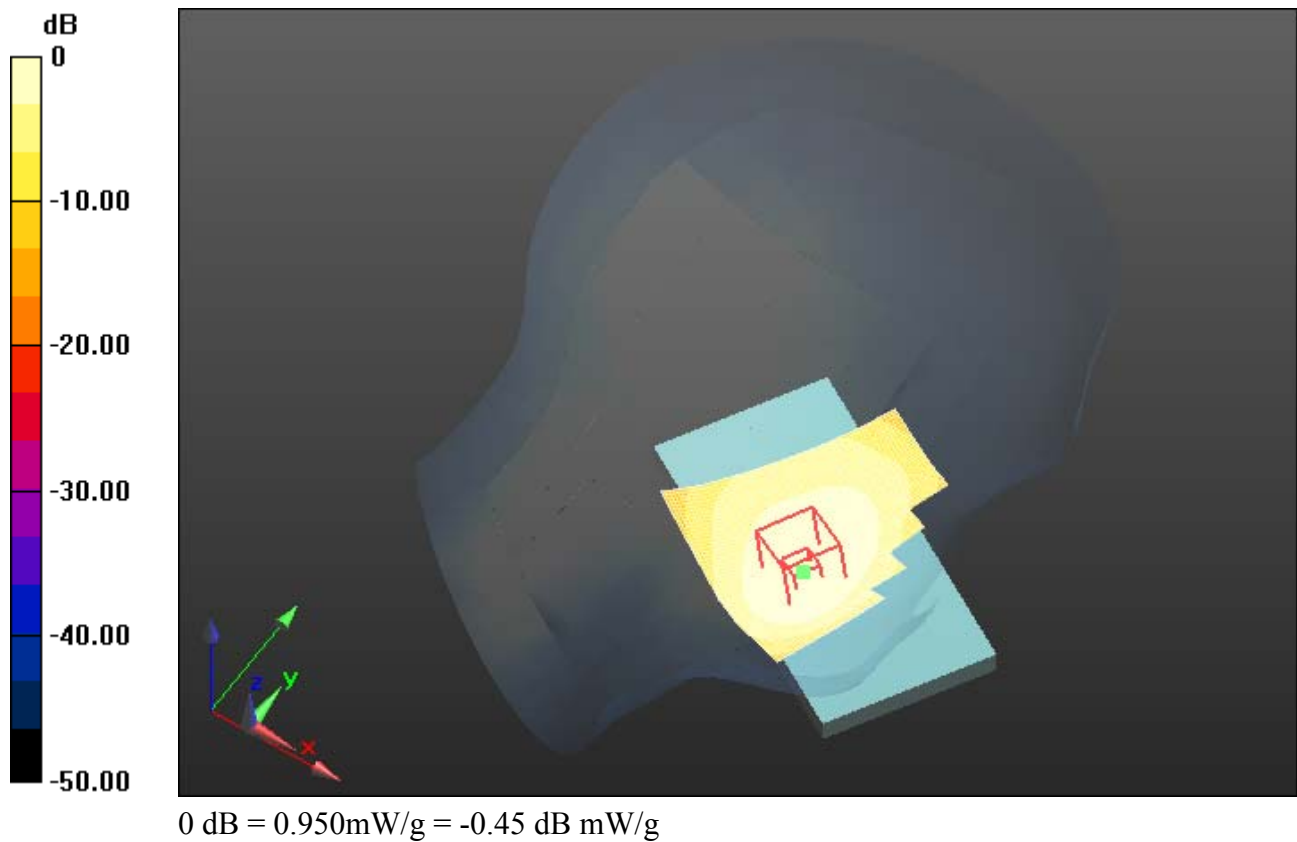
Reference Value = 11.219 V/m; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 0.833 mW/g; SAR(10 g) = 0.570 mW/g

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

Maximum value of SAR (interpolated) = 0.950 mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/10/2012 4:04:49 AM

Test Laboratory: RIM Testing Services

LeftHandSide_EDGE850_4slots_high_chan_amb_temp_23.6C_liq_temp_22.2C_2100mA_batt

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 850 (4 slots); Communication System Band: EDGE (4 slots); Frequency: 848.8 MHz; Communication System PAR: 3.222 dB; PMF: 1.44911
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.902 \text{ mho/m}$; $\epsilon_r = 39.967$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.975 mW/g

Configuration/Touch position - 2/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

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

Reference Value = 14.377 V/m; Power Drift = -0.18 dB

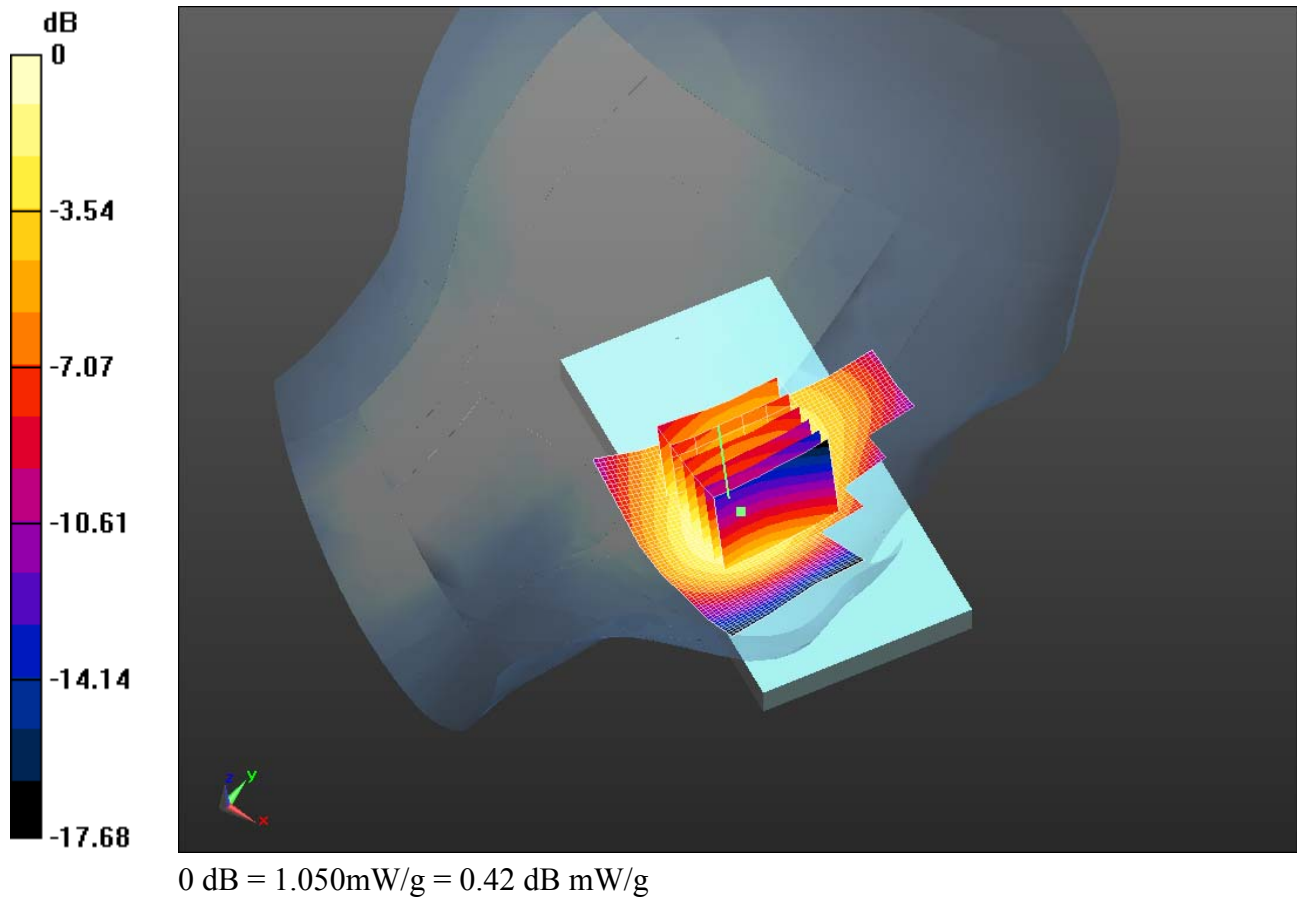
Peak SAR (extrapolated) = 1.2350

SAR(1 g) = 0.939 mW/g; SAR(10 g) = 0.667 mW/g

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

Maximum value of SAR (measured) = 1.055 mW/g

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UMTS Band

V

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Date/Time: 12/9/2012 10:52:05 PM

Test Laboratory: RIM Testing Services

RightHandSide_UMTS_Band_V_mid_chan_amb_temp_23.6C_liq_temp_22.3C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.118$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

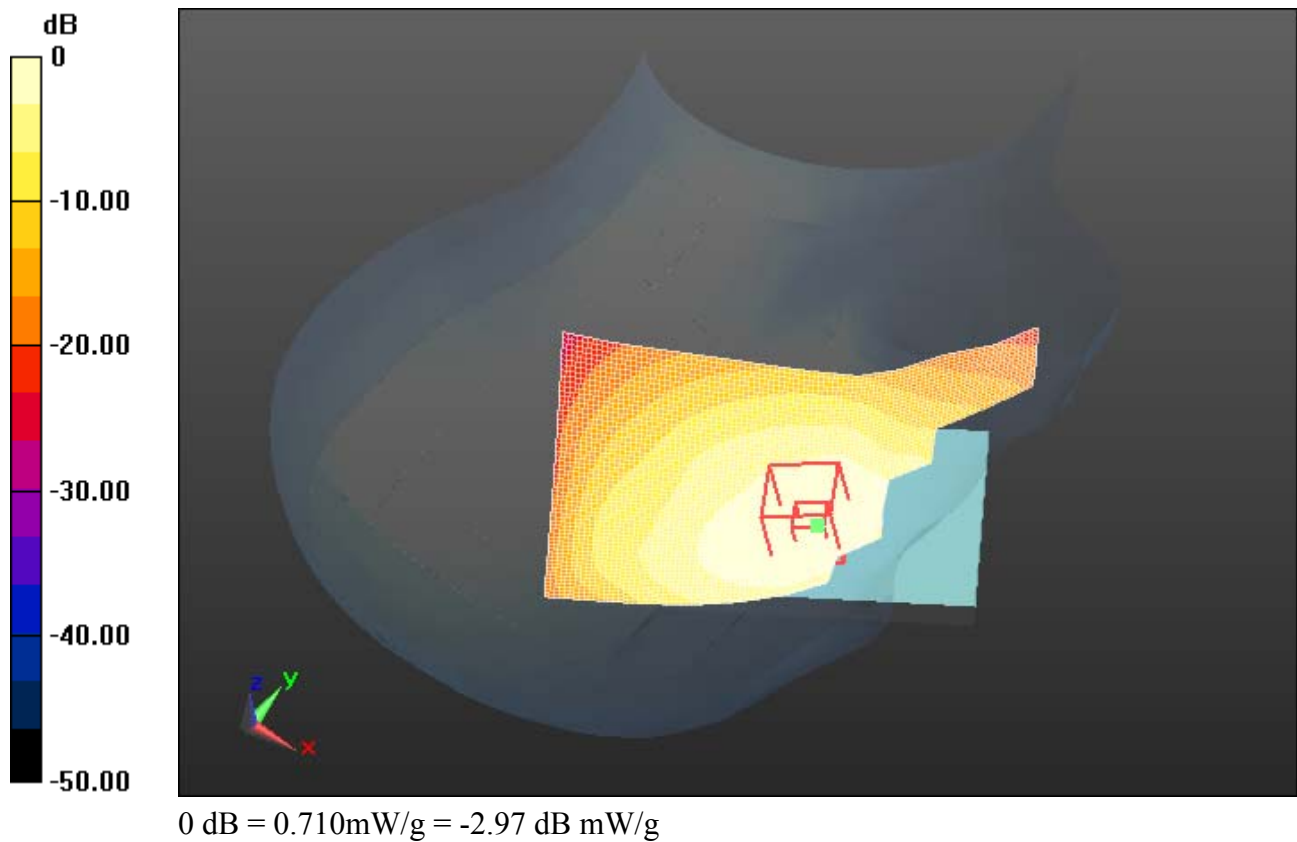
Reference Value = 9.588 V/m; Power Drift = 0.22 dB

Fast SAR: SAR(1 g) = 0.626 mW/g; SAR(10 g) = 0.434 mW/g

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

Maximum value of SAR (interpolated) = 0.708 mW/g

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Date/Time: 12/9/2012 11:04:59 PM

Test Laboratory: RIM Testing Services

RightHandSide_Tilt_UMTS_Band_V_mid_chan_amb_temp_23.5C_liq_temp_22.1C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.118$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

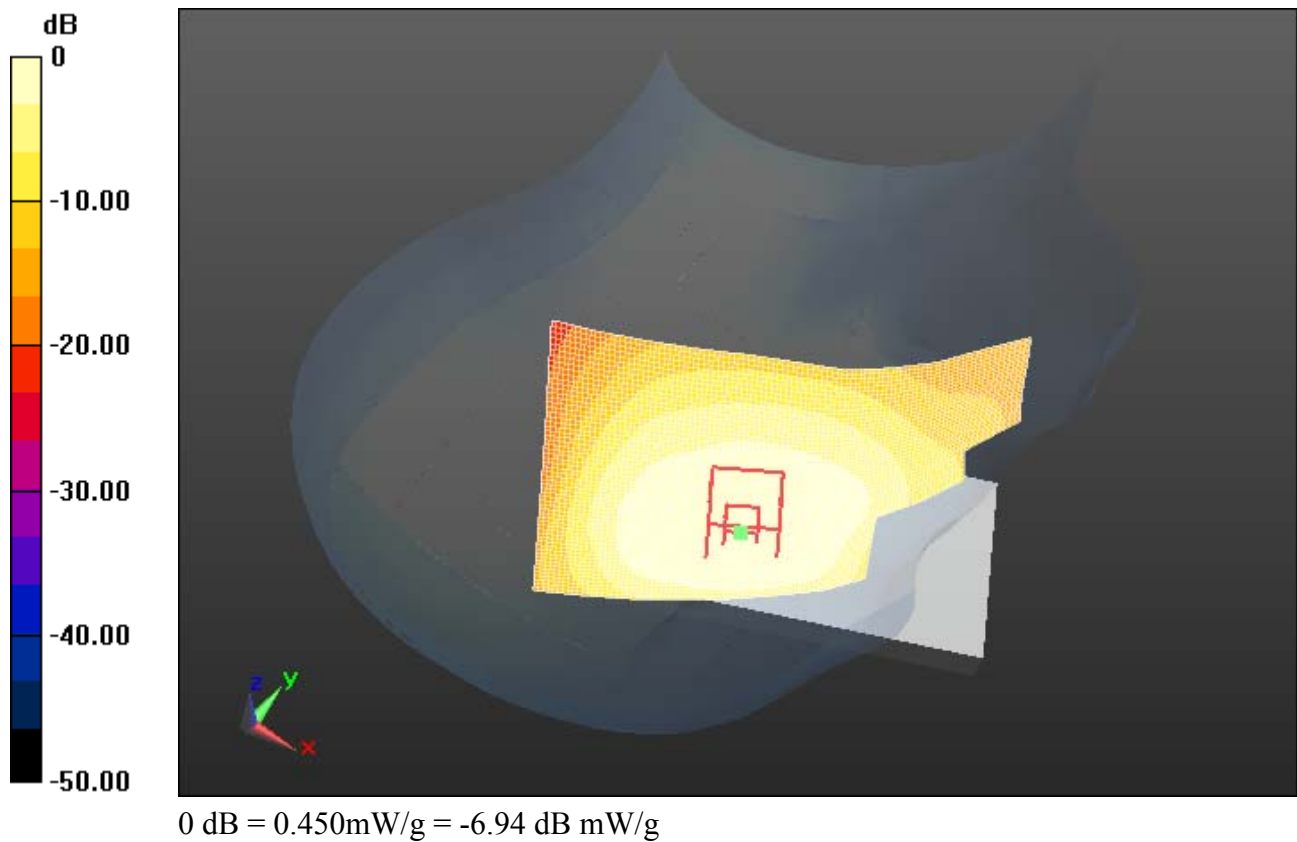
Reference Value = 16.919 V/m; Power Drift = 0.17 dB

Fast SAR: SAR(1 g) = 0.392 mW/g; SAR(10 g) = 0.275 mW/g

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

Maximum value of SAR (interpolated) = 0.447 mW/g

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Date/Time: 12/9/2012 10:14:06 PM

Test Laboratory: RIM Testing Services

LeftHandSide_UMTS_Band_V_low_chan_amb_temp_24.1C_liq_temp_2 2.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD V; Frequency: 826.4 MHz

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.879$ mho/m; $\epsilon_r = 40.243$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

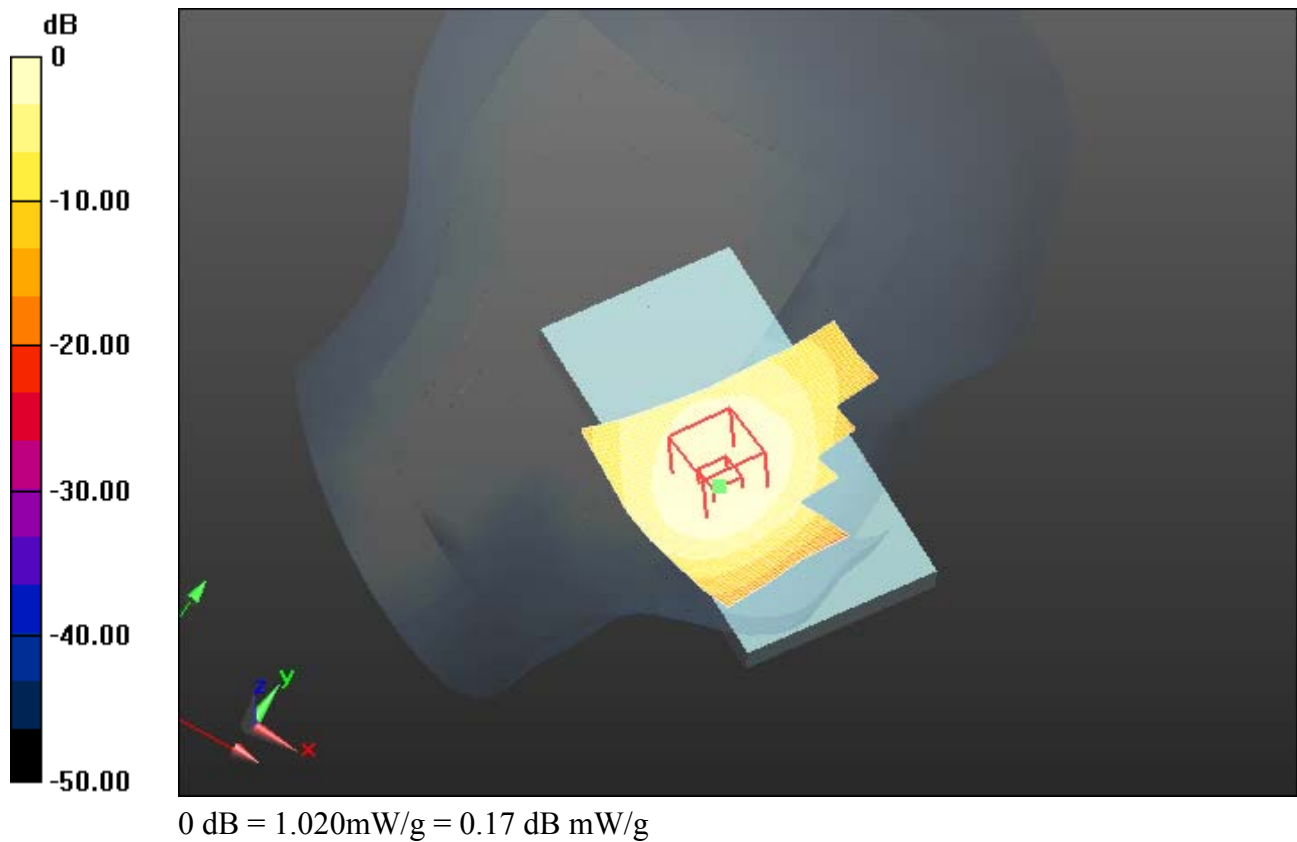
Reference Value = 10.933 V/m; Power Drift = 0.03 dB

Fast SAR: SAR(1 g) = 0.898 mW/g; SAR(10 g) = 0.611 mW/g

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

Maximum value of SAR (interpolated) = 1.023 mW/g

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Date/Time: 12/9/2012 10:01:46 PM

Test Laboratory: RIM Testing Services

LeftHandSide_UMTS_Band_V_mid_chan_amb_temp_24.8C_liq_temp_2 2.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.118$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

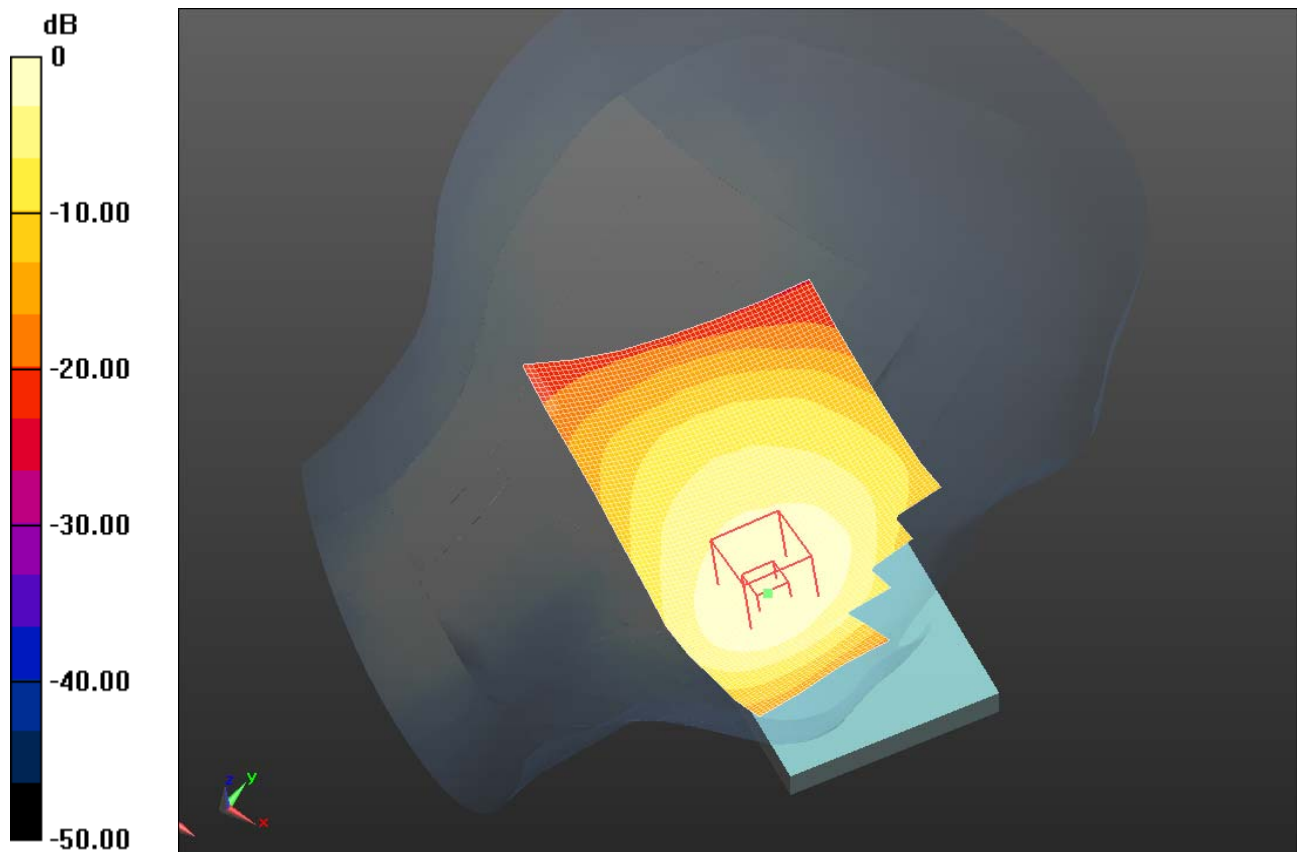
Reference Value = 11.296 V/m; Power Drift = -0.11 dB

Fast SAR: SAR(1 g) = 0.894 mW/g; SAR(10 g) = 0.609 mW/g

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

Maximum value of SAR (interpolated) = 1.020 mW/g

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0 dB = 1.020mW/g = 0.17 dB mW/g

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Date/Time: 12/9/2012 10:24:26 PM

Test Laboratory: RIM Testing Services

LeftHandSide_UMTS_Band_V_high_chan_amb_temp_23.9C_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD V; Frequency: 846.6 MHz

Medium parameters used (interpolated): $f = 846.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 39.973$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:

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

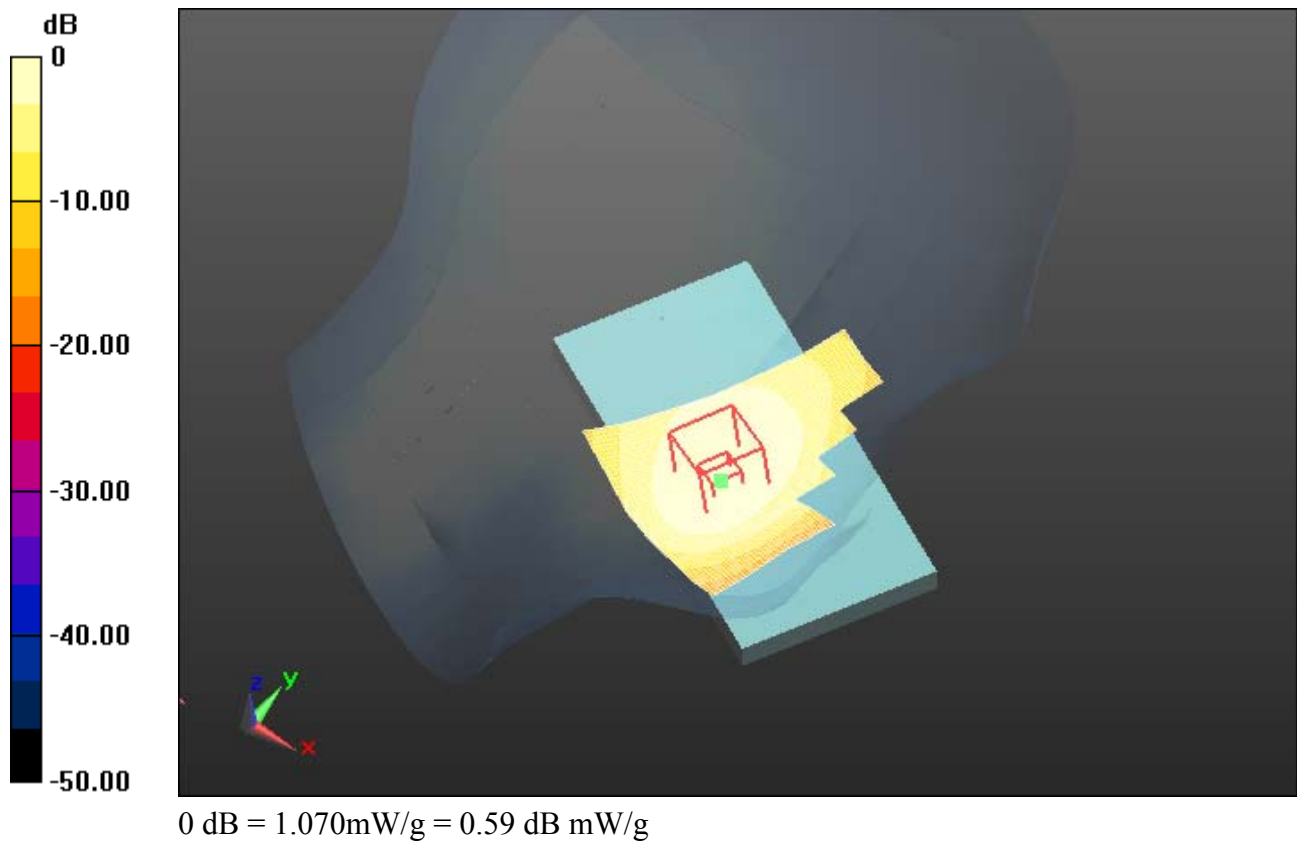
Reference Value = 11.974 V/m ; Power Drift = -0.04 dB

Fast SAR: SAR(1 g) = 0.934 mW/g ; SAR(10 g) = 0.638 mW/g

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

Maximum value of SAR (interpolated) = 1.067 mW/g

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Date/Time: 12/9/2012 10:24:26 PM

Test Laboratory: RIM Testing Services

LeftHandSide_UMTS_Band_V_high_chan_amb_temp_23.9C_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD V; Frequency: 846.6 MHz

Medium parameters used (interpolated): $f = 846.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 39.973$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.067 mW/g

Configuration/Touch position - 2/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

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

Reference Value = 13.306 V/m ; Power Drift = -0.08 dB

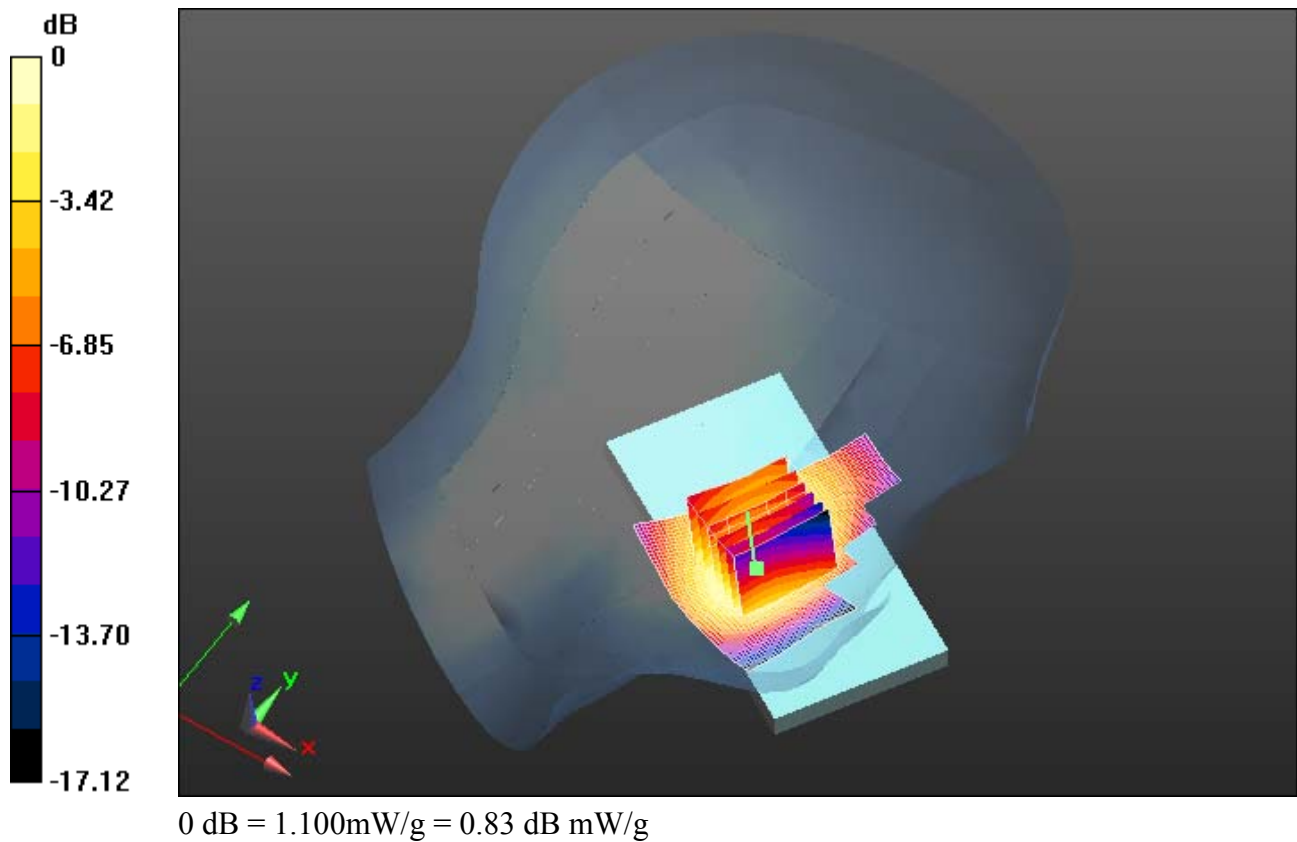
Peak SAR (extrapolated) = 1.2900

SAR(1 g) = 0.997 mW/g ; SAR(10 g) = 0.723 mW/g

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

Maximum value of SAR (measured) = 1.099 mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW



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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW	

Date/Time: 12/9/2012 10:24:26 PM

Test Laboratory: RIM Testing Services

LeftHandSide_UMTS_Band_V_high_chan_amb_temp_23.0C_liq_temp_22.5C_2nd_scan

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD V; Communication System Band: UMTS band V; Frequency: 846.6 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 846.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 39.973$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
 - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.067 mW/g

Configuration/Touch position - 2/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

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

Reference Value = 13.499 V/m; Power Drift = -0.05 dB

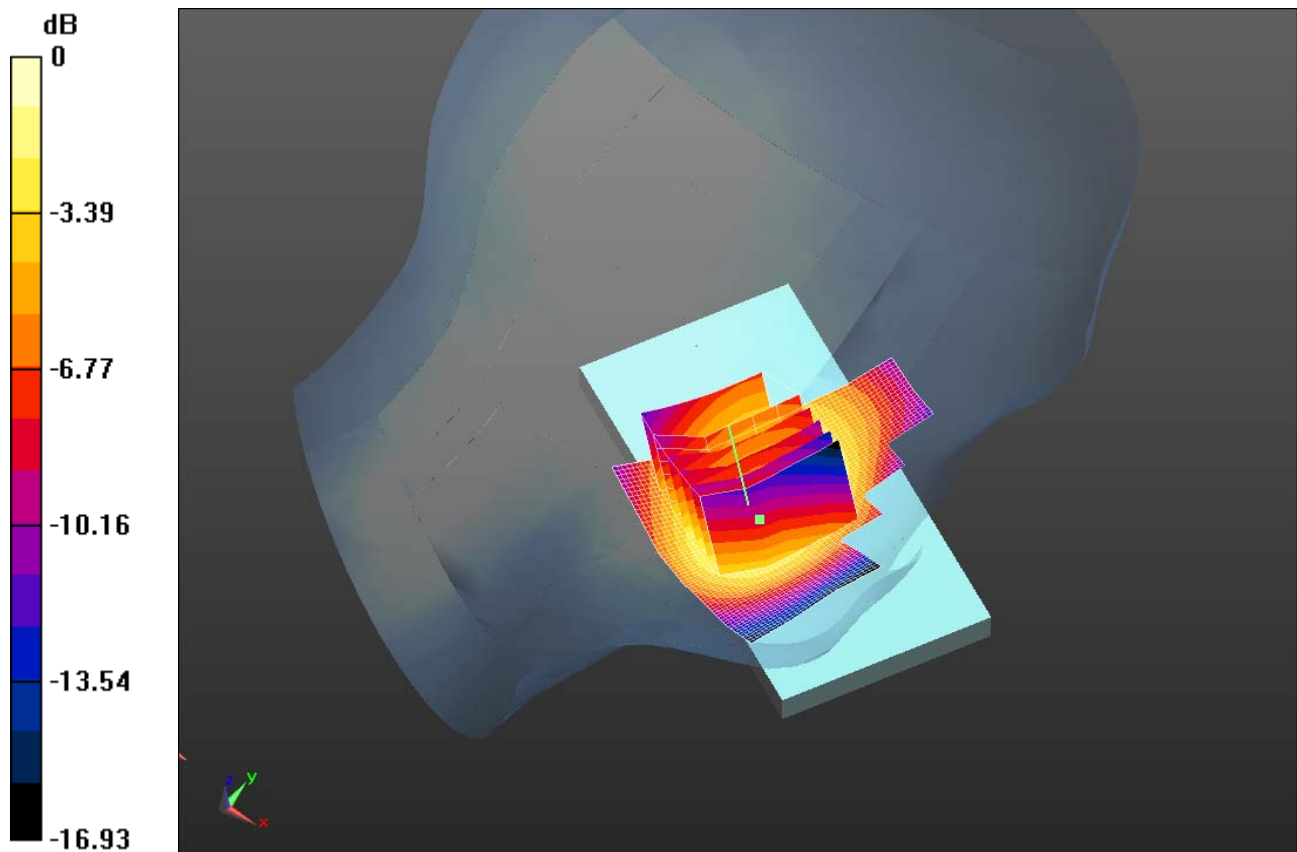
Peak SAR (extrapolated) = 1.2500

SAR(1 g) = 0.977 mW/g; SAR(10 g) = 0.707 mW/g

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

Maximum value of SAR (measured) = 1.066 mW/g

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0 dB = 1.070mW/g = 0.59 dB mW/g

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Date/Time: 12/9/2012 10:36:03 PM

Test Laboratory: RIM Testing Services

LeftHandSide_Tilt_UMTS_Band_V_mid_chan_amb_temp_23.7C_liq_temper_22.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD V; Frequency: 836.4 MHz

Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.889$ mho/m; $\epsilon_r = 40.118$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Tilt position -/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

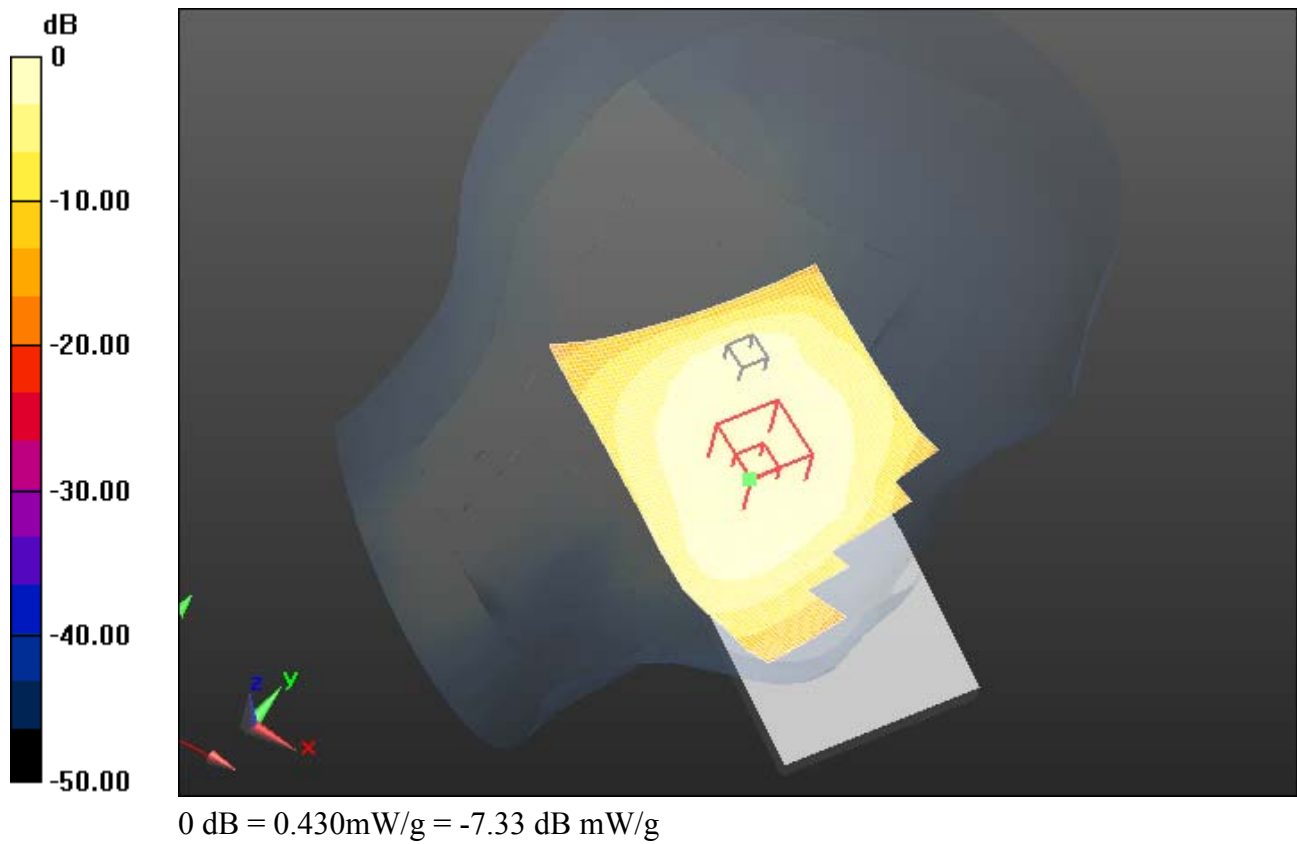
Reference Value = 18.134 V/m; Power Drift = 0.12 dB

Fast SAR: SAR(1 g) = 0.387 mW/g; SAR(10 g) = 0.275 mW/g

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

Maximum value of SAR (interpolated) = 0.431 mW/g

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Date/Time: 12/9/2012 10:24:26 PM

Test Laboratory: RIM Testing Services

LeftHandSide_UMTS_Band_V_high_chan_amb_temp_23.0C_liq_temp_22.5C_2100mA_batt

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD V; Communication System Band: UMTS band V; Frequency: 846.6 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 846.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 39.973$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x61x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.067 mW/g

Configuration/Touch position - 2/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

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

Reference Value = 13.200 V/m ; Power Drift = -0.15 dB

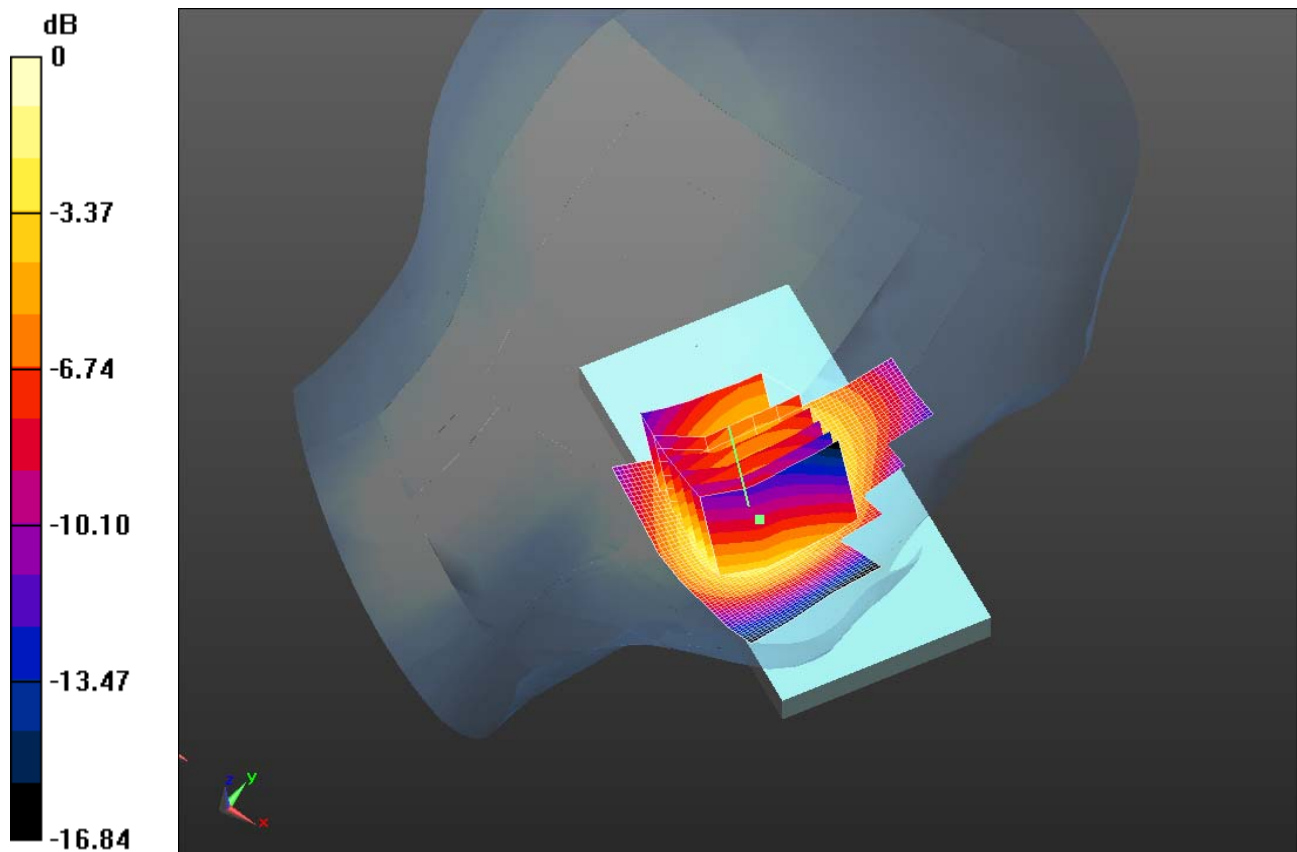
Peak SAR (extrapolated) = 1.3480

SAR(1 g) = 1.03 mW/g ; SAR(10 g) = 0.738 mW/g

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

Maximum value of SAR (measured) = 1.133 mW/g

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0 dB = 1.130mW/g = 1.06 dB mW/g

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LTE 4

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Date/Time: 12/4/2012 9:27:25 PM

Test Laboratory: RIM Testing Services

RightHandside_LTE_4_high_chan_QPSK_RB_1_Offset_99_amb_temp_23.8_liq_temp_21.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1800_Band 4; Frequency: 1745 MHz

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.376$ mho/m; $\epsilon_r = 38.905$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.933 mW/g

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

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

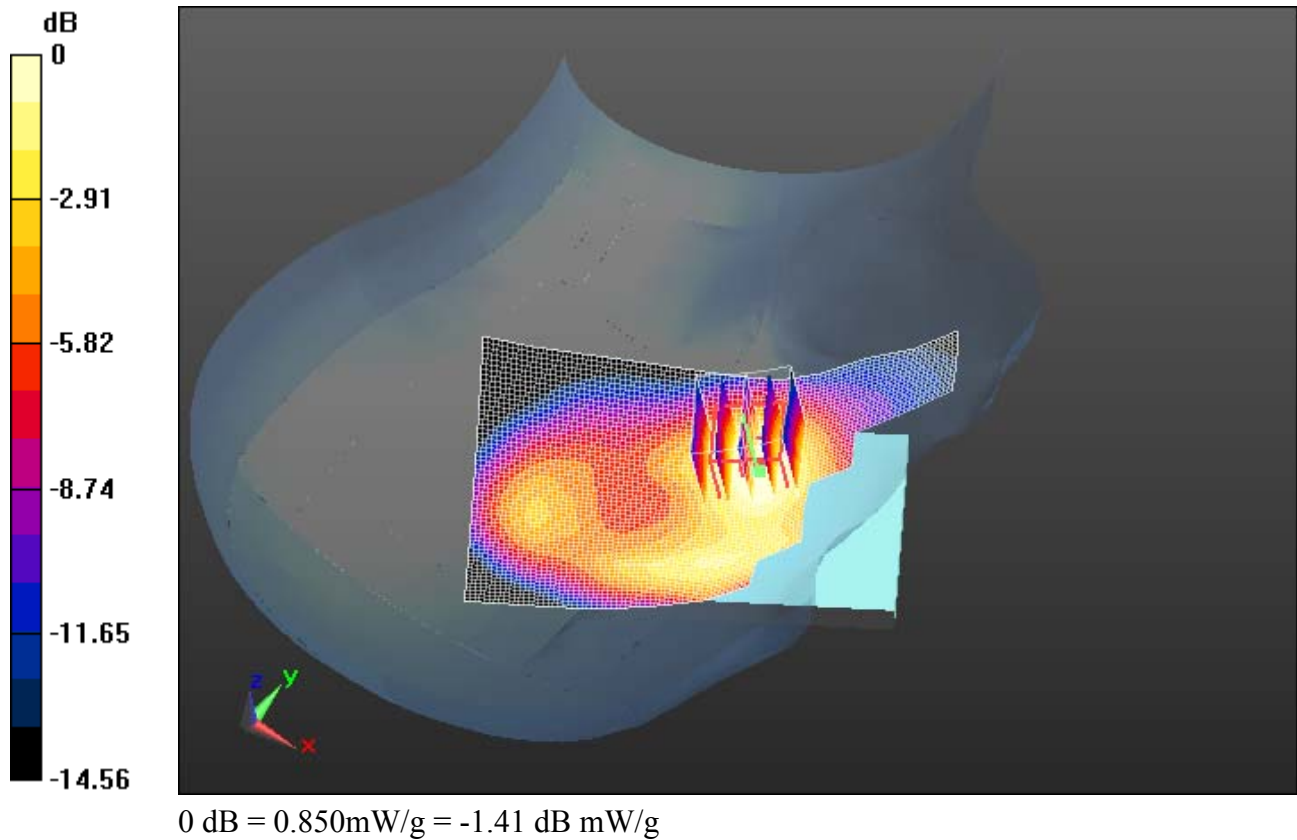
Reference Value = 15.789 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.0430

SAR(1 g) = 0.746 mW/g; SAR(10 g) = 0.476 mW/g

Maximum value of SAR (measured) = 0.854 mW/g

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Date/Time: 12/4/2012 9:44:33 PM

Test Laboratory: RIM Testing Services

RightHandside_LTE_4_high_chan_QPSK_RB_50_Offset_0_amb_temp_23.7_liq_temp_21.7C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1800_Band 4; Frequency: 1745 MHz

Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.376 \text{ mho/m}$; $\epsilon_r = 38.905$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.695 mW/g

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

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

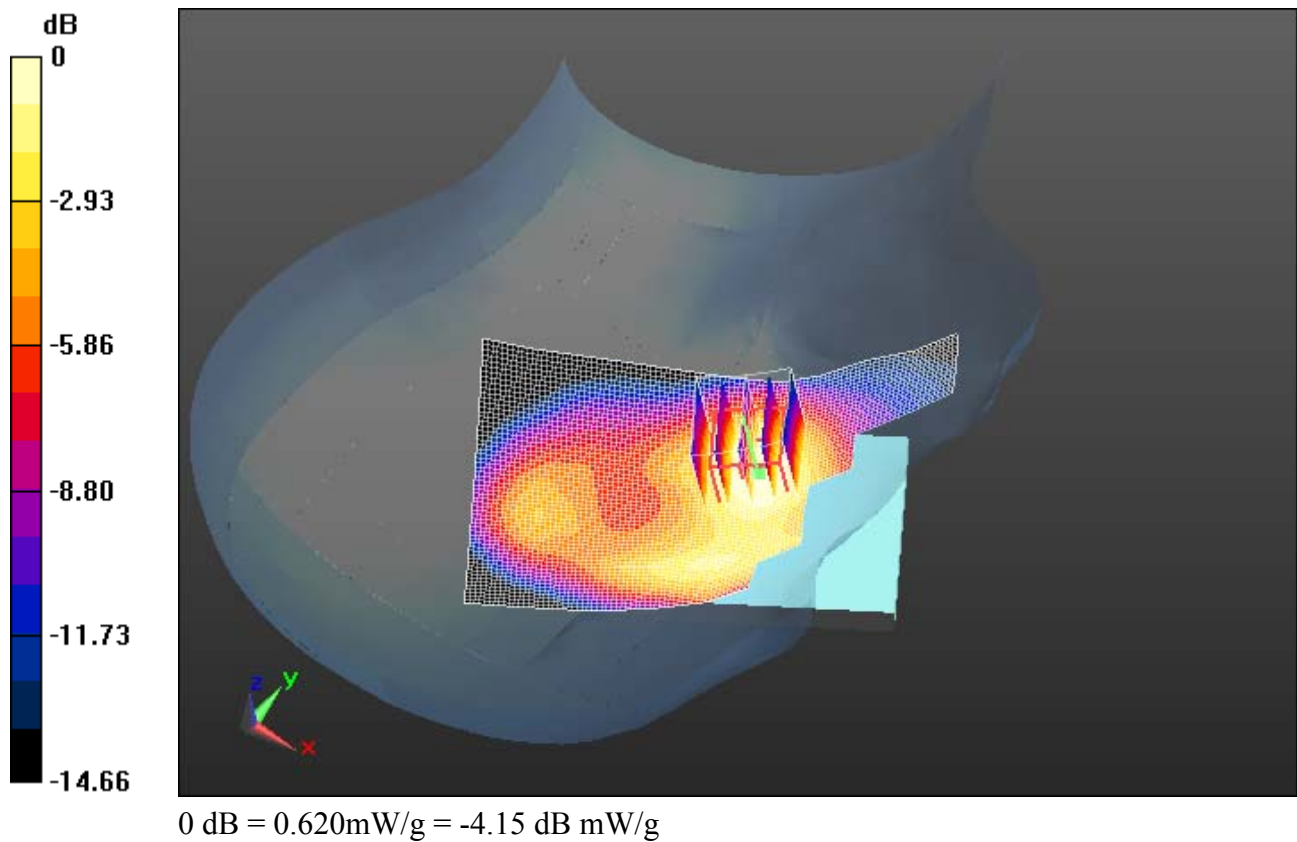
Reference Value = 13.201 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.7790

SAR(1 g) = 0.554 mW/g; SAR(10 g) = 0.356 mW/g

Maximum value of SAR (measured) = 0.625 mW/g

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Date/Time: 12/4/2012 11:20:53 PM

Test Laboratory: RIM Testing Services

**RightHandside_Tilt_LTE_4_high_chan_QPSK_RB_1_Offset_99_amb_te
mp_23.8_liq_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1800_Band 4; Frequency: 1745 MHz

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.376$ mho/m; $\epsilon_r = 38.905$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

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

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

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

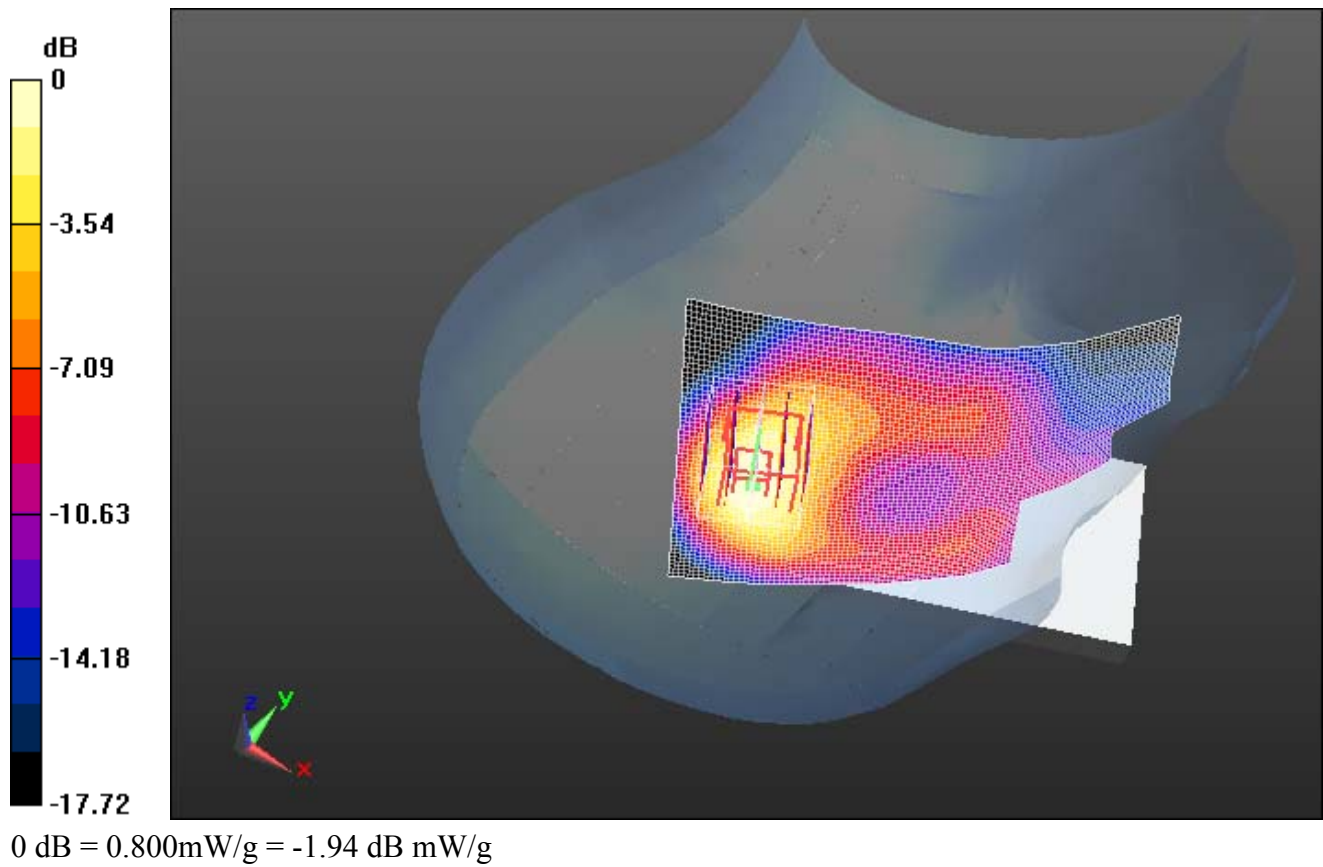
Reference Value = 21.863 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.0700

SAR(1 g) = 0.652 mW/g; SAR(10 g) = 0.366 mW/g

Maximum value of SAR (measured) = 0.797 mW/g

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Date/Time: 12/4/2012 7:36:32 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_4_low_chan_QPSK_RB_1_Offset_0_amb_temp_24.
1_liq_temp_22.5C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1800_Band 4; Frequency: 1720 MHz

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.352$ mho/m; $\epsilon_r = 39.022$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 1.388 mW/g

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

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

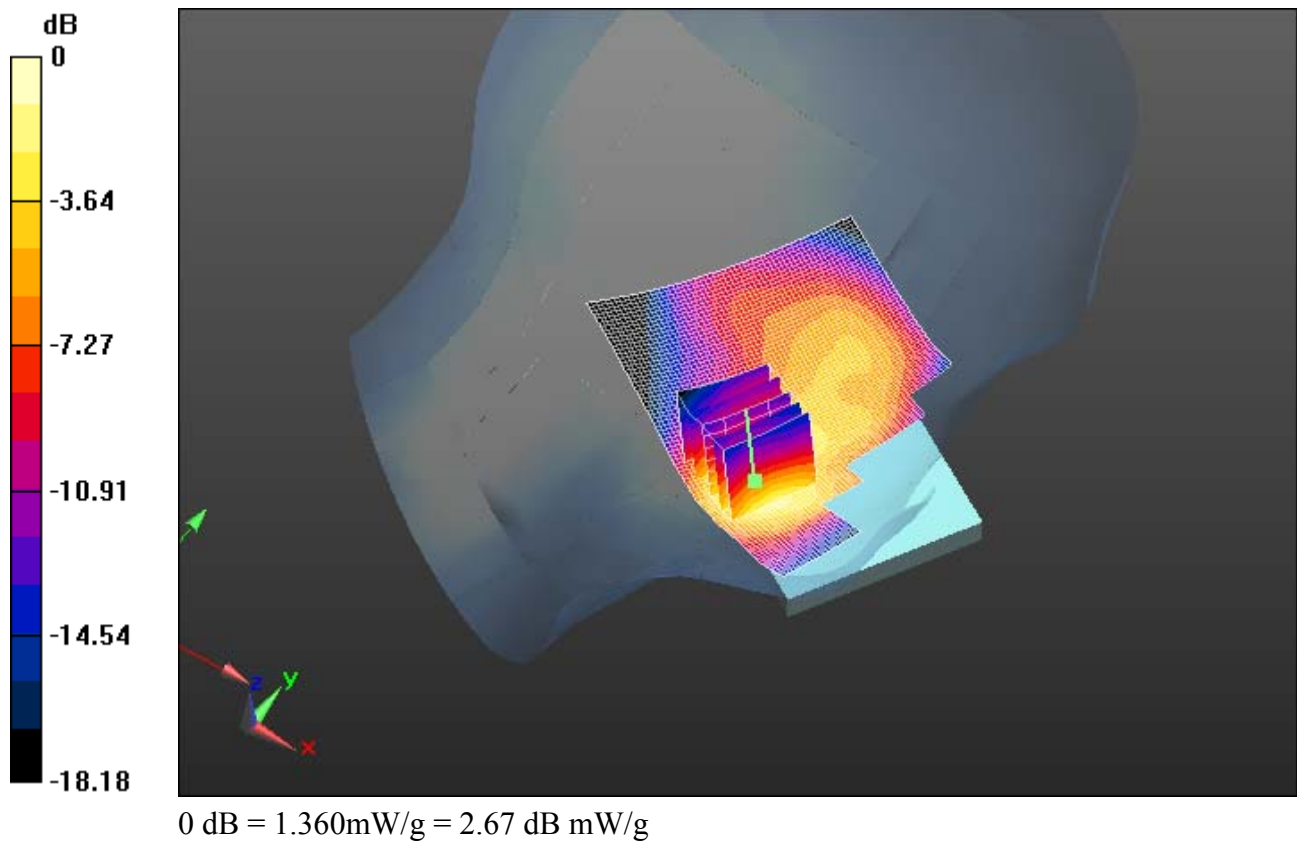
Reference Value = 11.957 V/m; Power Drift = 0.29 dB

Peak SAR (extrapolated) = 1.8370

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.642 mW/g

Maximum value of SAR (measured) = 1.357 mW/g

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Date/Time: 12/4/2012 7:19:11 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_4_mid_chan_QPSK_RB_1_Offset_99_amb_temp_23
.7_liq_temp_22.7C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1800_Band 4; Frequency: 1732.5 MHz
Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.367$ mho/m; $\epsilon_r = 38.958$;
 $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 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) = 1.405 mW/g

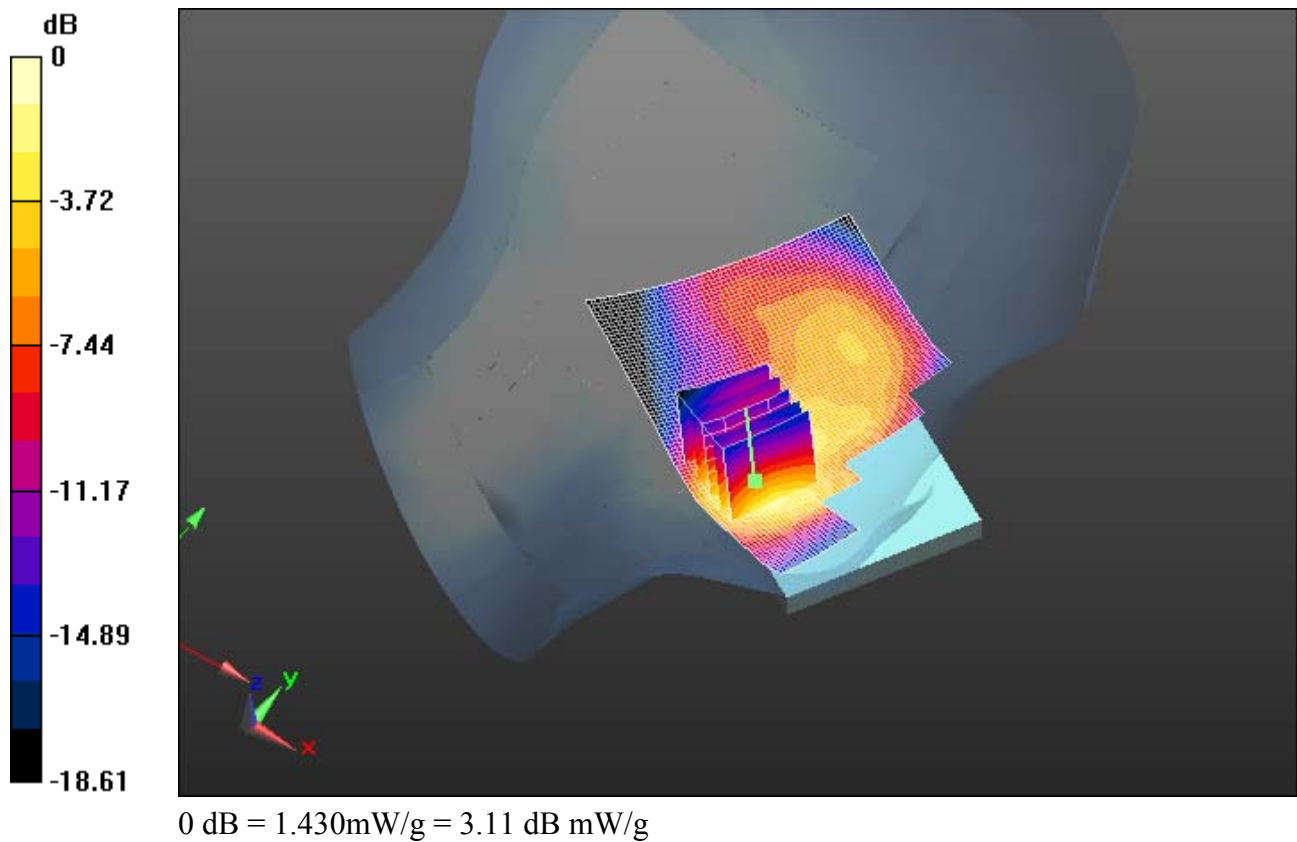
Configuration/Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm
Reference Value = 12.940 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.9720
SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.645 mW/g

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

Maximum value of SAR (measured) = 1.433 mW/g

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Date/Time: 12/4/2012 6:02:20 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_4_high_chan_QPSK_RB_1_Offset_99_amb_temp_2
4.6_liq_temp_22.9C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1800_Band 4; Frequency: 1745 MHz

Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.376 \text{ mho/m}$; $\epsilon_r = 38.905$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 1.427 mW/g

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

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

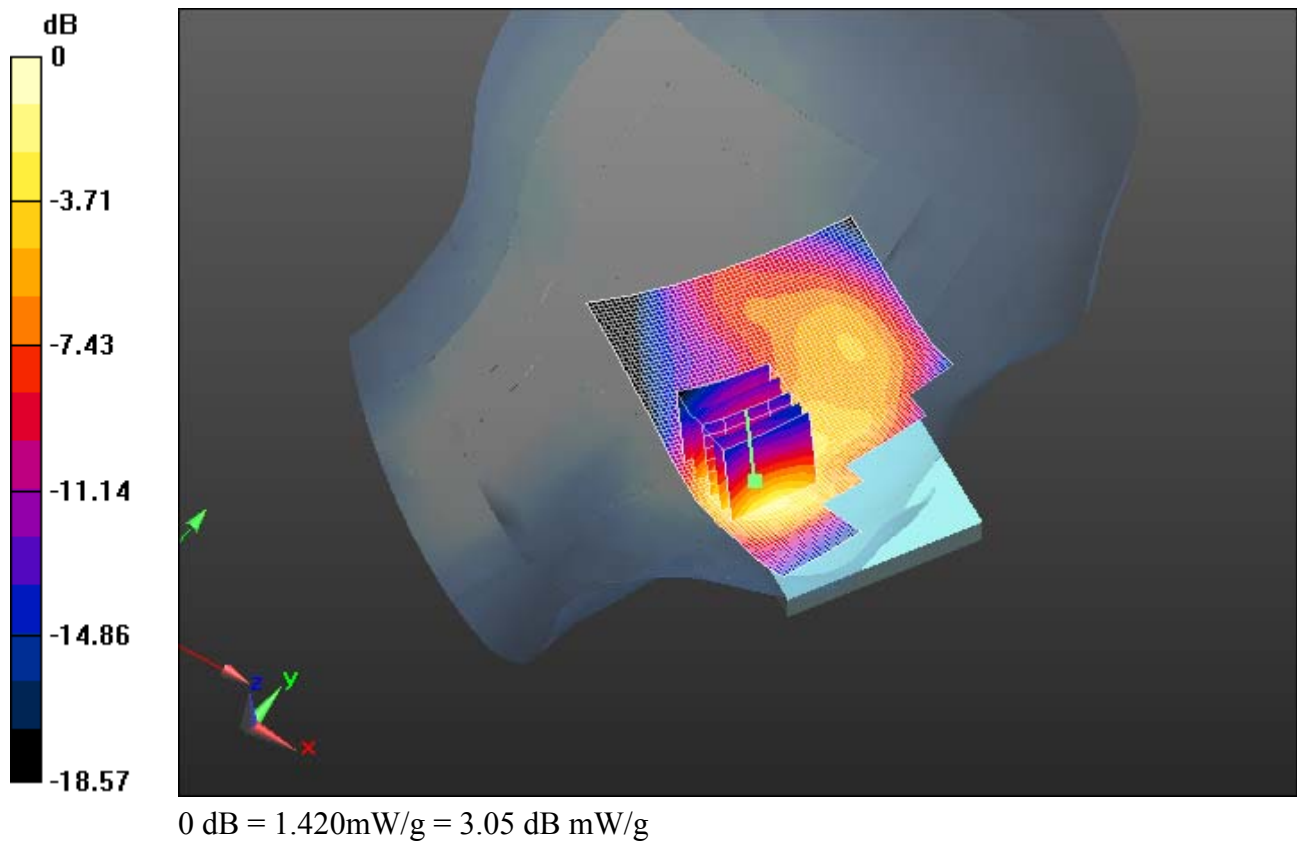
Reference Value = 13.781 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.9960

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.645 mW/g

Maximum value of SAR (measured) = 1.418 mW/g

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Date/Time: 12/4/2012 6:02:20 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_4_high_chan_QPSK_RB_1_Offset_99_amb_temp_2
3.6_liq_temp_21.7C_2nd_scan**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1800_Band 4; Communication System Band: LTE 1800_Band 4; Frequency: 1745 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.391 \text{ mho/m}$; $\epsilon_r = 40.478$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 1.443 mW/g

Configuration/Touch position - 2/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

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

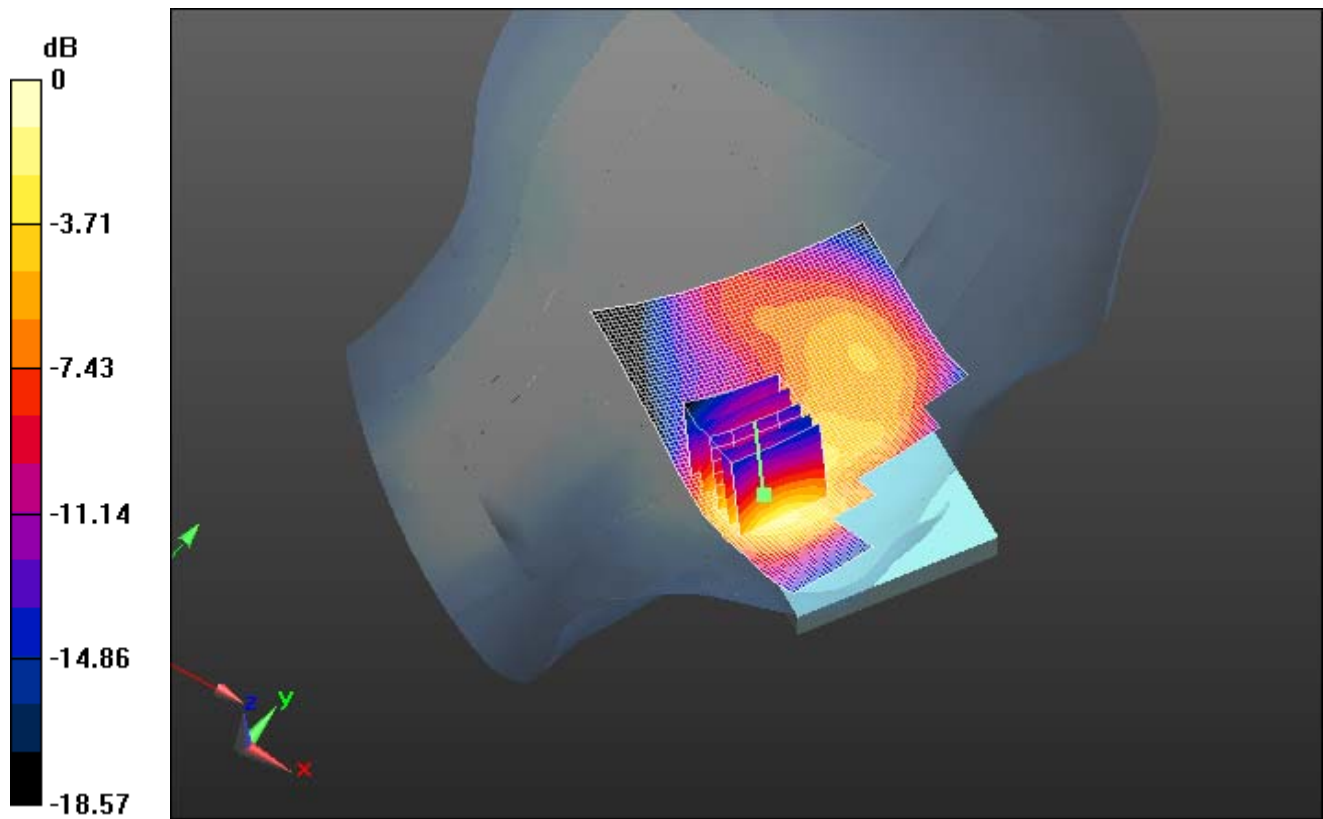
Reference Value = 14.031 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.6780

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.589 mW/g

Maximum value of SAR (measured) = 1.264 mW/g

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0 dB = 1.260mW/g = 2.01 dB mW/g

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Date/Time: 1/31/2013 7:21:19 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_4_low_chan_QPSK_RB_50_Offset_0_amb_temp_23
.4_liq_temp_21.6C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2668C71D

Communication System: LTE 4; Frequency: 1720 MHz

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.392$ S/m; $\epsilon_r = 38.642$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.21, 5.21, 5.21); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Touch position -/Area Scan (61x41x1): Interpolated grid:

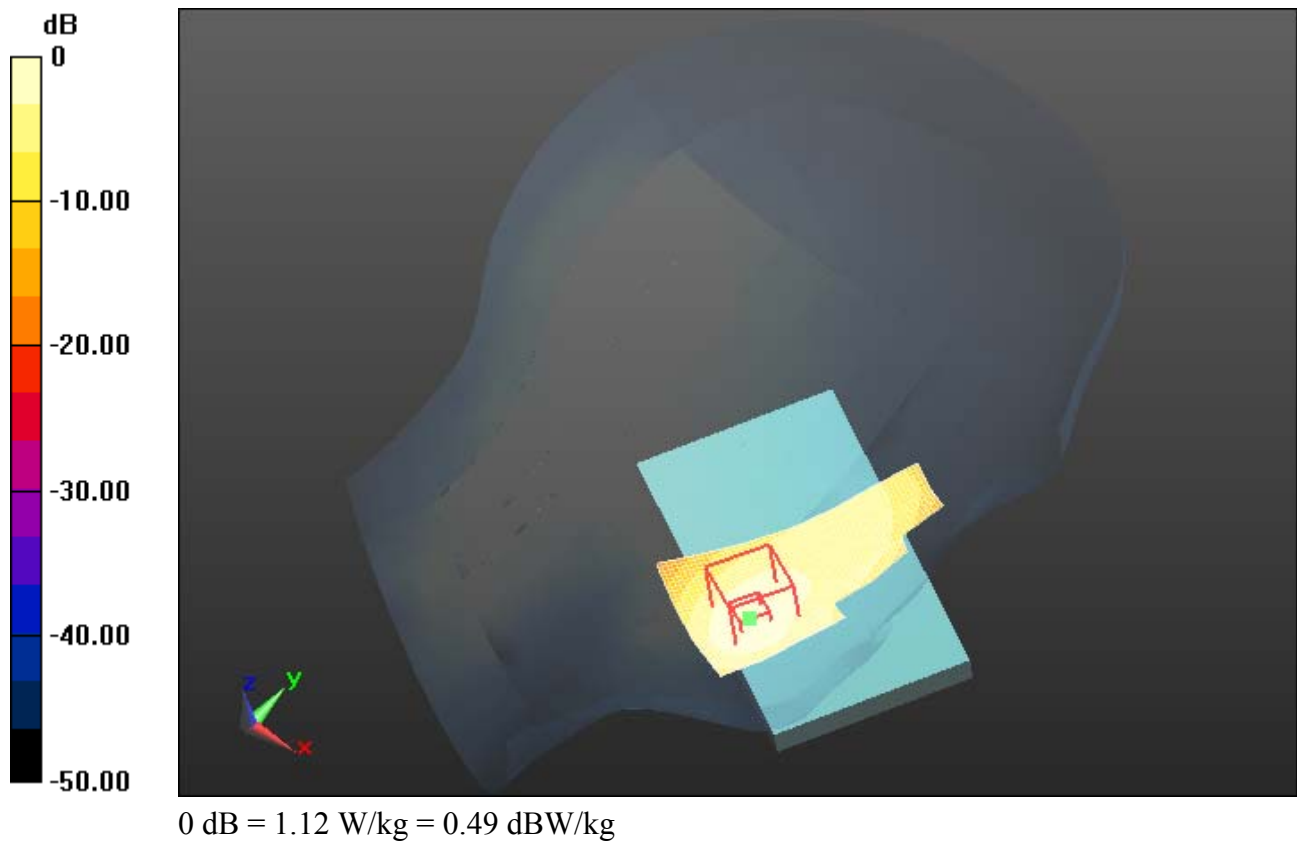
$dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 10.209 V/m; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 0.981 W/kg; SAR(10 g) = 0.553 W/kg

Maximum value of SAR (interpolated) = 1.12 W/kg

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Date/Time: 1/31/2013 7:50:39 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_4_mid_chan_QPSK_RB_50_Offset_50_amb_temp_2
3.4_liq_temp_21.6C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2668C71D

Communication System: LTE 4; Frequency: 1732.5 MHz

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.405$ S/m; $\epsilon_r = 38.569$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.21, 5.21, 5.21); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Touch position -/Area Scan (61x41x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

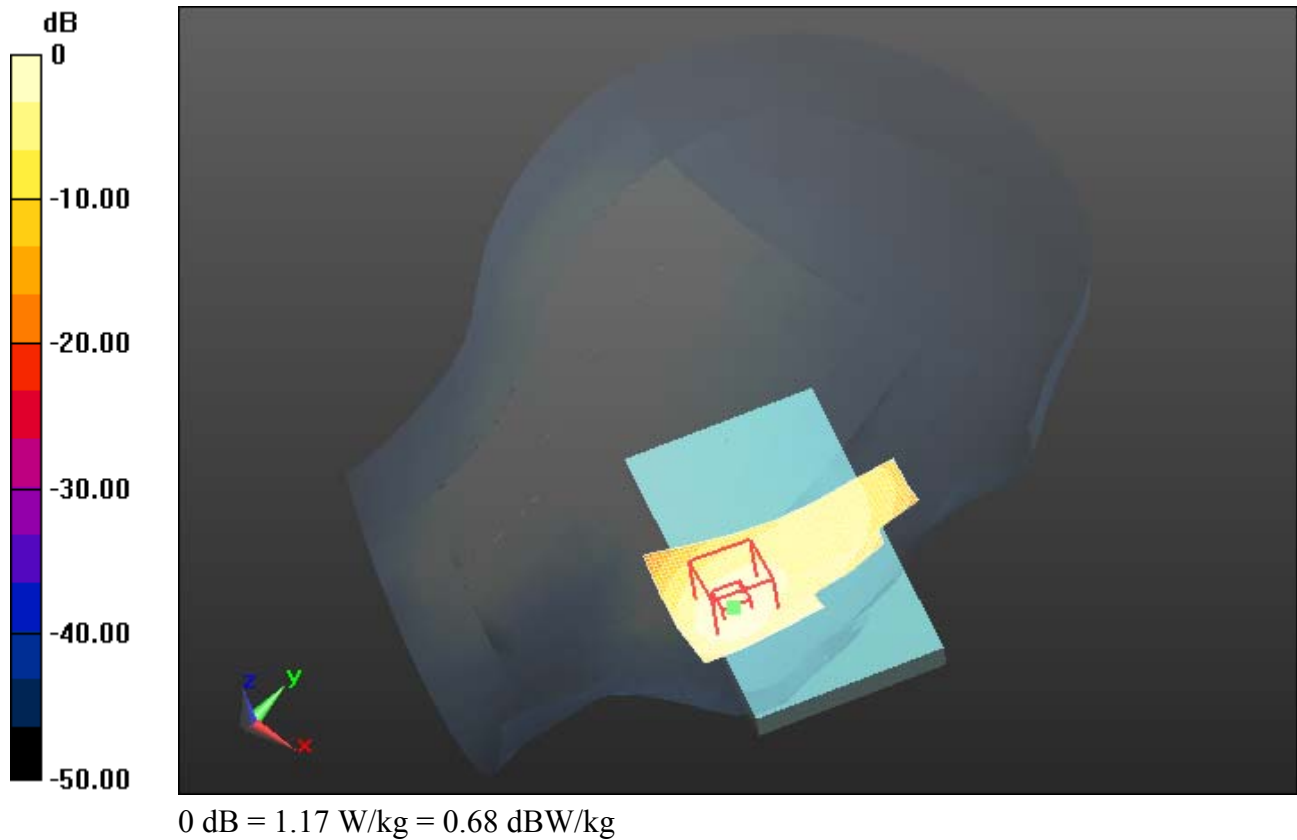
Reference Value = 10.614 V/m; Power Drift = 0.07 dB

Fast SAR: SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.564 W/kg

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

Maximum value of SAR (interpolated) = 1.17 W/kg

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Date/Time: 1/31/2013 7:32:42 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_4_high_chan_QPSK_RB_50_Offset_0_amb_temp_2
3.4_liq_temp_21.6C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 2668C71D

Communication System: LTE 4; Frequency: 1745 MHz

Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.415 \text{ S/m}$; $\epsilon_r = 38.513$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.21, 5.21, 5.21); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Touch position -/Area Scan (61x41x1): Interpolated grid:

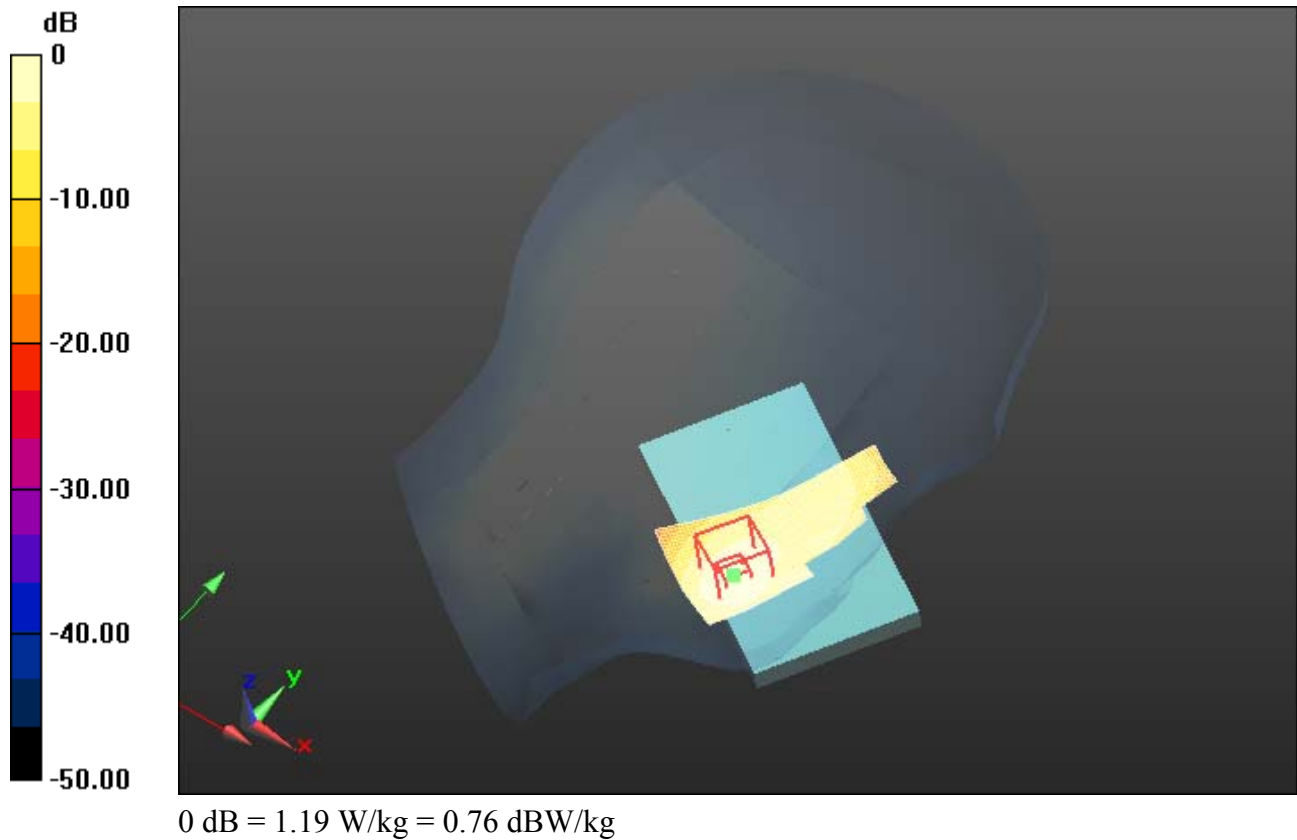
$dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 10.965 V/m; Power Drift = -0.07 dB

Fast SAR: SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.579 W/kg

Maximum value of SAR (interpolated) = 1.19 W/kg

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Date/Time: 12/4/2012 6:46:35 PM

Test Laboratory: RIM Testing Services

LeftHandside_LTE_4_high_chan_QPSK_RB_100_Offset_0_amb_temp_24.0_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1800_Band 4; Frequency: 1745 MHz

Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.376 \text{ mho/m}$; $\epsilon_r = 38.905$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

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

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

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

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

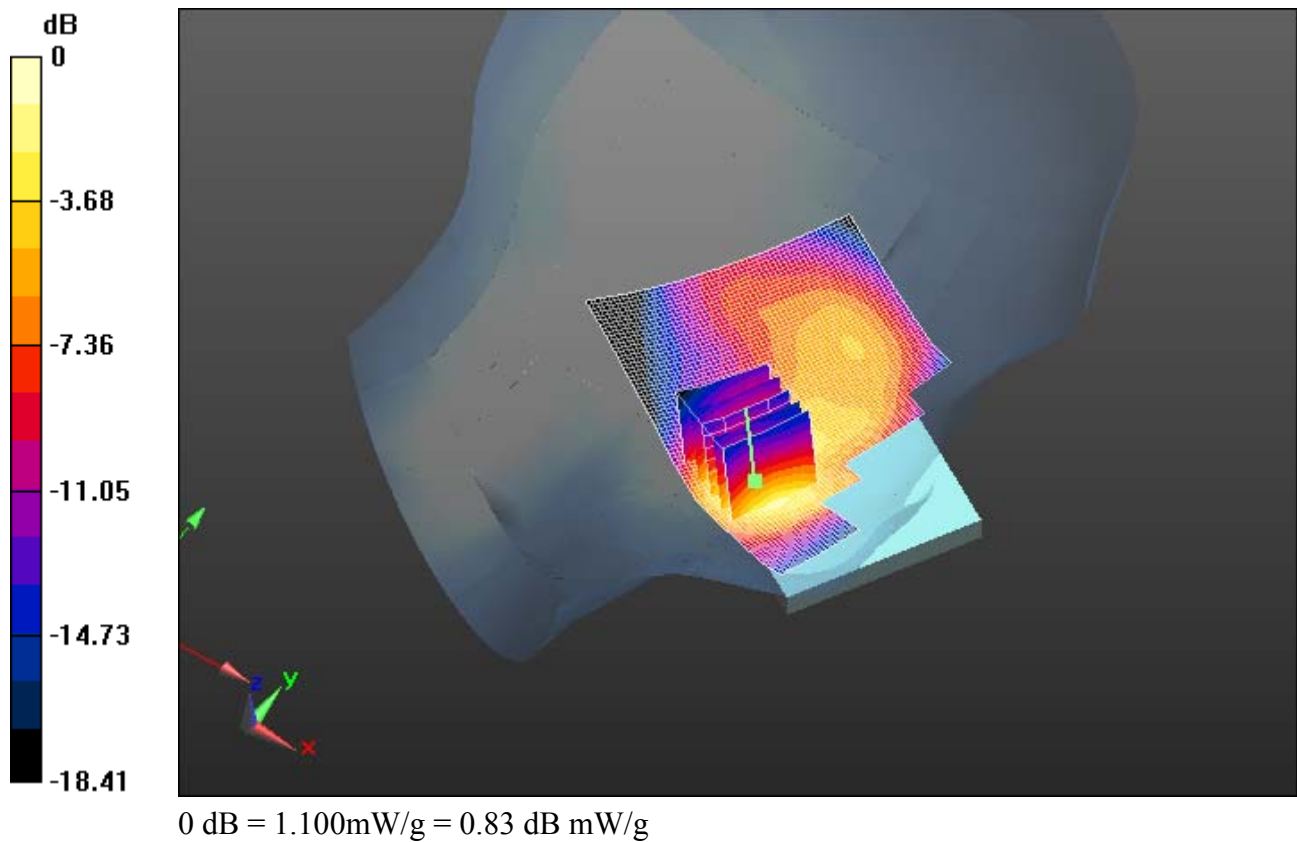
Reference Value = 11.368 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.5140

SAR(1 g) = 0.885 mW/g; SAR(10 g) = 0.493 mW/g

Maximum value of SAR (measured) = 1.096 mW/g

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Date/Time: 12/4/2012 9:01:47 PM

Test Laboratory: RIM Testing Services

**LeftHandside_Tilt_LTE_4_high_chan_QPSK_RB_1_Offset_99_amb_tem
p_23.8_liq_temp_22.1C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1800_Band 4; Frequency: 1745 MHz

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.376$ mho/m; $\epsilon_r = 38.905$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Tilt position -/Area Scan (61x101x1): Measurement grid:

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

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

Configuration/Tilt position -/Zoom Scan (5x5x7) (6x7x7)/Cube 0:

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

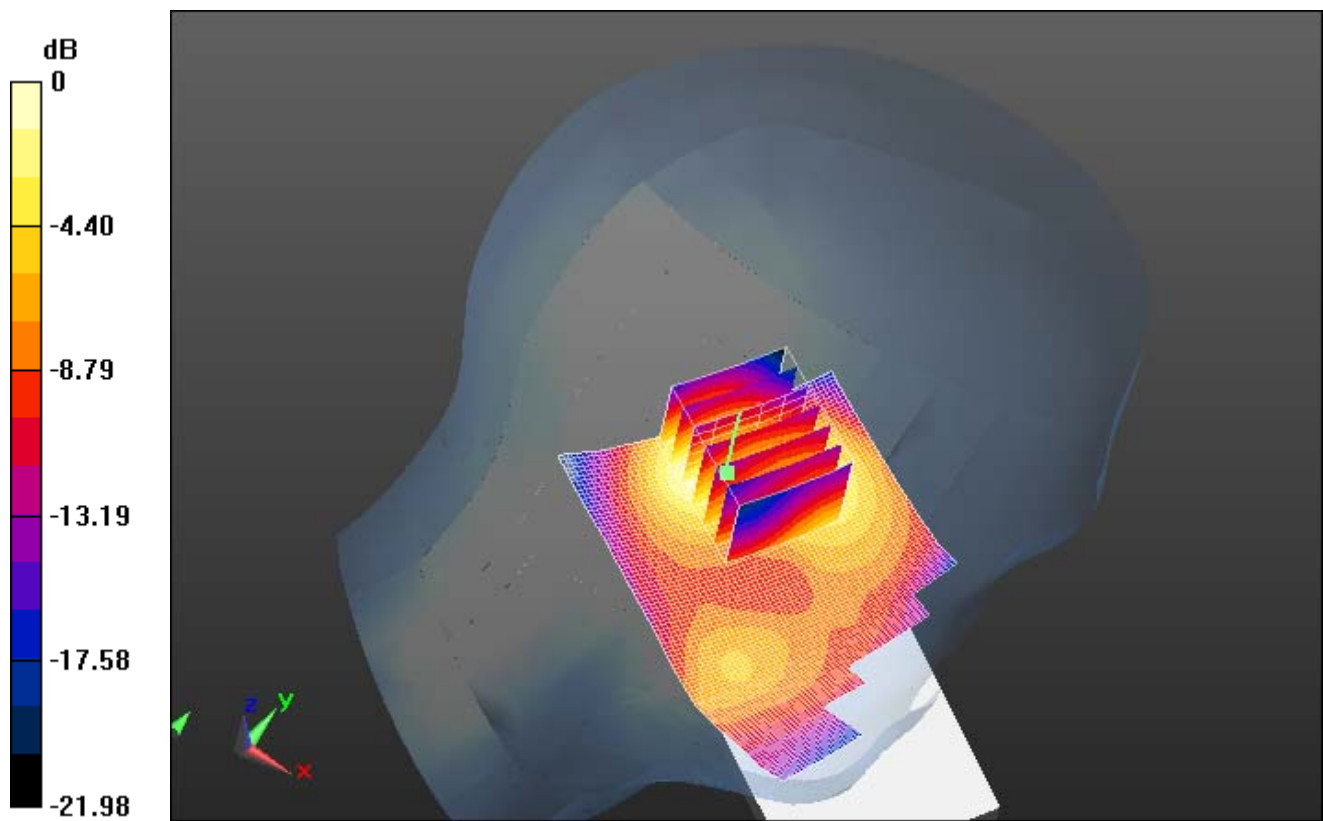
Reference Value = 22.341 V/m; Power Drift = -0.0018 dB

Peak SAR (extrapolated) = 0.9290

SAR(1 g) = 0.580 mW/g; SAR(10 g) = 0.336 mW/g

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

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0 dB = 0.690mW/g = -3.22 dB mW/g

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Date/Time: 12/4/2012 6:02:20 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_4_high_chan_QPSK_RB_1_Offset_99_amb_temp_2
3.6_liq_temp_21.7C_21mA_batt**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1800_Band 4; Communication System Band: LTE 1800_Band 4; Frequency: 1745 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.391 \text{ mho/m}$; $\epsilon_r = 40.478$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x91x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 1.443 mW/g

Configuration/LeftHandside_LTE_4_high_chan_QPSK_RB_1_Offset_99_amb_temp_23.6_liq_temp_21.7C_2100mA_batt/Zoom Scan (5x5x7)

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

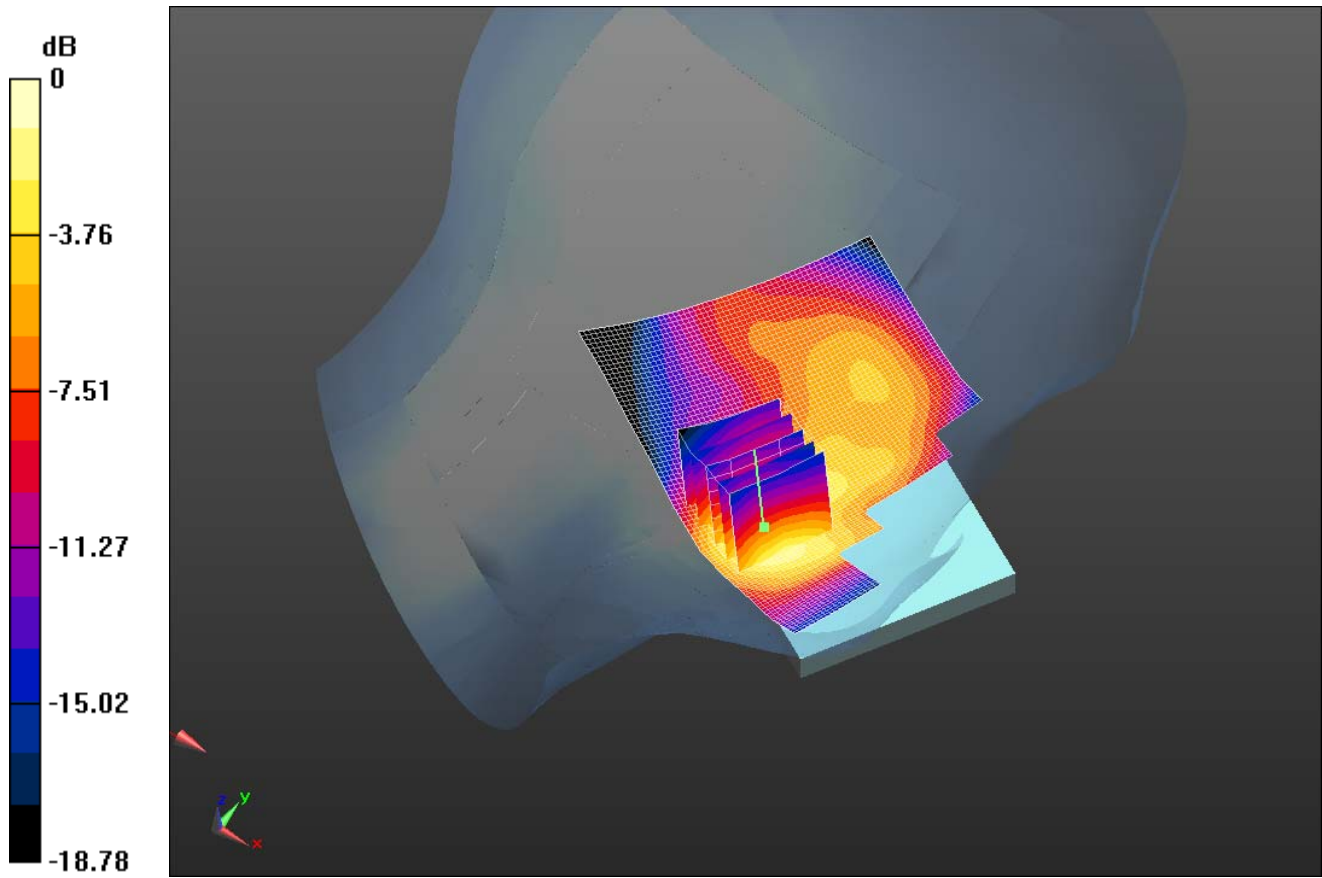
Reference Value = 13.911 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.9820

SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.630 mW/g

Maximum value of SAR (measured) = 1.422 mW/g

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0 dB = 1.420mW/g = 3.05 dB mW/g

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LTE 2

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Date/Time: 12/3/2012 9:43:05 PM

Test Laboratory: RIM Testing Services

**RightHandside_LTE_2_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23
.8_liq_temp_21.9C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1900_Band 2; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 40.971$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.603 mW/g

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

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

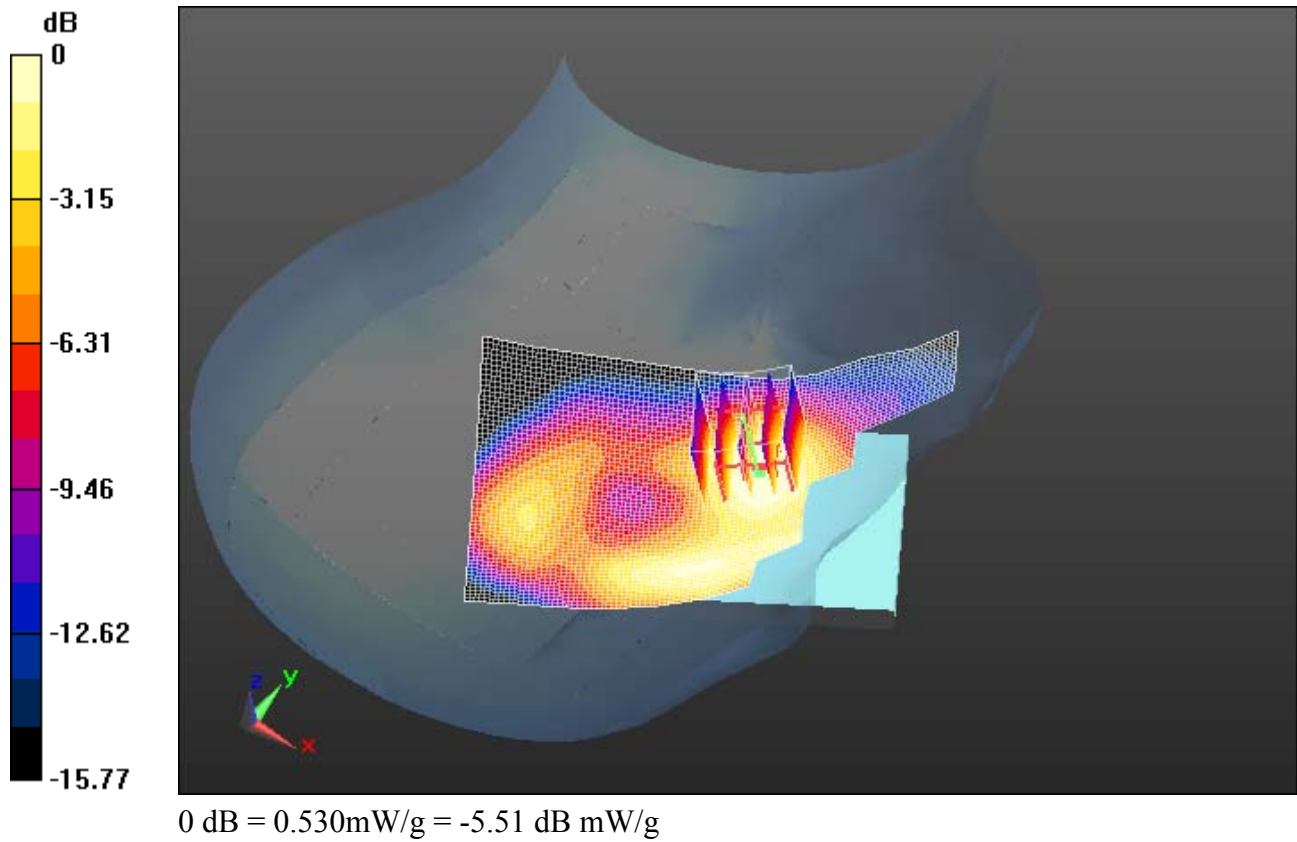
Reference Value = 12.800 V/m; Power Drift = 0.36 dB

Peak SAR (extrapolated) = 0.6800

SAR(1 g) = 0.471 mW/g; SAR(10 g) = 0.300 mW/g

Maximum value of SAR (measured) = 0.534 mW/g

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Date/Time: 12/3/2012 10:11:59 PM

Test Laboratory: RIM Testing Services

**RightHandside_LTE_2_mid_chan_QPSK_RB_1_Offset_99_amb_temp_2
3.8_liq_temp_21.8C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1900_Band 2; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 40.971$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.611 mW/g

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

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

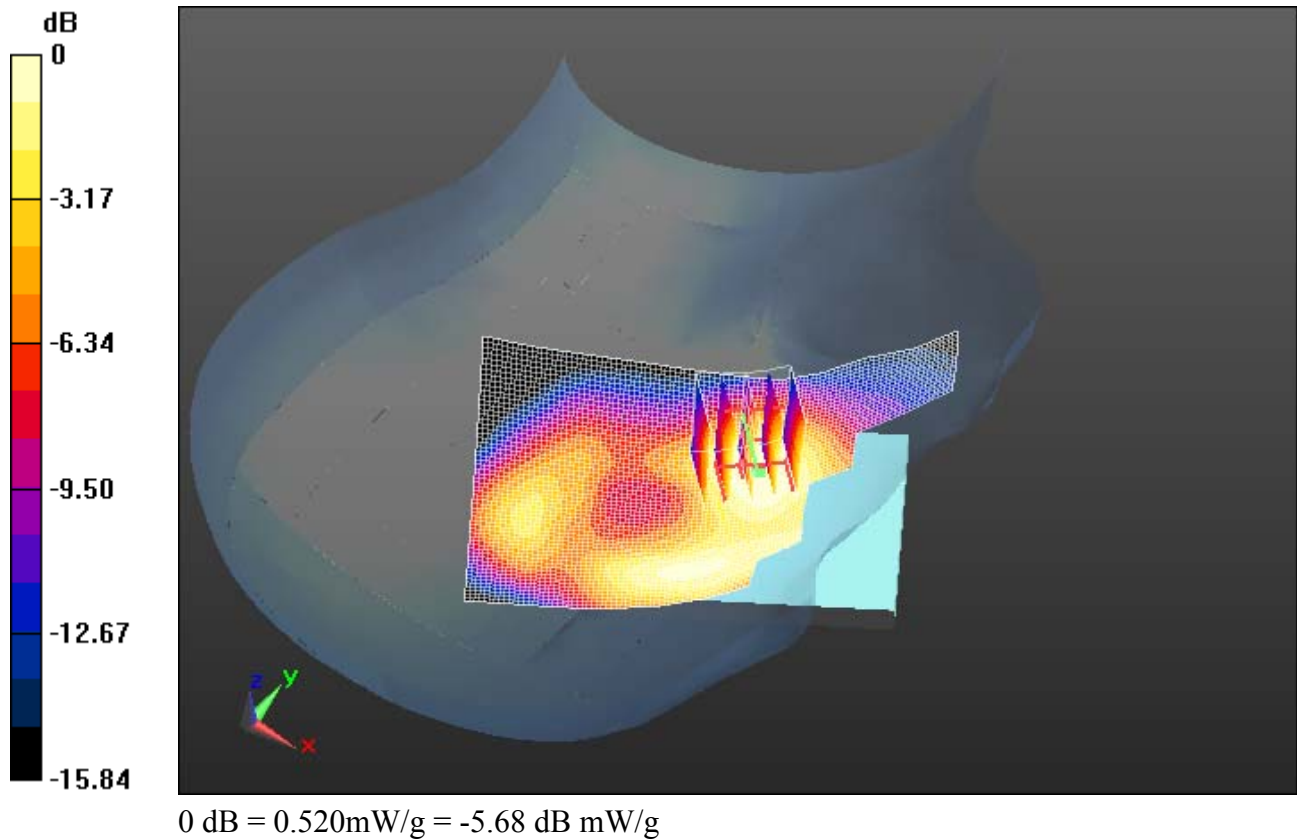
Reference Value = 13.359 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.6820

SAR(1 g) = 0.464 mW/g; SAR(10 g) = 0.293 mW/g

Maximum value of SAR (measured) = 0.525 mW/g

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Date/Time: 12/3/2012 10:49:14 PM

Test Laboratory: RIM Testing Services

**RightHandside_LTE_2_mid_chan_QPSK_RB_50_Offset_0_amb_temp_2
3.8_liq_temp_21.7C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1900_Band 2; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 40.971$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.463 mW/g

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

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

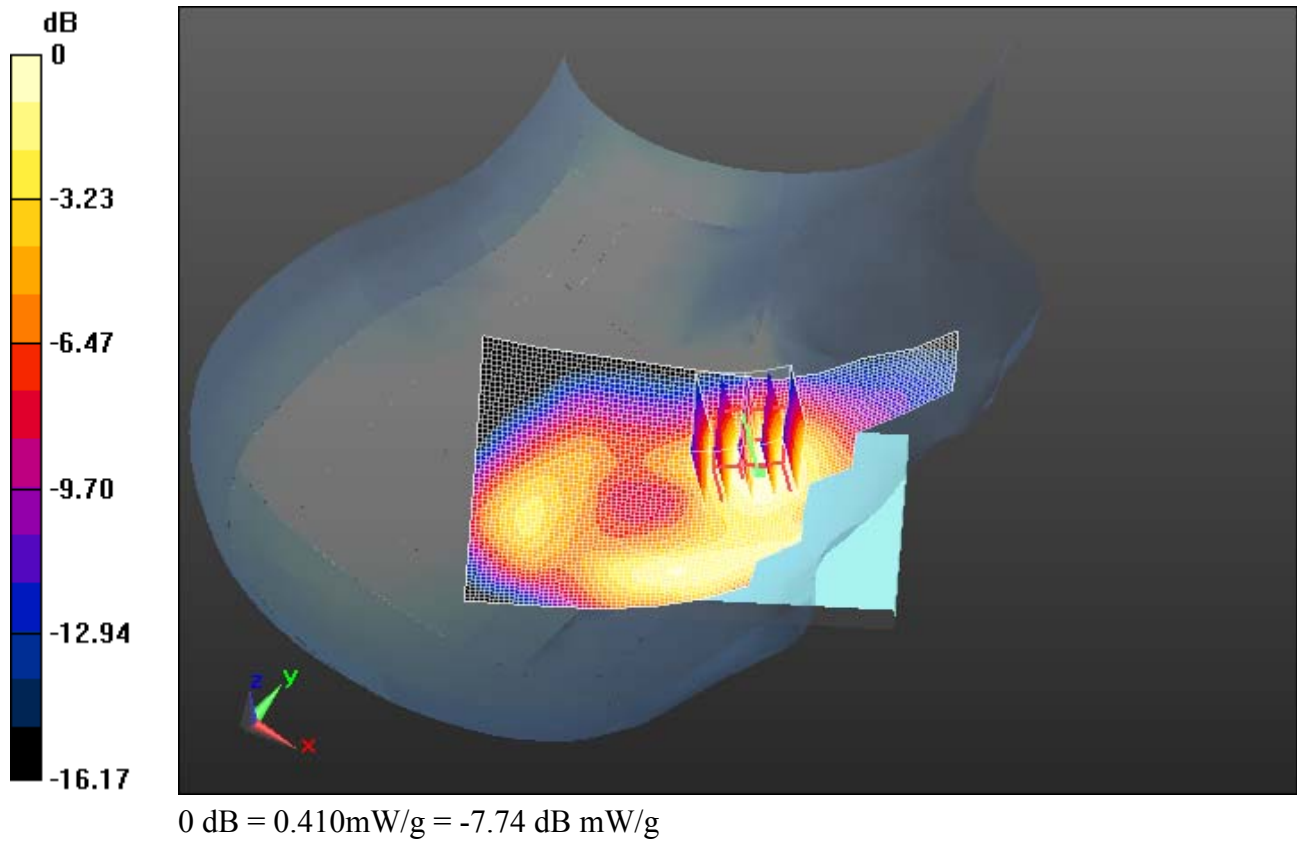
Reference Value = 11.847 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.5330

SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.230 mW/g

Maximum value of SAR (measured) = 0.414 mW/g

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Date/Time: 12/4/2012 12:00:48 AM

Test Laboratory: RIM Testing Services

**RightHandside_Tilt_LTE_2_mid_chan_QPSK_RB_1_Offset_0_amb_tem
p_23.9_liq_temp_21.9C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1900_Band 2; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.971$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.558 mW/g

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

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

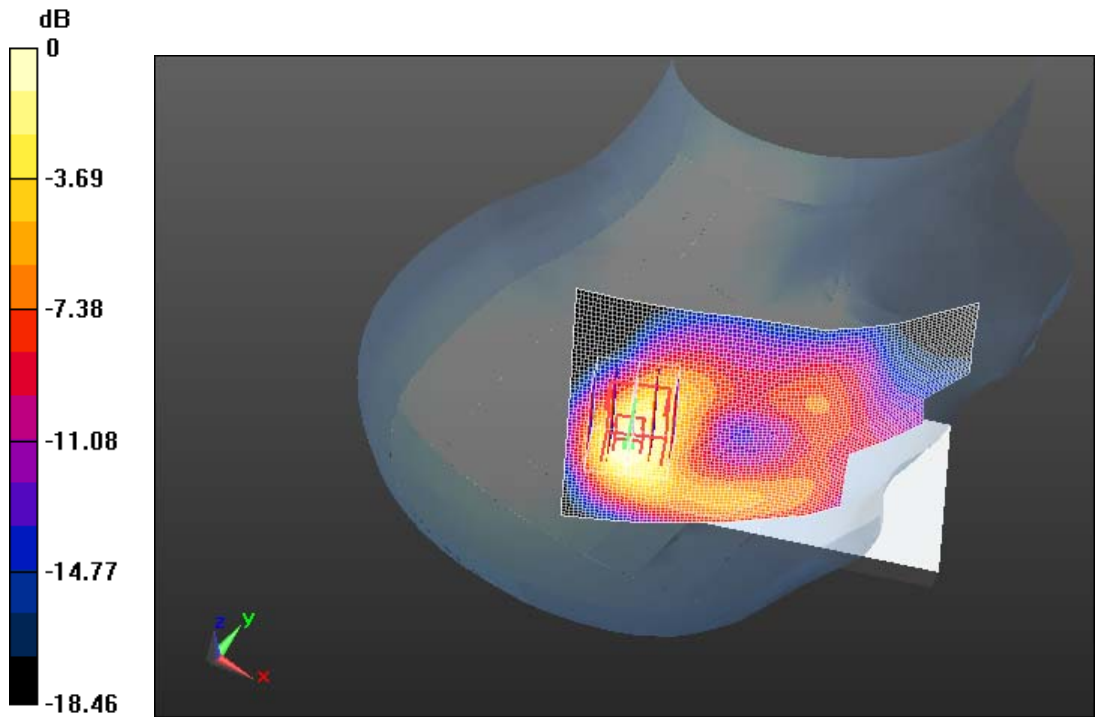
Reference Value = 17.262 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.7470

SAR(1 g) = 0.435 mW/g; SAR(10 g) = 0.235 mW/g

Maximum value of SAR (measured) = 0.539 mW/g

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0 dB = 0.540mW/g = -5.35 dB mW/g

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Date/Time: 12/3/2012 5:48:55 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_2_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.
5_liq_temp_22.8C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1900_Band 2; Frequency: 1880 MHz
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 40.971$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

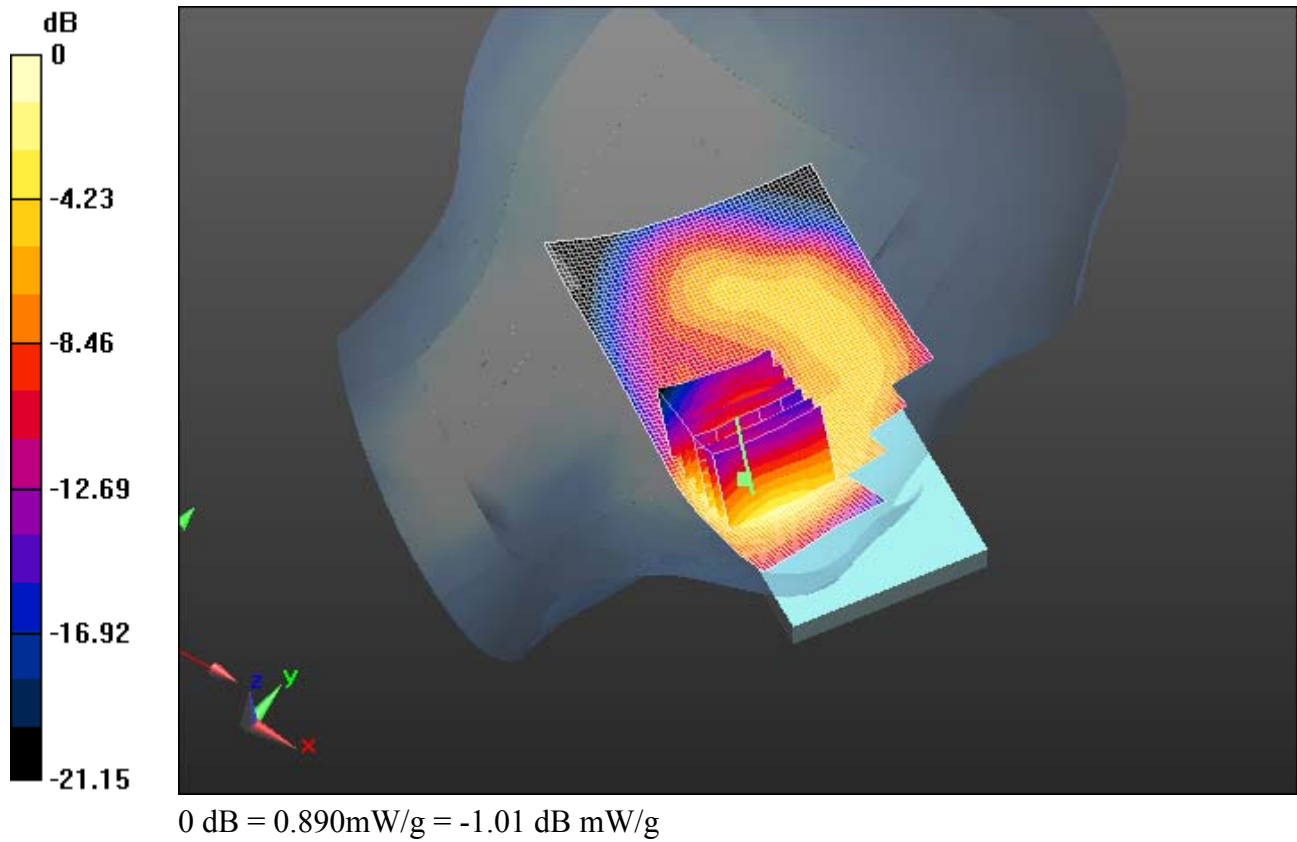
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 0.886 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 = 14.209 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.2200
SAR(1 g) = 0.738 mW/g; SAR(10 g) = 0.422 mW/g
Maximum value of SAR (measured) = 0.888 mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/3/2012 6:09:52 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_2_mid_chan_QPSK_RB_1_Offset_99_amb_temp_23
.6_liq_temp_22.7C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1900_Band 2; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 40.971$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.884 mW/g

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

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

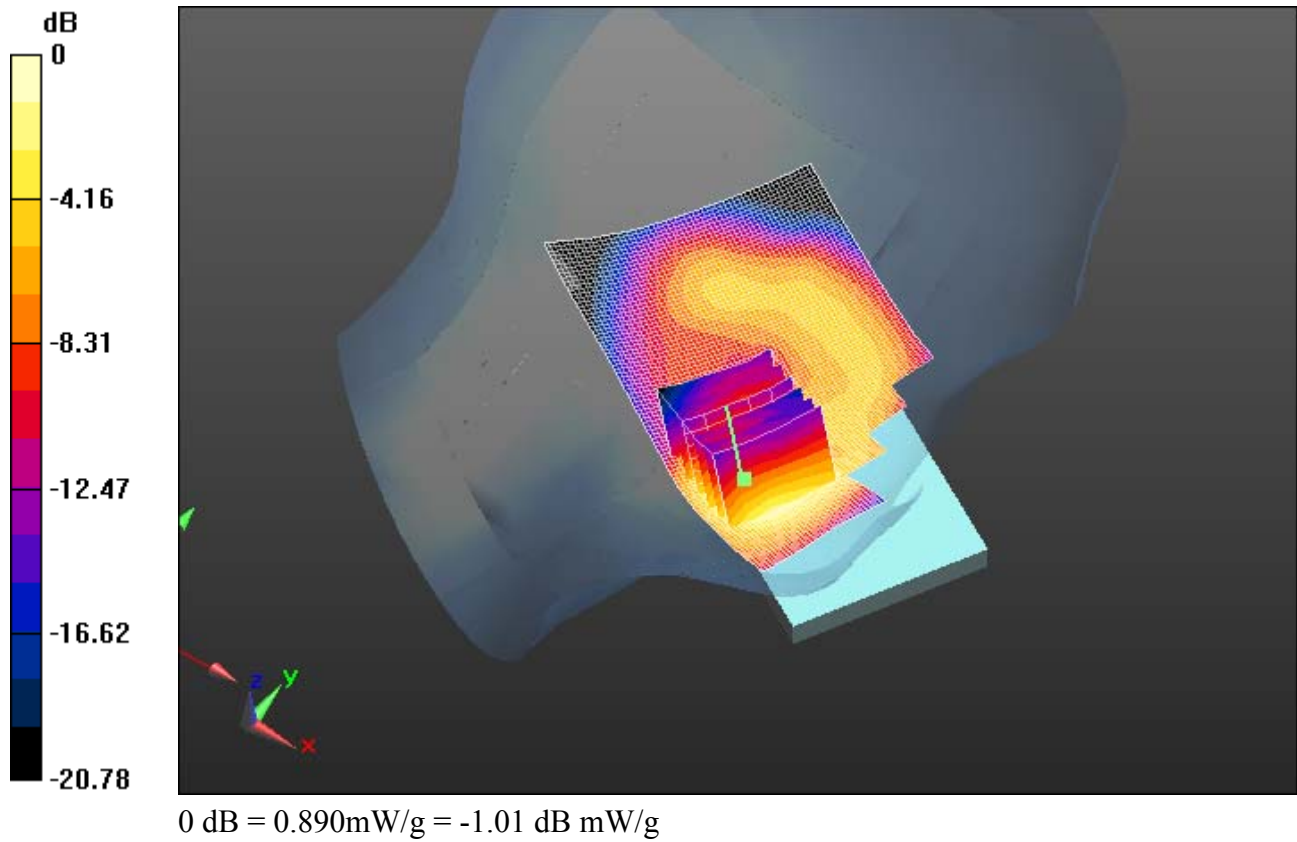
Reference Value = 14.603 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.2190

SAR(1 g) = 0.731 mW/g; SAR(10 g) = 0.414 mW/g

Maximum value of SAR (measured) = 0.885 mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW



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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/3/2012 7:30:51 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_2_mid_chan_QPSK_RB_50_Offset_0_amb_temp_23
.9_liq_temp_22.6C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1900_Band 2; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 40.971$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.732 mW/g

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

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

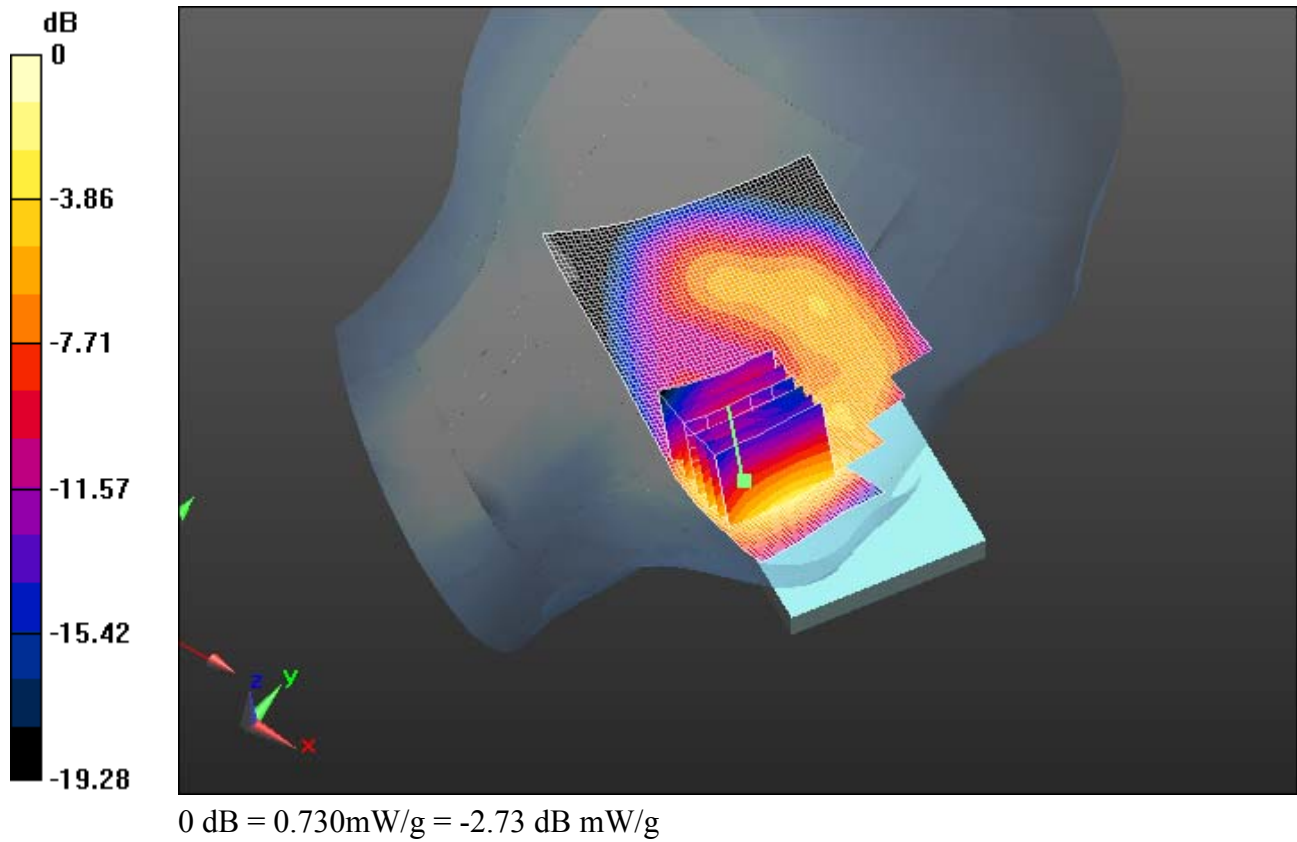
Reference Value = 11.665 V/m ; Power Drift = -0.0049 dB

Peak SAR (extrapolated) = 1.0230

SAR(1 g) = 0.593 mW/g ; SAR(10 g) = 0.331 mW/g

Maximum value of SAR (measured) = 0.728 mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/3/2012 8:54:17 PM

Test Laboratory: RIM Testing Services

**LeftHandside_Tilt_LTE_2_mid_chan_QPSK_RB_1_Offset_0_amb_temp
_24.1_liq_temp_22.9C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1900_Band 2; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 40.971$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Tilt position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.559 mW/g

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

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

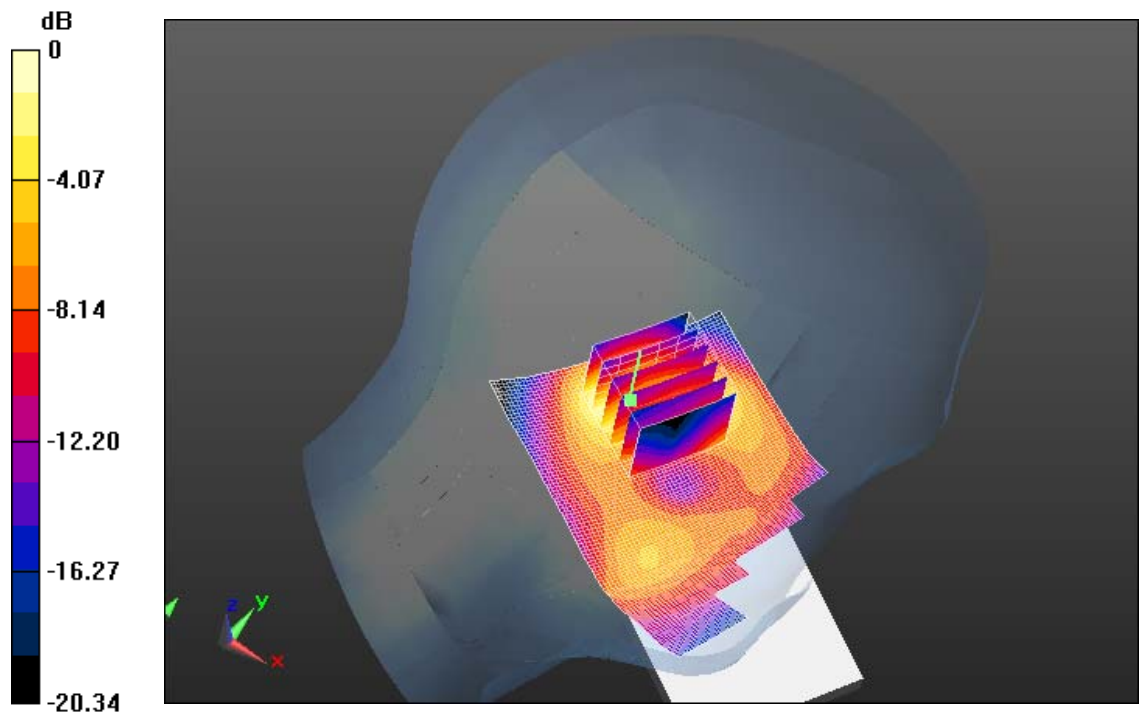
Reference Value = 19.600 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.6800

SAR(1 g) = 0.421 mW/g; SAR(10 g) = 0.232 mW/g

Maximum value of SAR (measured) = 0.508 mW/g

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0 dB = 0.510mW/g = -5.85 dB mW/g

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Date/Time: 12/4/2012 1:48:33 AM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_2_low_chan_QPSK_RB_1_Offset_0_amb_temp_24.
1_liq_temp_22.6C_2100**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1900_Band 2; Frequency: 1860 MHz

Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.363 \text{ mho/m}$; $\epsilon_r = 41.115$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 1.110 mW/g

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

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

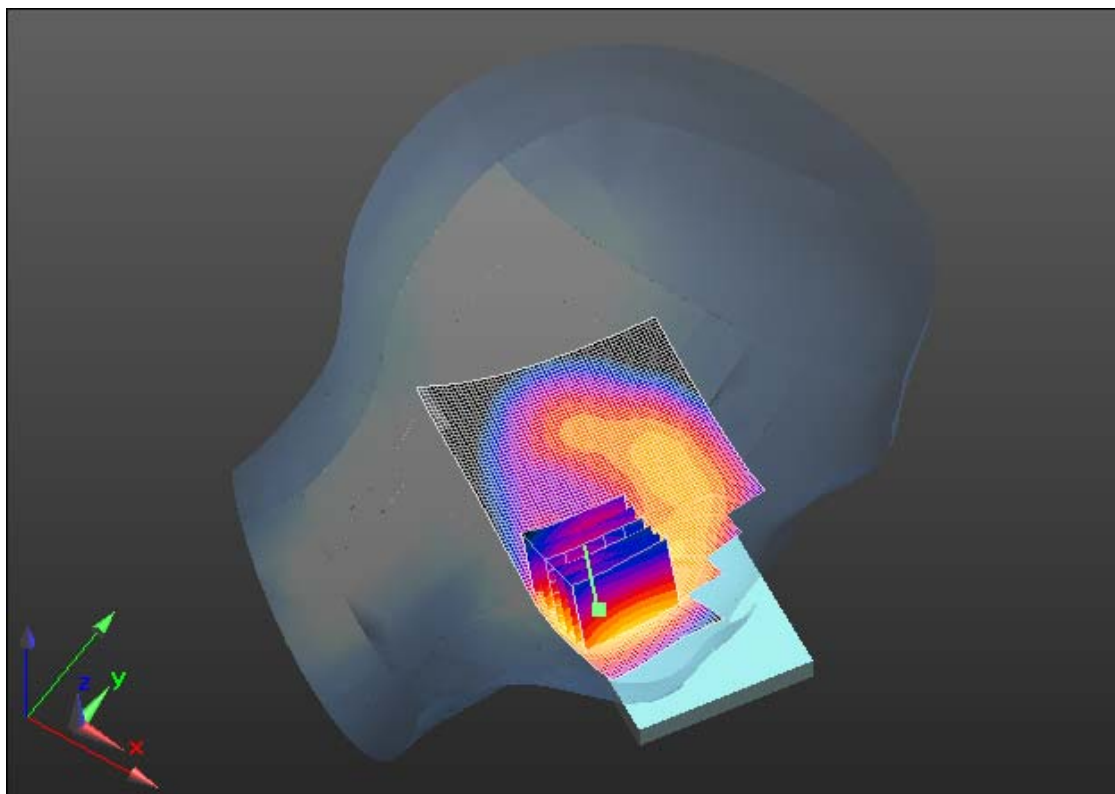
Reference Value = 13.259 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.4920

SAR(1 g) = 0.879 mW/g; SAR(10 g) = 0.492 mW/g

Maximum value of SAR (measured) = 1.085 mW/g

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0 dB = 1.090mW/g = 0.75 dB mW/g

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Date/Time: 12/4/2012 1:28:47 AM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_2_mid_chan_QPSK_RB_1_Offset_0_amb_temp_24.
0_liq_temp_22.6C_2100**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1900_Band 2; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.38 \text{ mho/m}$; $\epsilon_r = 40.971$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 1.038 mW/g

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

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

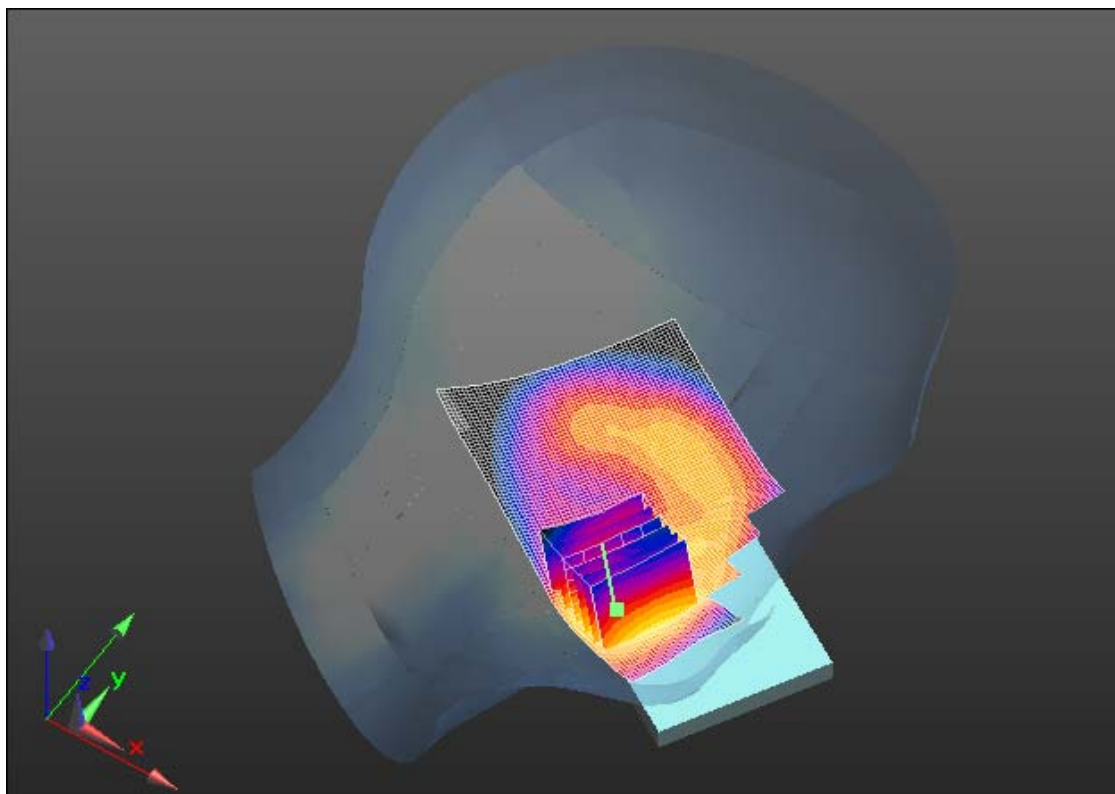
Reference Value = 13.630 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.4550

SAR(1 g) = 0.858 mW/g; SAR(10 g) = 0.474 mW/g

Maximum value of SAR (measured) = 1.072 mW/g

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0 dB = 1.070mW/g = 0.59 dB mW/g

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Date/Time: 12/4/2012 2:09:40 AM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_2_high_chan_QPSK_RB_1_Offset_0_amb_temp_24.
1_liq_temp_22.6C_2100**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1900_Band 2; Frequency: 1900 MHz
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.398$ mho/m; $\epsilon_r = 40.853$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

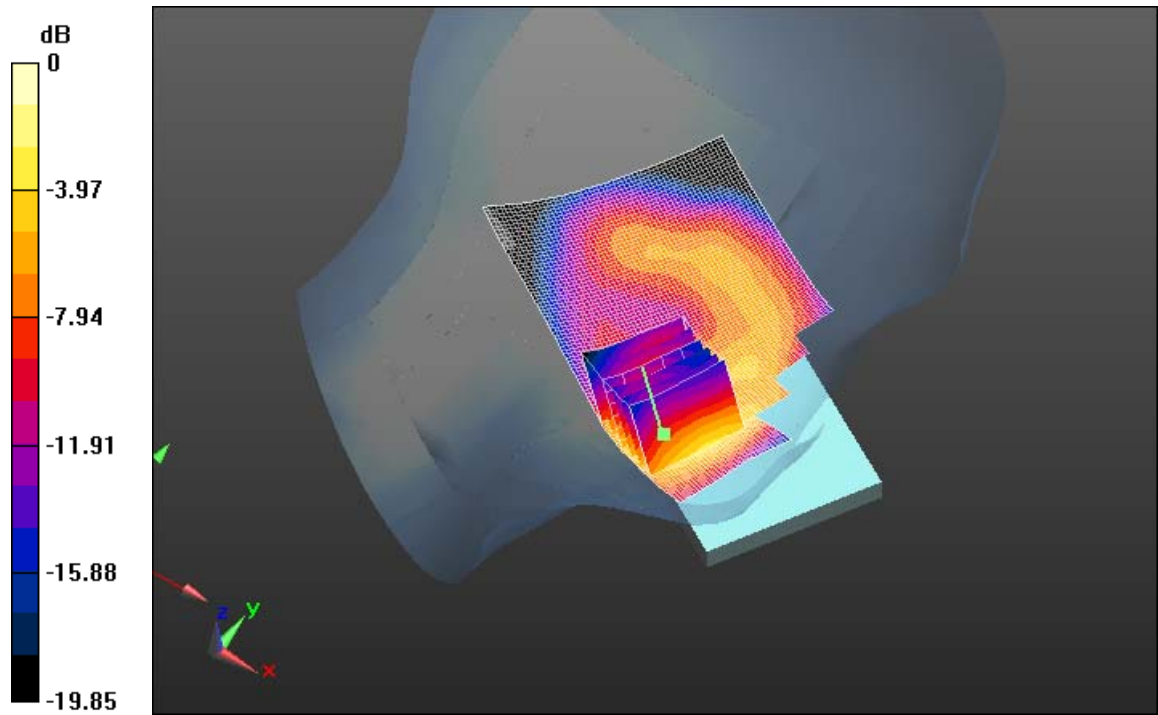
DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.099 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 = 13.406 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.5460
SAR(1 g) = 0.896 mW/g; SAR(10 g) = 0.488 mW/g
Maximum value of SAR (measured) = 1.099 mW/g

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$$0 \text{ dB} = 1.100\text{mW/g} = 0.83 \text{ dB mW/g}$$

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Date/Time: 12/4/2012 2:39:49 AM

Test Laboratory: RIM Testing Services

LeftHandside_LTE_2_high_chan_2nd

Scan_QPSK_RB_1_Offset_0_amb_temp_24.1_liq_temp_22.6C_2100

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE 1900_Band 2; Communication System Band: LTE 1900_Band 2; Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 40.853$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012;
 - o Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.8(7028)

Configuration/Touch position -/Area Scan (61x101x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.13 W/kg

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

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

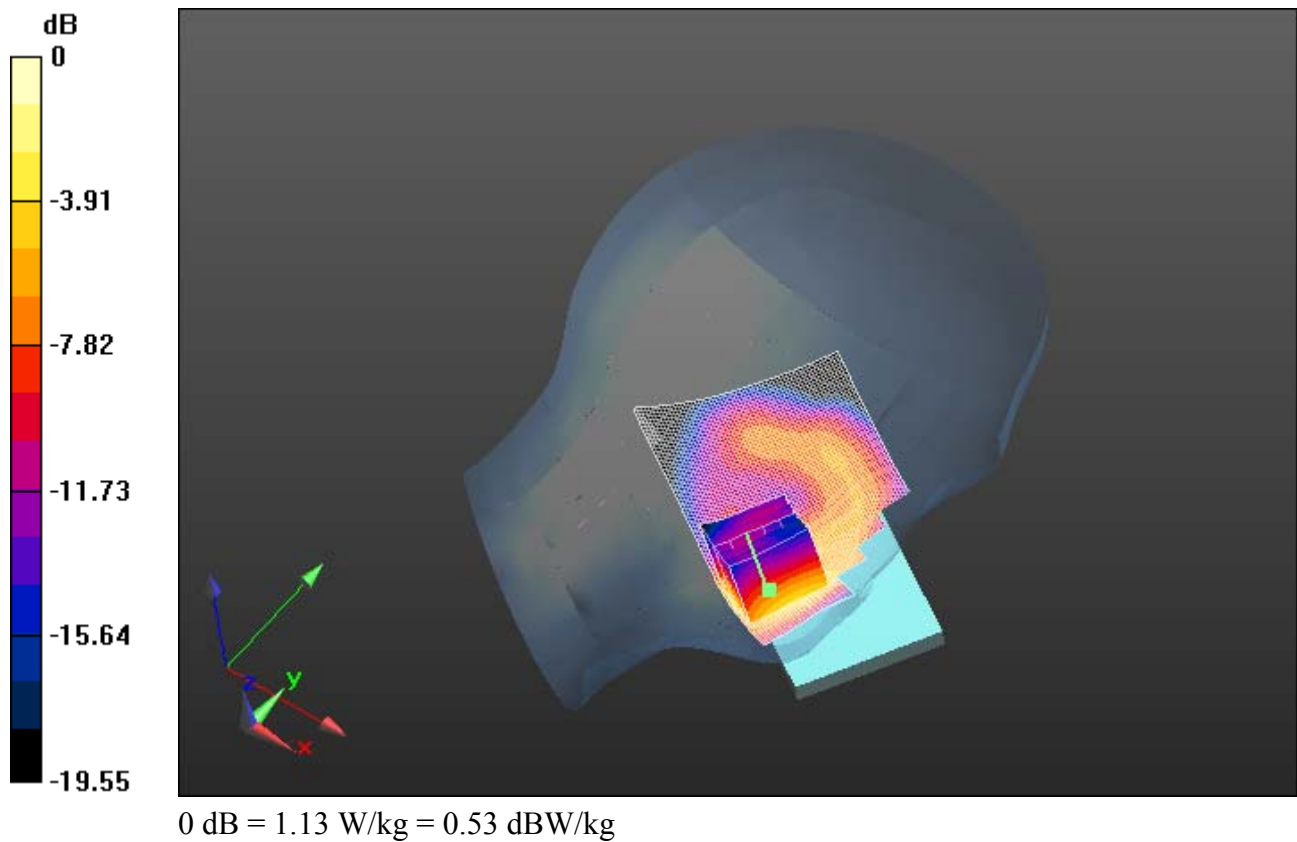
Reference Value = 13.440 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.919 W/kg; SAR(10 g) = 0.505 W/kg

Maximum value of SAR (measured) = 1.13 W/kg

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 1/29/2013 8:32:43 PM

Test Laboratory: RIM Testing Services

**LeftHandside_LTE_2_mid_chan_2100mA_Batt_QPSK_RB_50_Offset_0
_amb_temp_23.1_liq_temp_21.5C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE band 2; Communication System Band: LTE band 2;
Frequency: 1880 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.359 \text{ S/m}$; $\epsilon_r = 38.393$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

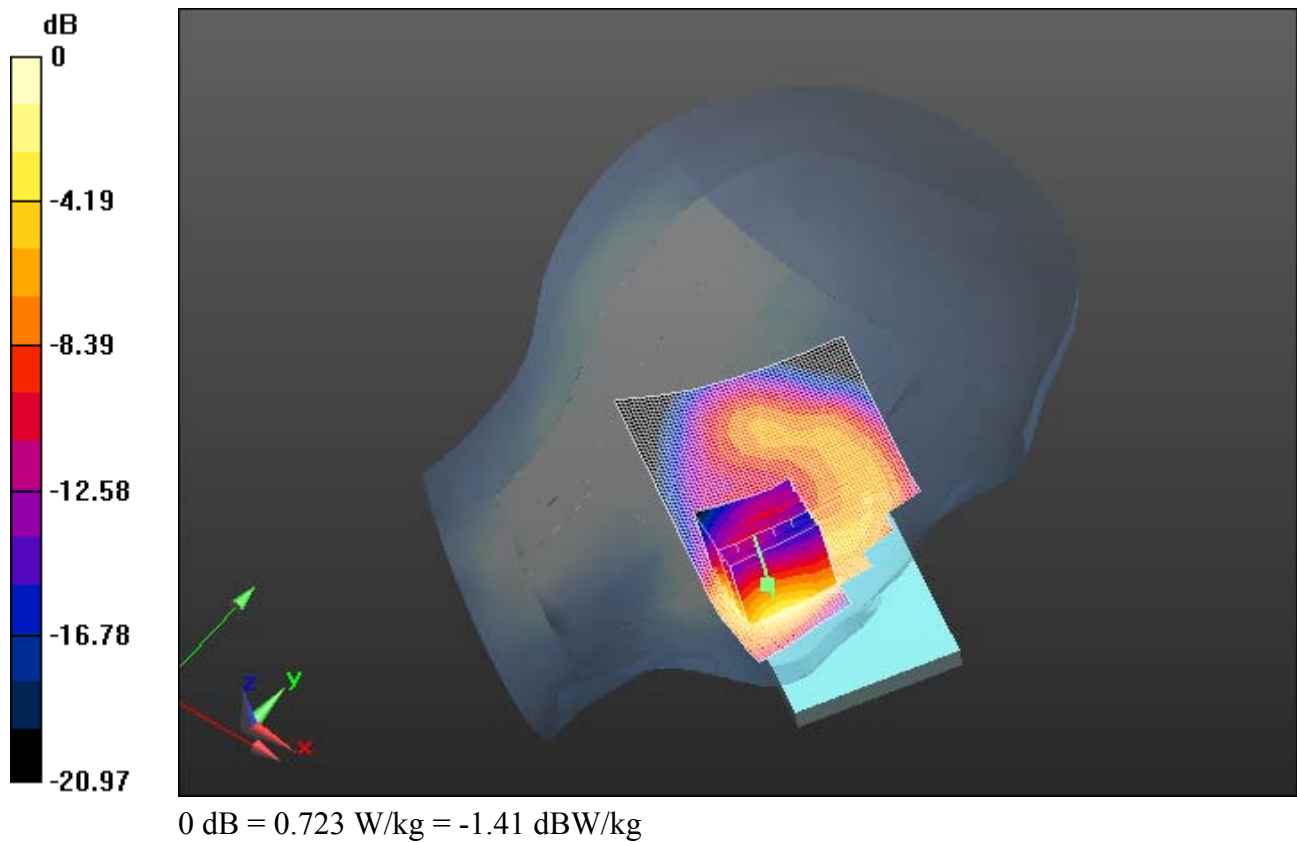
DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.21, 5.21, 5.21); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Touch position -/Area Scan (61x101x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.697 W/kg

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 = 11.392 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.11 W/kg
SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.355 W/kg
Maximum value of SAR (measured) = 0.723 W/kg

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Date/Time: 1/29/2013 9:16:00 PM

Test Laboratory: RIM Testing Services

LeftHandside_LTE_2_low_chan_2100mA_Batt_QPSK_RB_100_Offset_0_amb_temp_23.1_liq_temp_21.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: LTE band 2; Communication System Band: LTE band 2;
Frequency: 1860 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005
Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.34 \text{ S/m}$; $\epsilon_r = 38.49$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

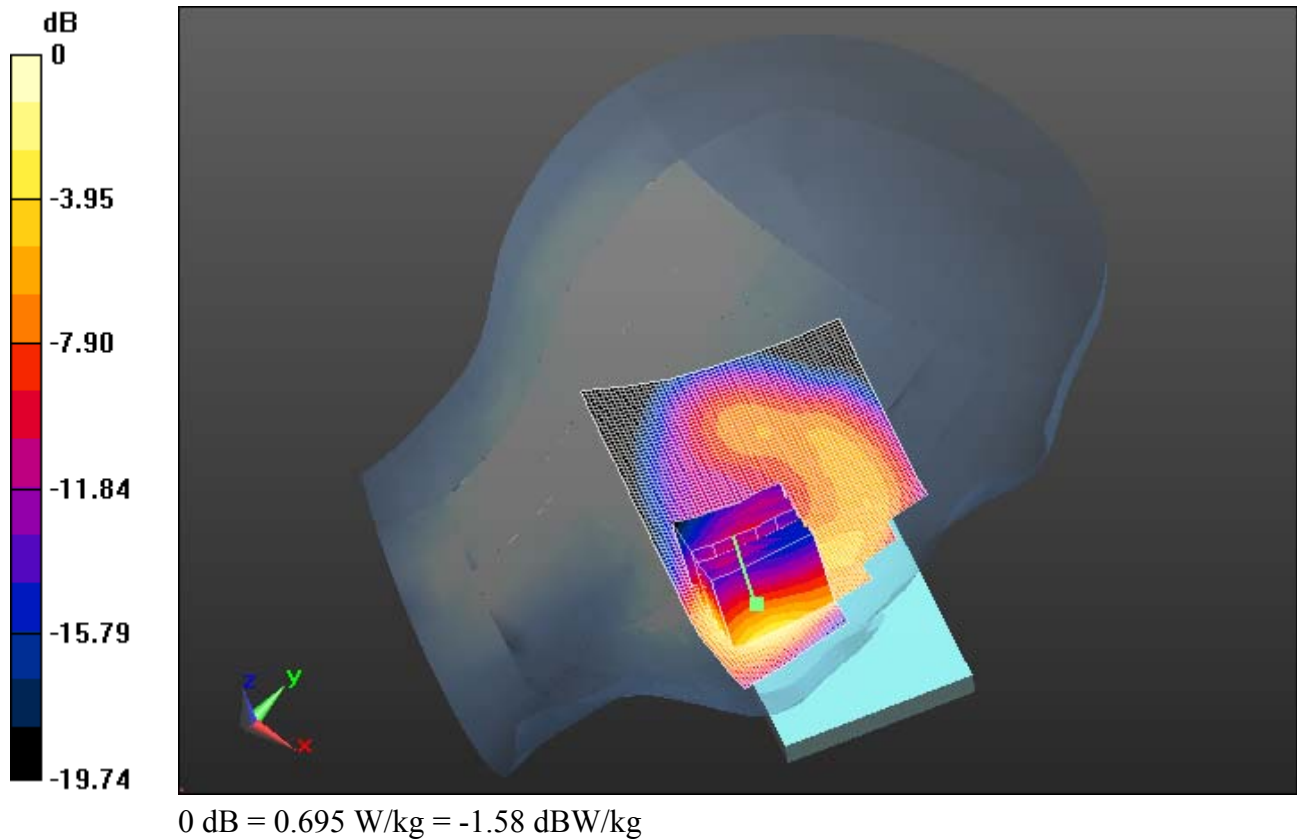
DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.21, 5.21, 5.21); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Touch position -/Area Scan (61x101x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.683 W/kg

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 = 11.471 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.628 W/kg; SAR(10 g) = 0.349 W/kg
Maximum value of SAR (measured) = 0.695 W/kg

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EDGE 1900

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Date/Time: 11/26/2012 6:26:22 PM

Test Laboratory: RIM Testing Services

**RightHandSide_DTM/EDGE1900_mid_chan_amb_temp_23.8C_liq_tem
p_21.6C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.354 \text{ mho/m}$; $\epsilon_r = 39.055$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.615 mW/g

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

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

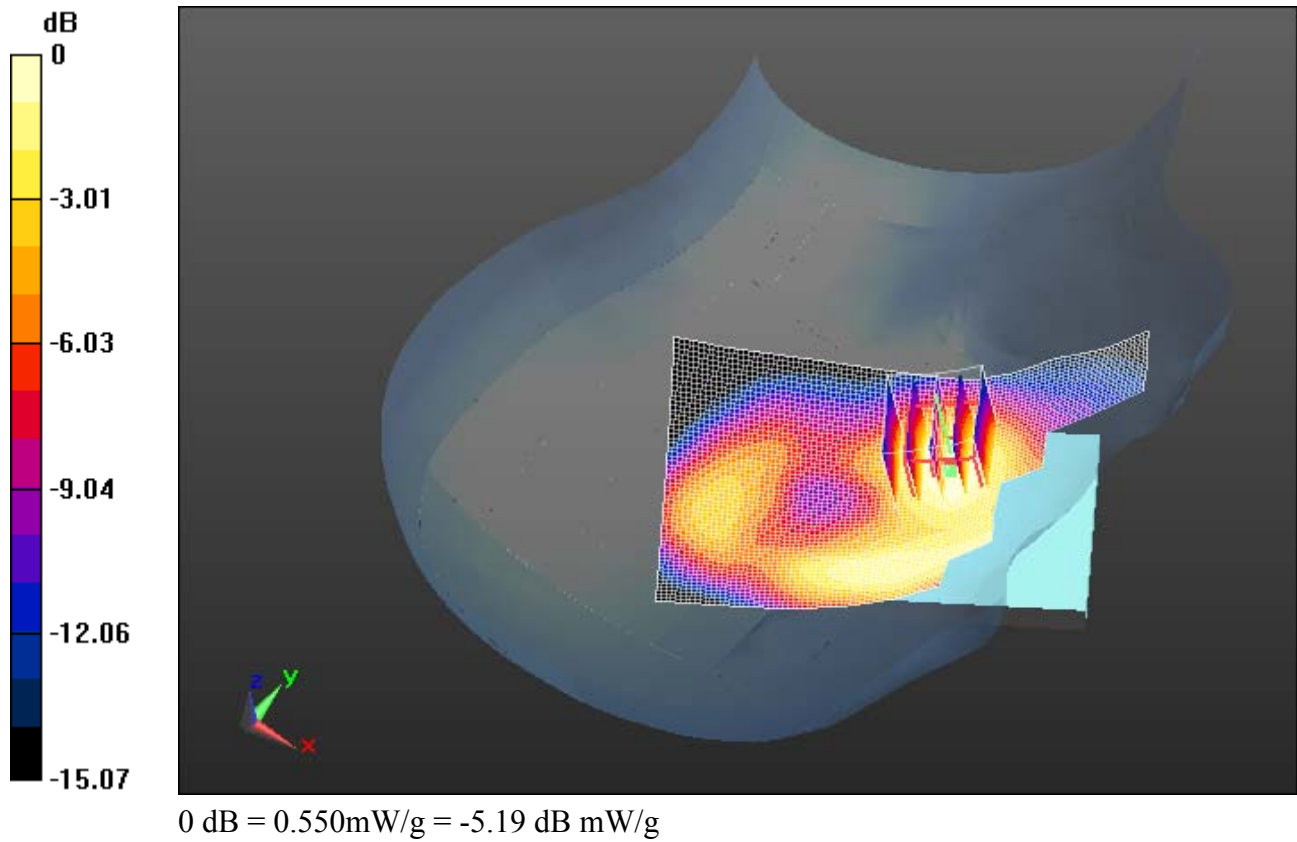
Reference Value = 13.841 V/m ; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.7160

SAR(1 g) = 0.485 mW/g ; SAR(10 g) = 0.306 mW/g

Maximum value of SAR (measured) = 0.549 mW/g

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Author Data Andrew Becker	Dates of Test Nov. 22, 2012 – Feb. 28, 2013	Test Report No RTS-6026-1302-13	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 11/26/2012 7:08:16 PM

Test Laboratory: RIM Testing Services

**RightHandSide_Tilt_DTM/EDGE1900_mid_chan_amb_temp_23.8C_liq_t
emp_21.6C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.354 \text{ mho/m}$; $\epsilon_r = 39.055$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

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

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

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

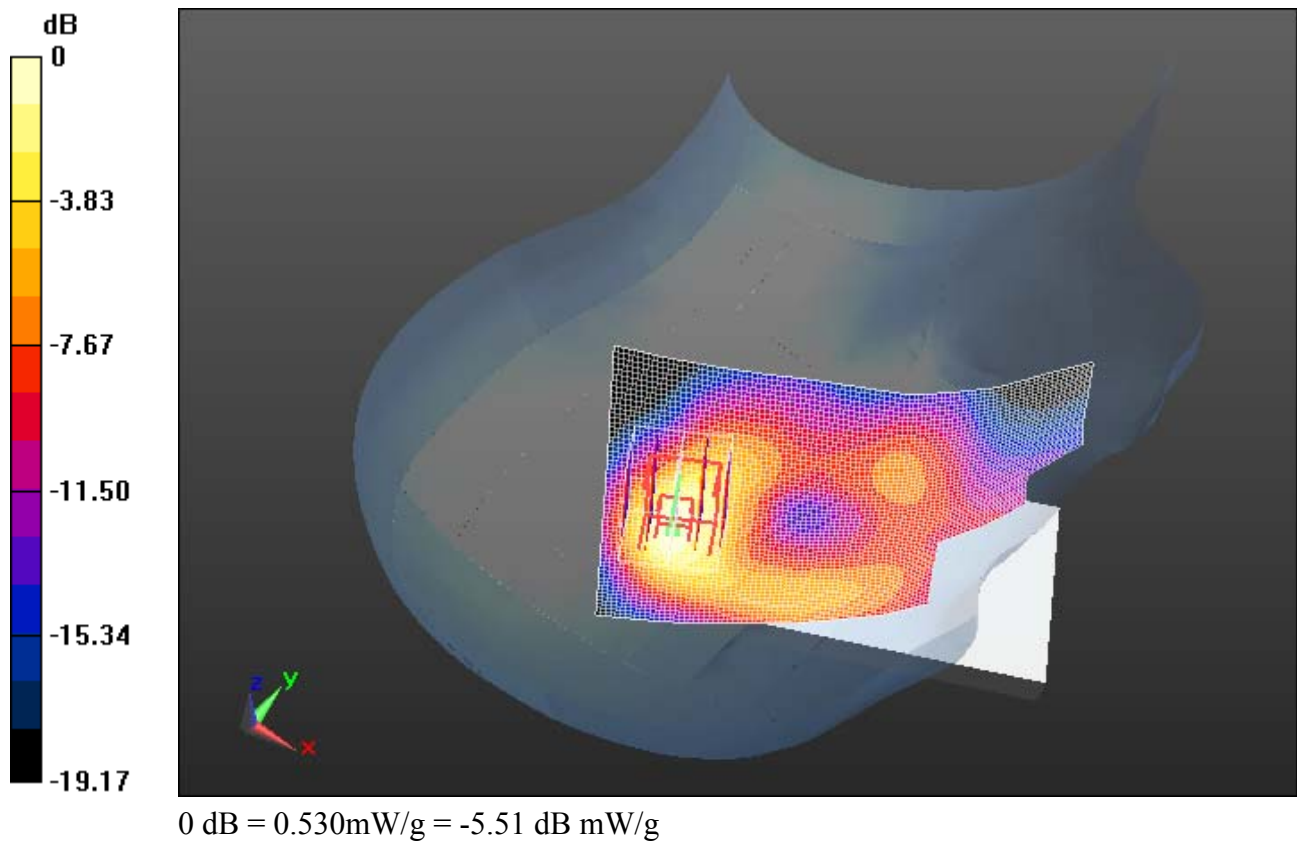
Reference Value = 16.811 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.7270

SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.221 mW/g

Maximum value of SAR (measured) = 0.528 mW/g

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Date/Time: 11/26/2012 7:41:10 PM

Test Laboratory: RIM Testing Services

RightHandSide_GSM1900_mid_chan_amb_temp_24.3C_liq_temp_21.6

C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: GSM 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.354 \text{ mho/m}$; $\epsilon_r = 39.055$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.498 mW/g

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

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

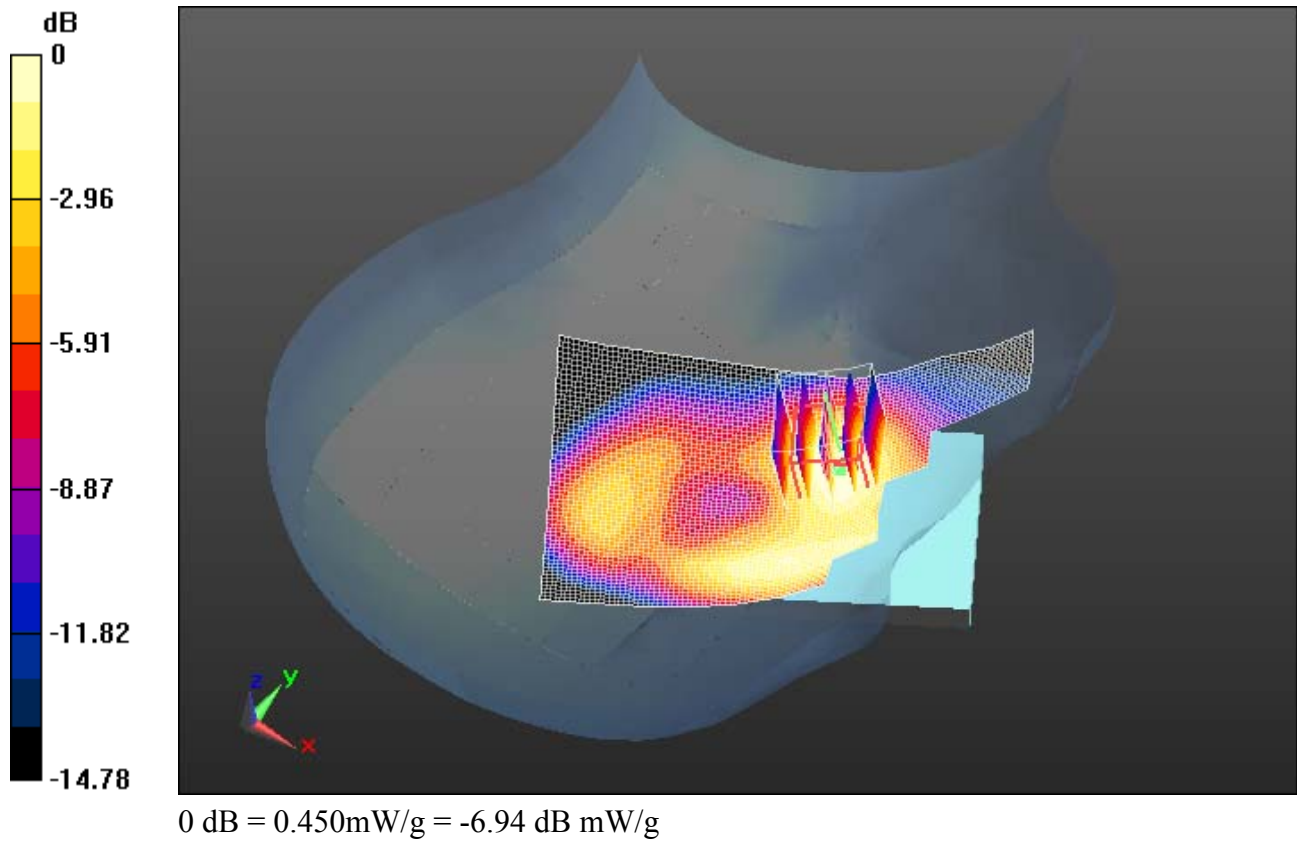
Reference Value = 12.773 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.5590

SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.250 mW/g

Maximum value of SAR (measured) = 0.446 mW/g

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Date/Time: 11/26/2012 3:23:50 PM

Test Laboratory: RIM Testing Services

LeftHandSide_DTM/EDGE1900_low_chan_amb_temp_24.1C_liq_temp_22.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 1900; Frequency: 1850.2 MHz

Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.332 \text{ mho/m}$; $\epsilon_r = 39.105$;
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 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) = 1.132 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 = 14.361 V/m ; Power Drift = -0.06 dB

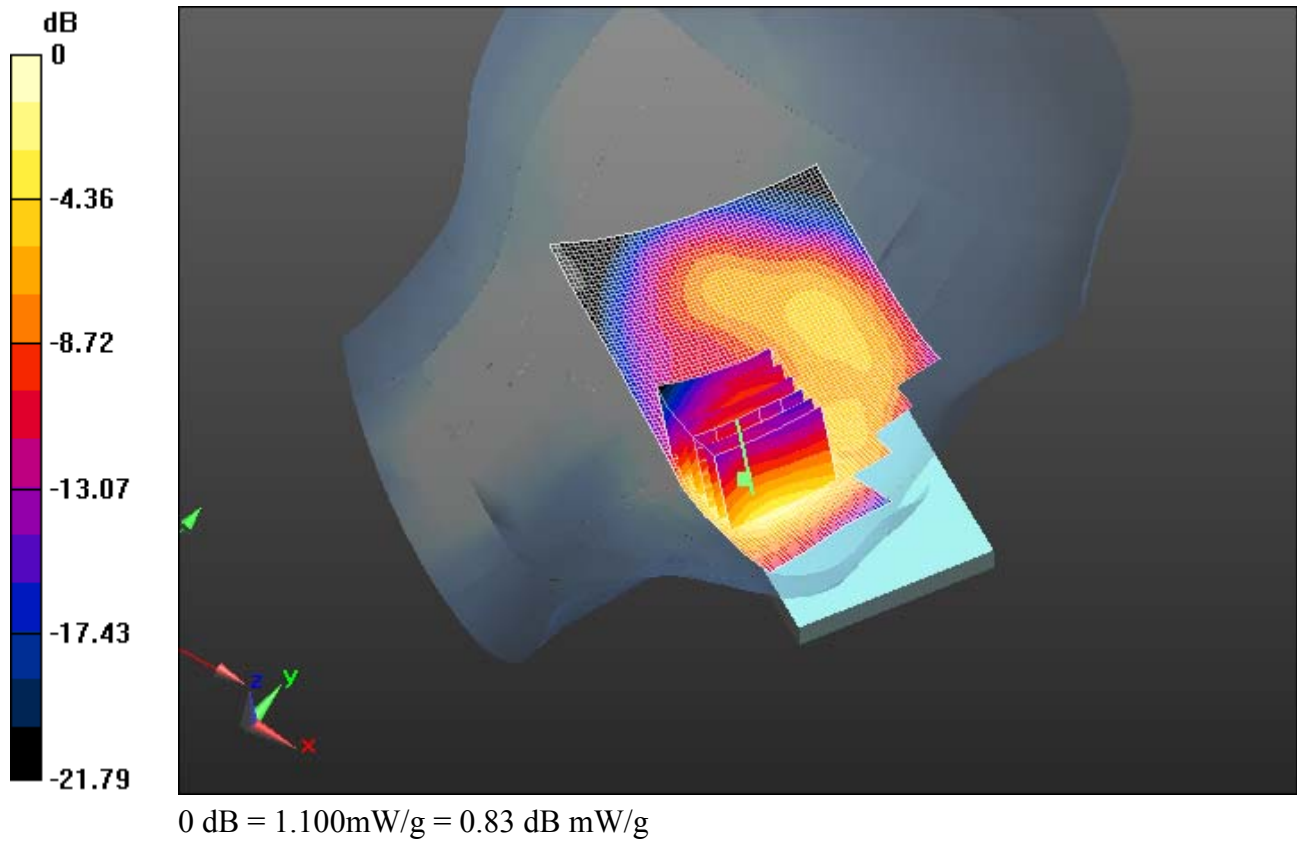
Peak SAR (extrapolated) = 1.5110

SAR(1 g) = 0.901 mW/g ; SAR(10 g) = 0.515 mW/g

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

Maximum value of SAR (measured) = 1.101 mW/g

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Date/Time: 11/29/2012 10:02:03 AM

Test Laboratory: RIM Testing Services

LeftHandSide_DTM/EDGE1900_low_chan_amb_temp_24.1C_liq_temp_22.5C_2nd

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 1900; Frequency: 1850.2 MHz

Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.339 \text{ mho/m}$; $\epsilon_r = 38.703$;
 $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 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) = 1.121 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 = 13.779 V/m; Power Drift = 0.02 dB

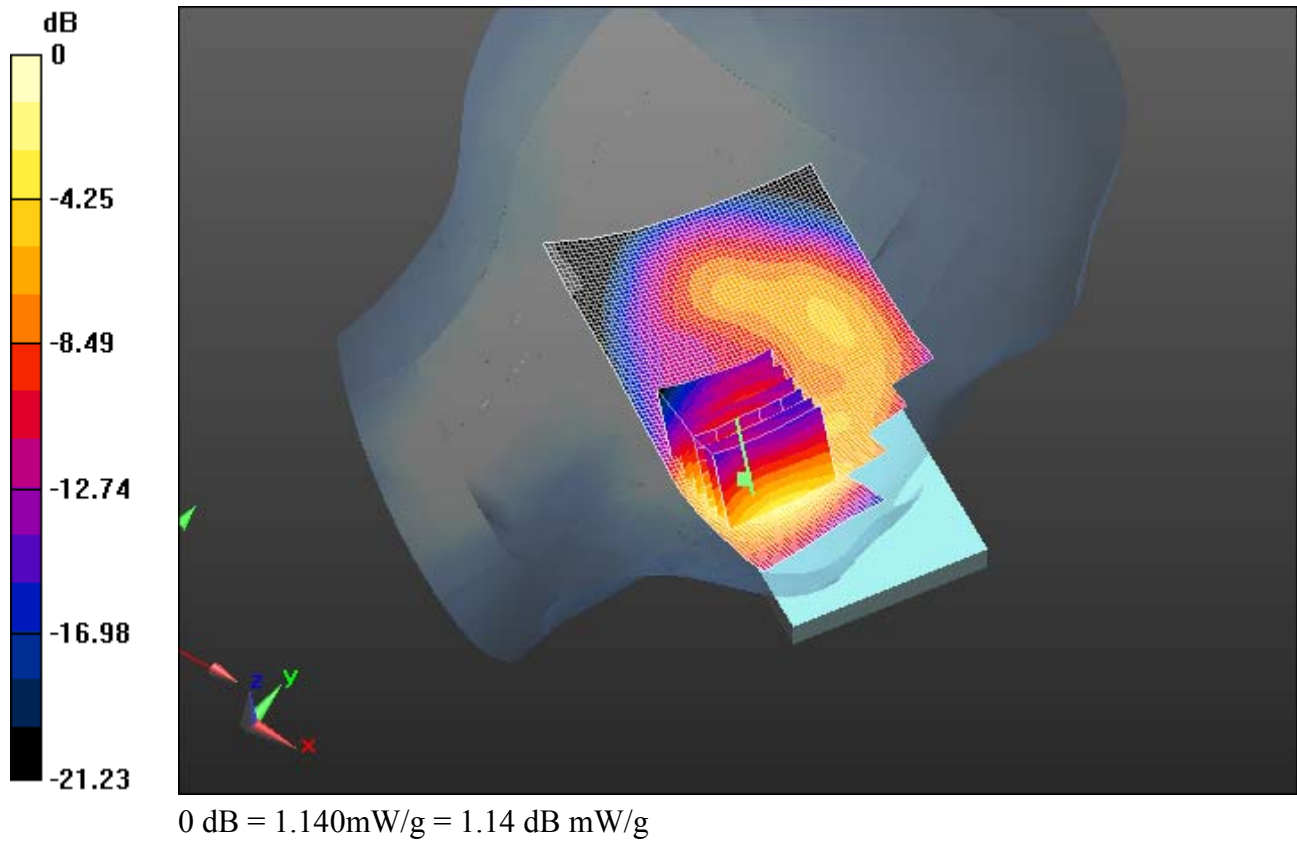
Peak SAR (extrapolated) = 1.6460

SAR(1 g) = 0.947 mW/g; SAR(10 g) = 0.524 mW/g

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

Maximum value of SAR (measured) = 1.144 mW/g

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Date/Time: 11/26/2012 3:07:28 PM

Test Laboratory: RIM Testing Services

LeftHandSide_DTM/EDGE1900_mid_chan_amb_temp_24.1C_liq_temp_22.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.354 \text{ mho/m}$; $\epsilon_r = 39.055$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 1.026 mW/g

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

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

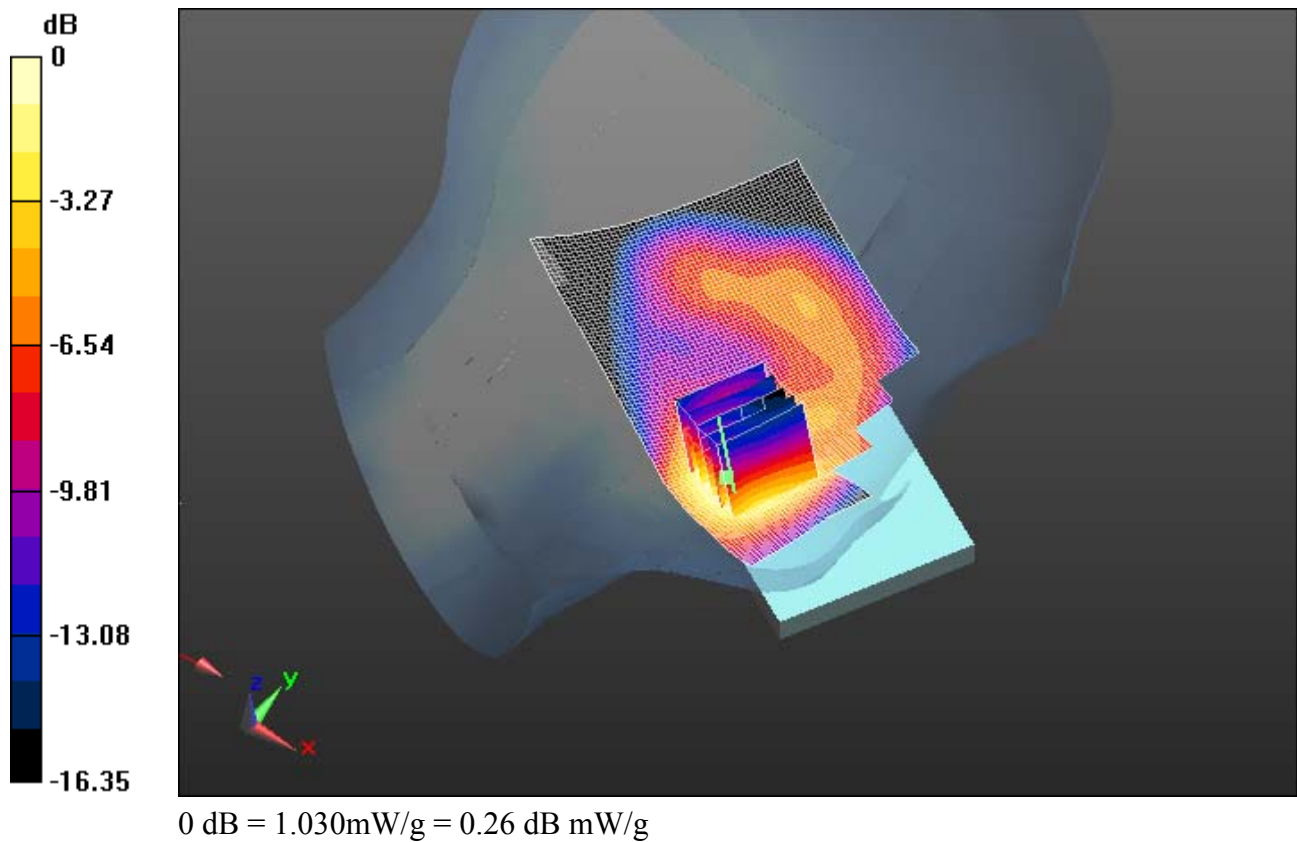
Reference Value = 13.869 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.4290

SAR(1 g) = 0.846 mW/g; SAR(10 g) = 0.461 mW/g

Maximum value of SAR (measured) = 1.032 mW/g

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Date/Time: 11/26/2012 3:43:18 PM

Test Laboratory: RIM Testing Services

LeftHandSide_DTM/EDGE1900_high_chan_amb_temp_24.1C_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 1900; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.375$ mho/m; $\epsilon_r = 38.85$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 0.989 mW/g

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

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

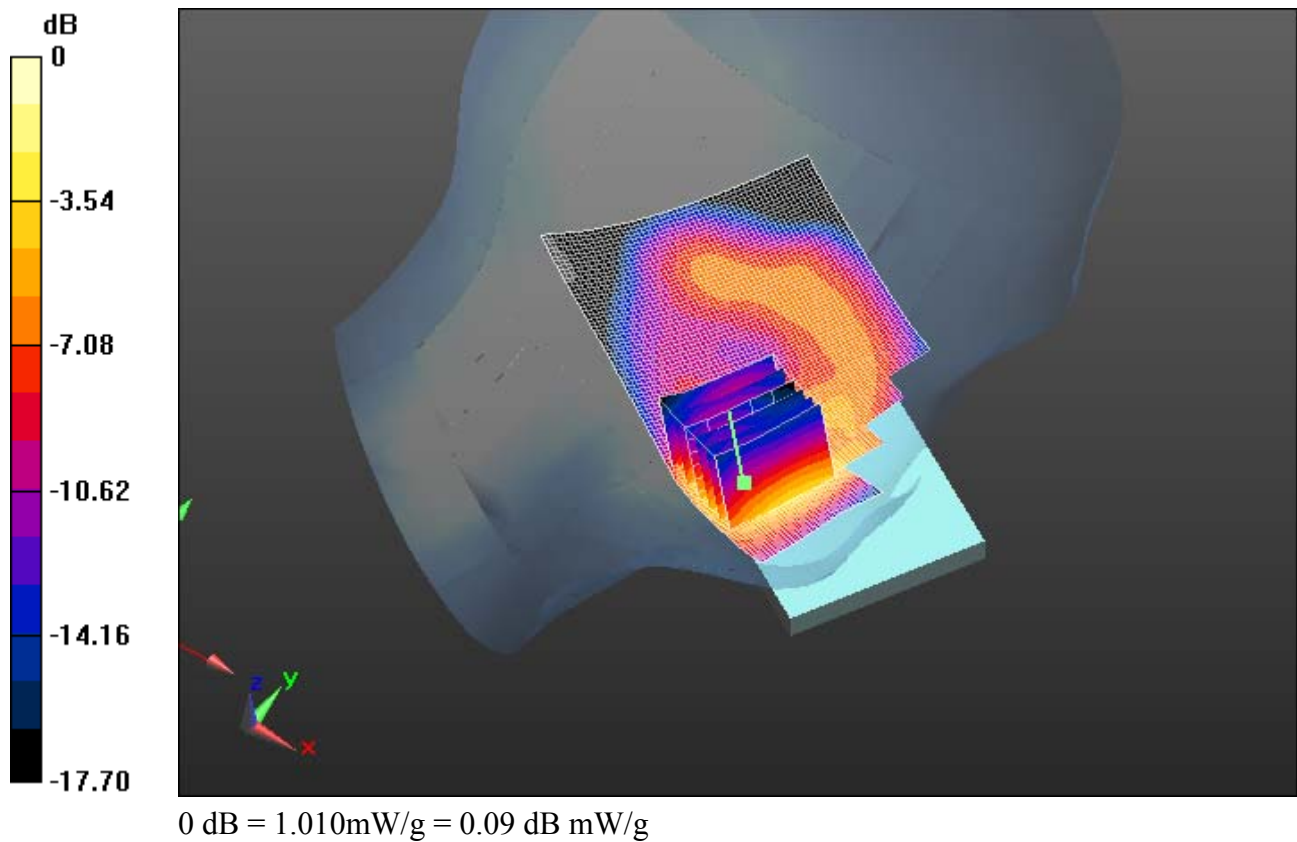
Reference Value = 13.822 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.4370

SAR(1 g) = 0.810 mW/g; SAR(10 g) = 0.440 mW/g

Maximum value of SAR (measured) = 1.012 mW/g

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Date/Time: 11/26/2012 4:05:15 PM

Test Laboratory: RIM Testing Services

**LeftHandSide_DTM/EDGE1900_3slots_low_chan_amb_temp_24.1C_liq
_temp_22.6C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 1900(3 slots); Frequency: 1850.2 MHz
Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.332 \text{ mho/m}$; $\epsilon_r = 39.105$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 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) = 0.899 mW/g

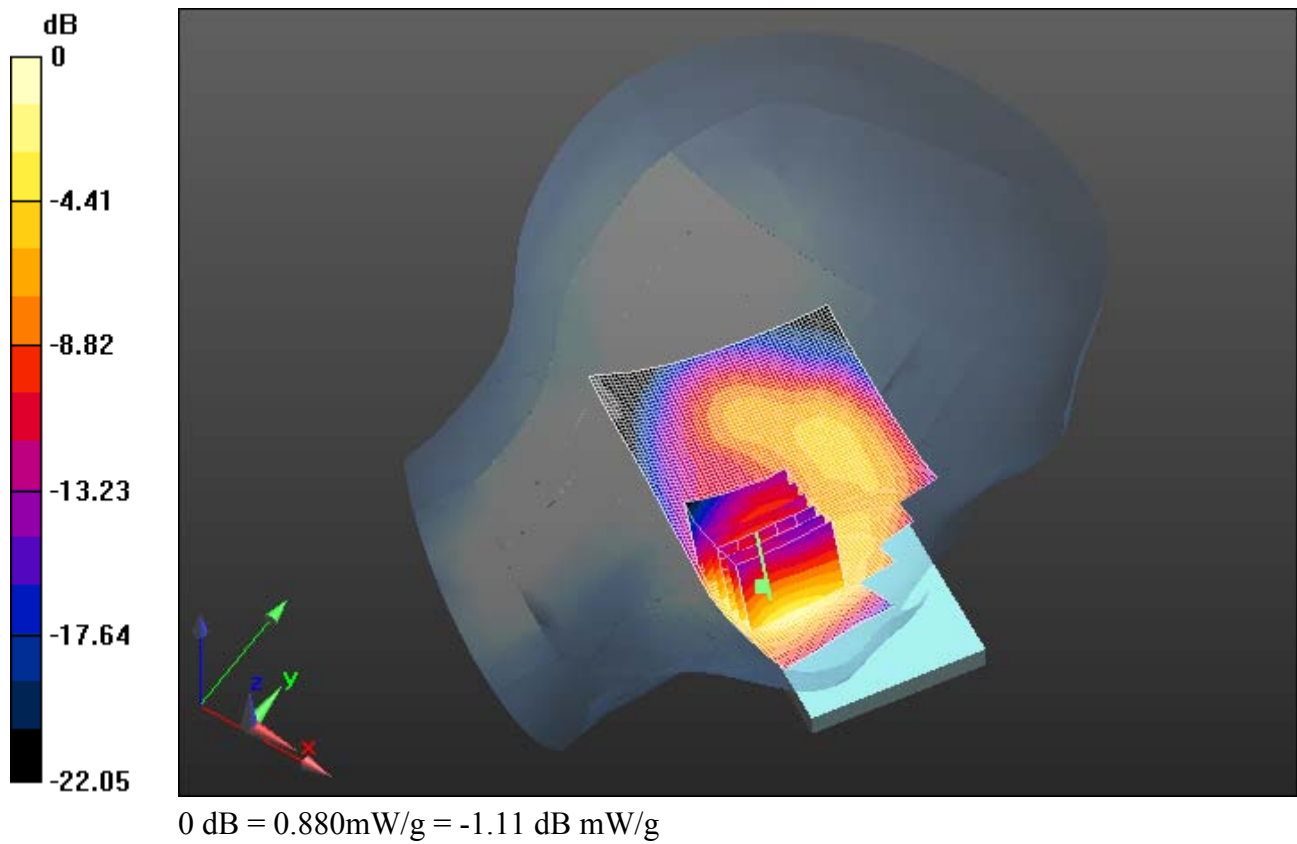
Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 12.834 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.2210
SAR(1 g) = 0.728 mW/g; SAR(10 g) = 0.415 mW/g

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

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

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Date/Time: 11/26/2012 4:24:09 PM

Test Laboratory: RIM Testing Services

LeftHandSide_EDGE1900_4slots_low_chan_amb_temp_24.1C_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 1900(4 slots); Frequency: 1850.2 MHz
Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.332 \text{ mho/m}$; $\epsilon_r = 39.105$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 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) = 1.006 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 = 13.613 V/m; Power Drift = 0.0048 dB

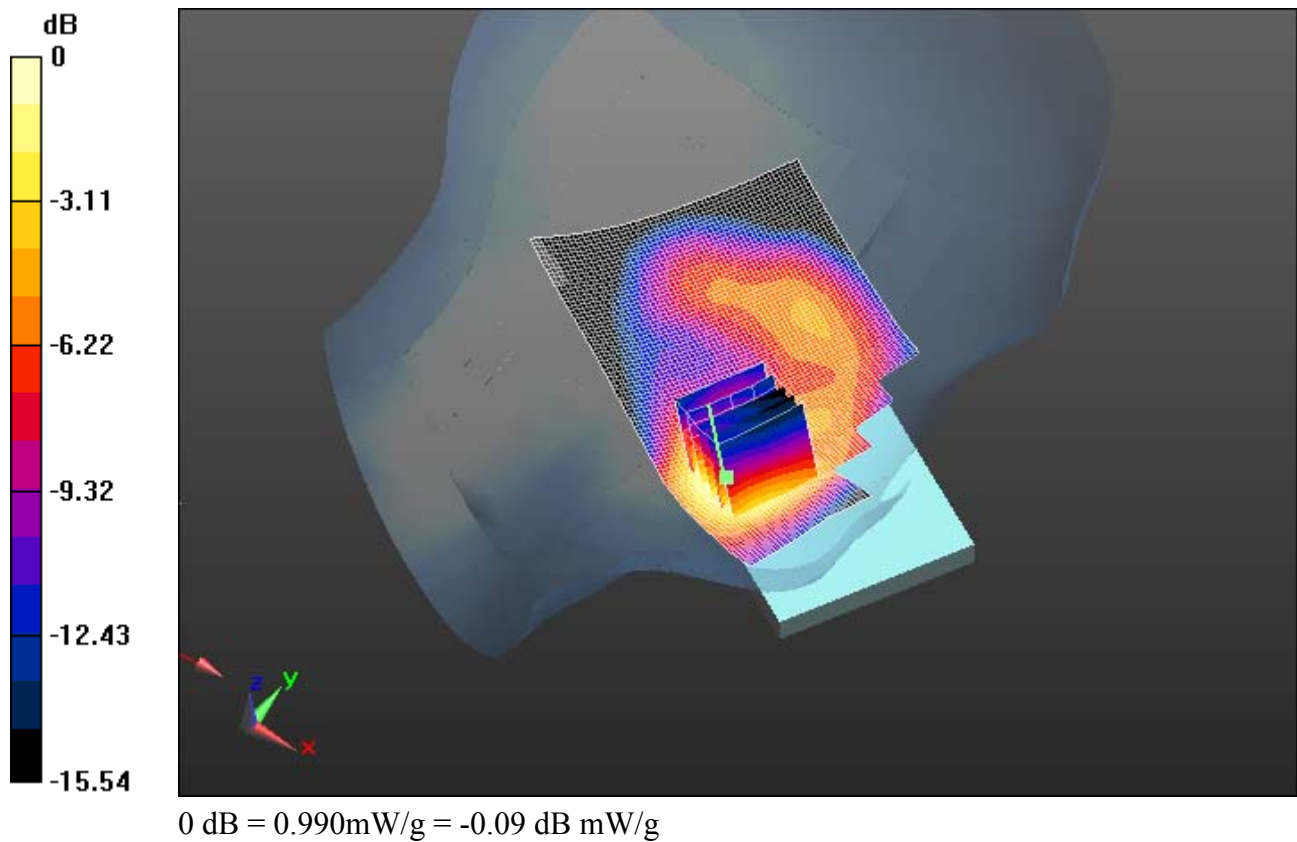
Peak SAR (extrapolated) = 1.3830

SAR(1 g) = 0.819 mW/g; SAR(10 g) = 0.451 mW/g

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

Maximum value of SAR (measured) = 0.989 mW/g

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Date/Time: 11/26/2012 2:34:15 PM

Test Laboratory: RIM Testing Services

LeftHandSide_Tilt_DTM/EDGE1900_mid_chan_amb_temp_24.4C_liq_temper_22.5C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.354 \text{ mho/m}$; $\epsilon_r = 39.055$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Tilt position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.534 mW/g

Configuration/Tilt position -/Zoom Scan (5x5x7) (6x7x7)/Cube 0:

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

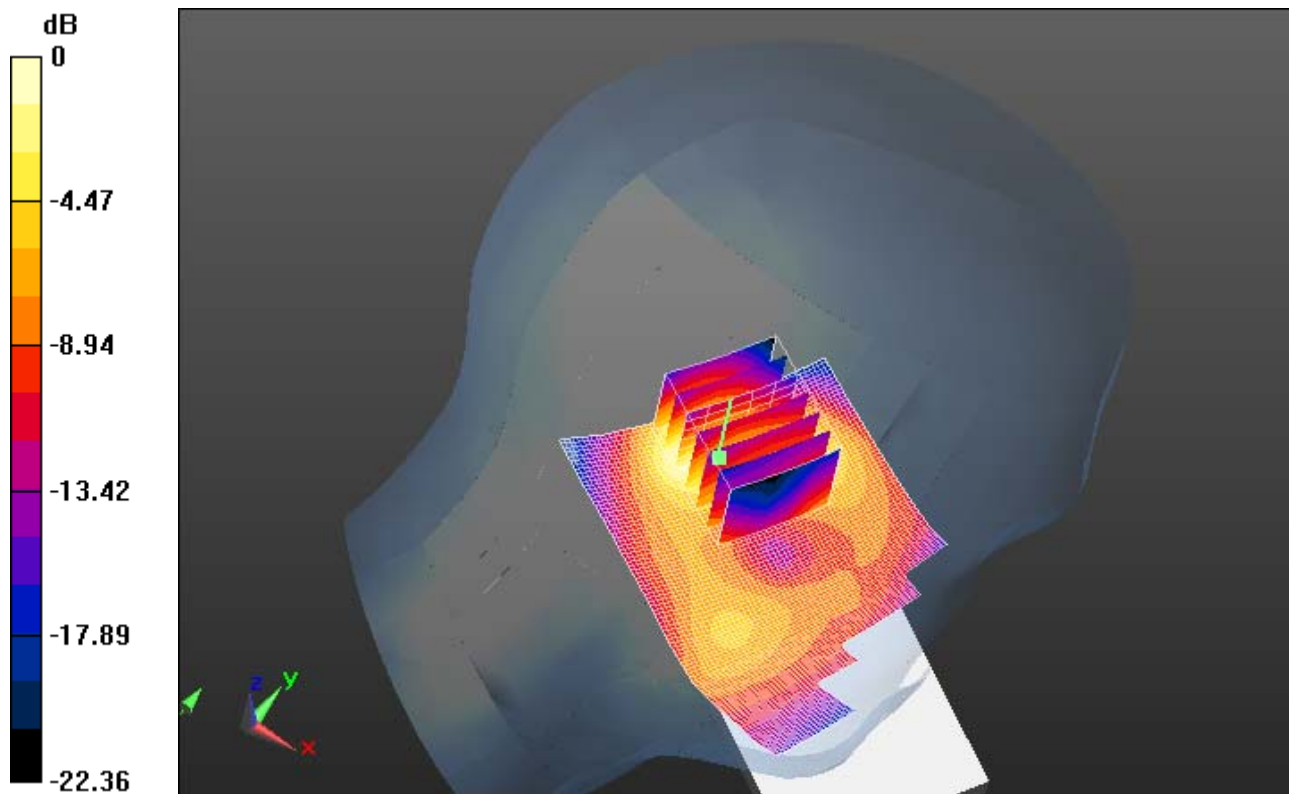
Reference Value = 19.186 V/m ; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.6880

SAR(1 g) = 0.411 mW/g ; SAR(10 g) = 0.227 mW/g

Maximum value of SAR (measured) = 0.487 mW/g

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0 dB = 0.490mW/g = -6.20 dB mW/g

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Date/Time: 11/26/2012 4:43:21 PM

Test Laboratory: RIM Testing Services

LeftHandSide_GSM1900_low_chan_amb_temp_23.9C_liq_temp_22.4C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: GSM 1900; Frequency: 1850.2 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.332$ mho/m; $\epsilon_r = 39.105$;
 $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 0.847 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 = 12.320 V/m; Power Drift = 0.08 dB

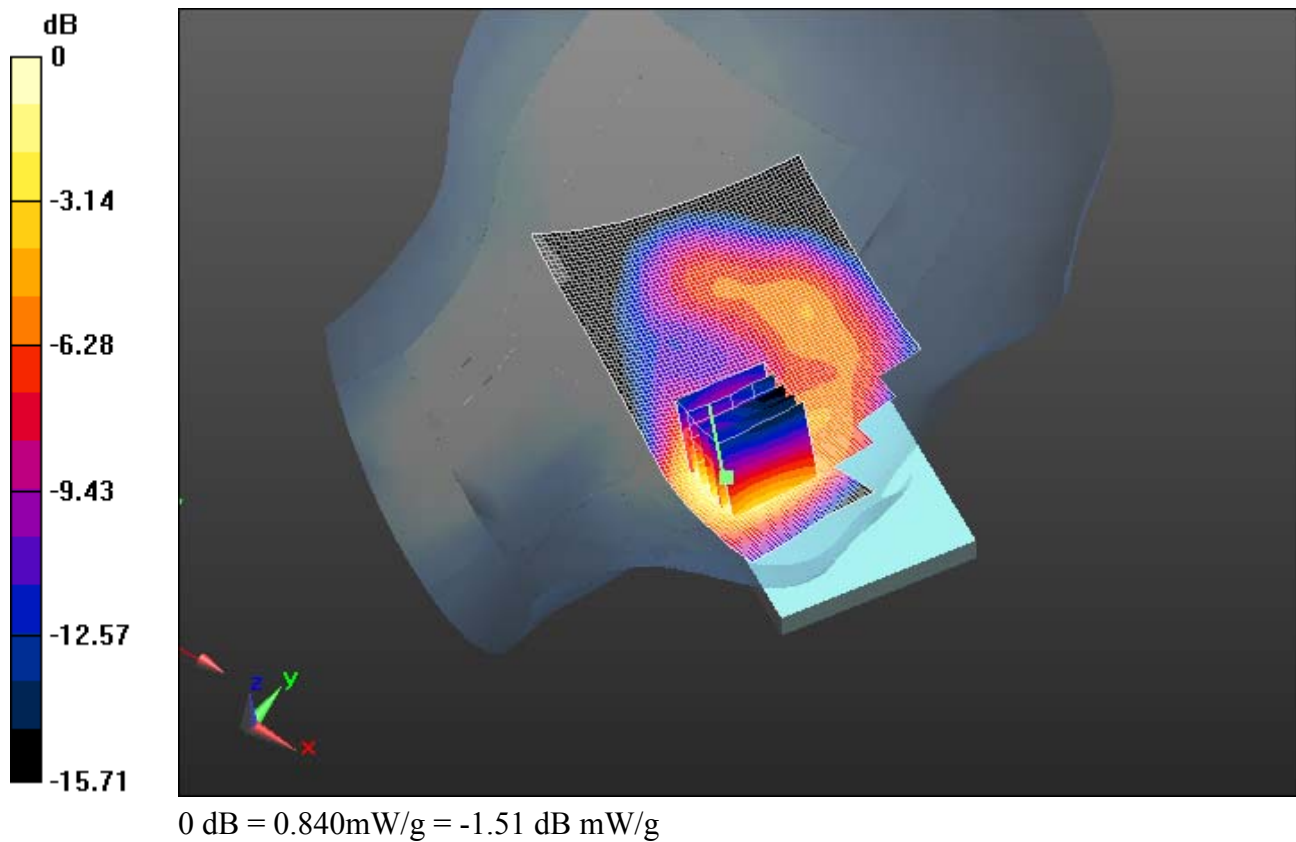
Peak SAR (extrapolated) = 1.1690

SAR(1 g) = 0.697 mW/g; SAR(10 g) = 0.379 mW/g

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

Maximum value of SAR (measured) = 0.843 mW/g

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Date/Time: 11/29/2012 4:17:42 PM

Test Laboratory: RIM Testing Services

LeftHandSide_DTM/EDGE1900_low_chan_amb_temp_24.2C_liq_temp_22.8C_2100

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: EDGE 1900; Frequency: 1850.2 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.339$ mho/m; $\epsilon_r = 38.703$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- 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) = 1.180 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 = 14.070 V/m; Power Drift = -0.07 dB

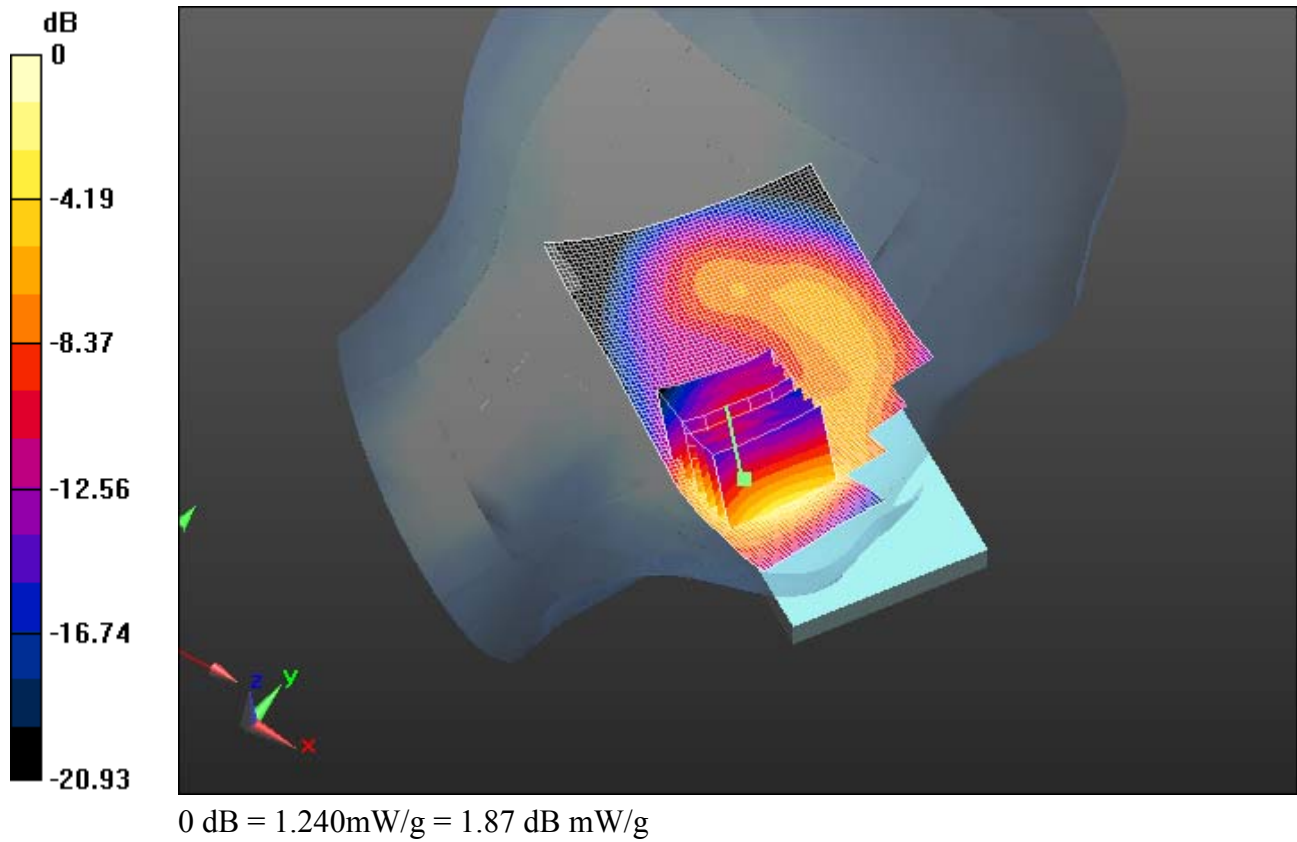
Peak SAR (extrapolated) = 1.7270

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.556 mW/g

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

Maximum value of SAR (measured) = 1.238 mW/g

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UMTS Band II

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Date/Time: 11/26/2012 11:12:27 AM

Test Laboratory: RIM Testing Services

RightHandSide_UMTS_Band_II_mid_chan_amb_temp_24.7C_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.354 \text{ mho/m}$; $\epsilon_r = 39.055$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.683 mW/g

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

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

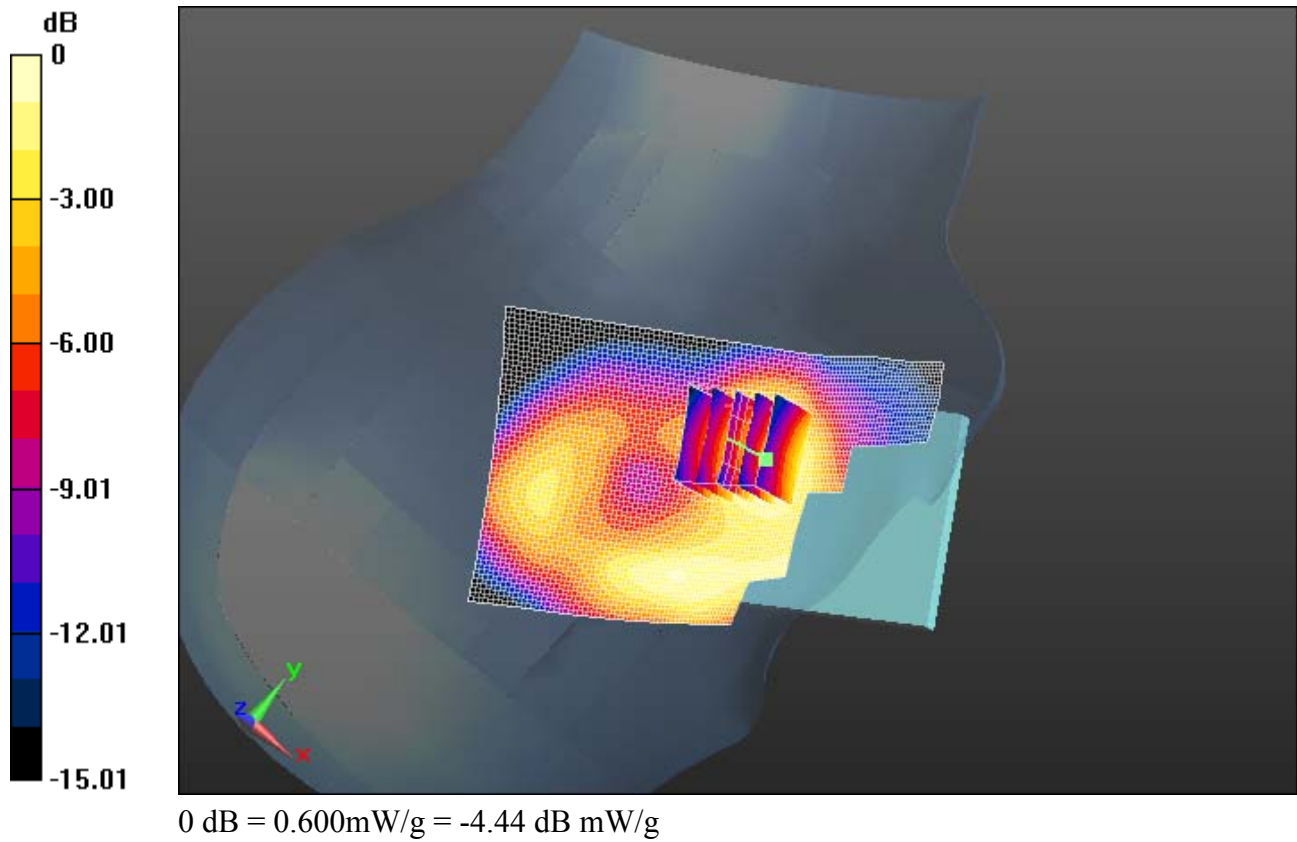
Reference Value = 14.711 V/m; Power Drift = 0.27 dB

Peak SAR (extrapolated) = 0.7550

SAR(1 g) = 0.535 mW/g; SAR(10 g) = 0.347 mW/g

Maximum value of SAR (measured) = 0.597 mW/g

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Date/Time: 11/26/2012 11:33:21 AM

Test Laboratory: RIM Testing Services

RightHandSide_Tilt_UMTS_Band_II_mid_chan_amb_temp_24.5C_liq_temper_22.7C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.354 \text{ mho/m}$; $\epsilon_r = 39.055$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.621 mW/g

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

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

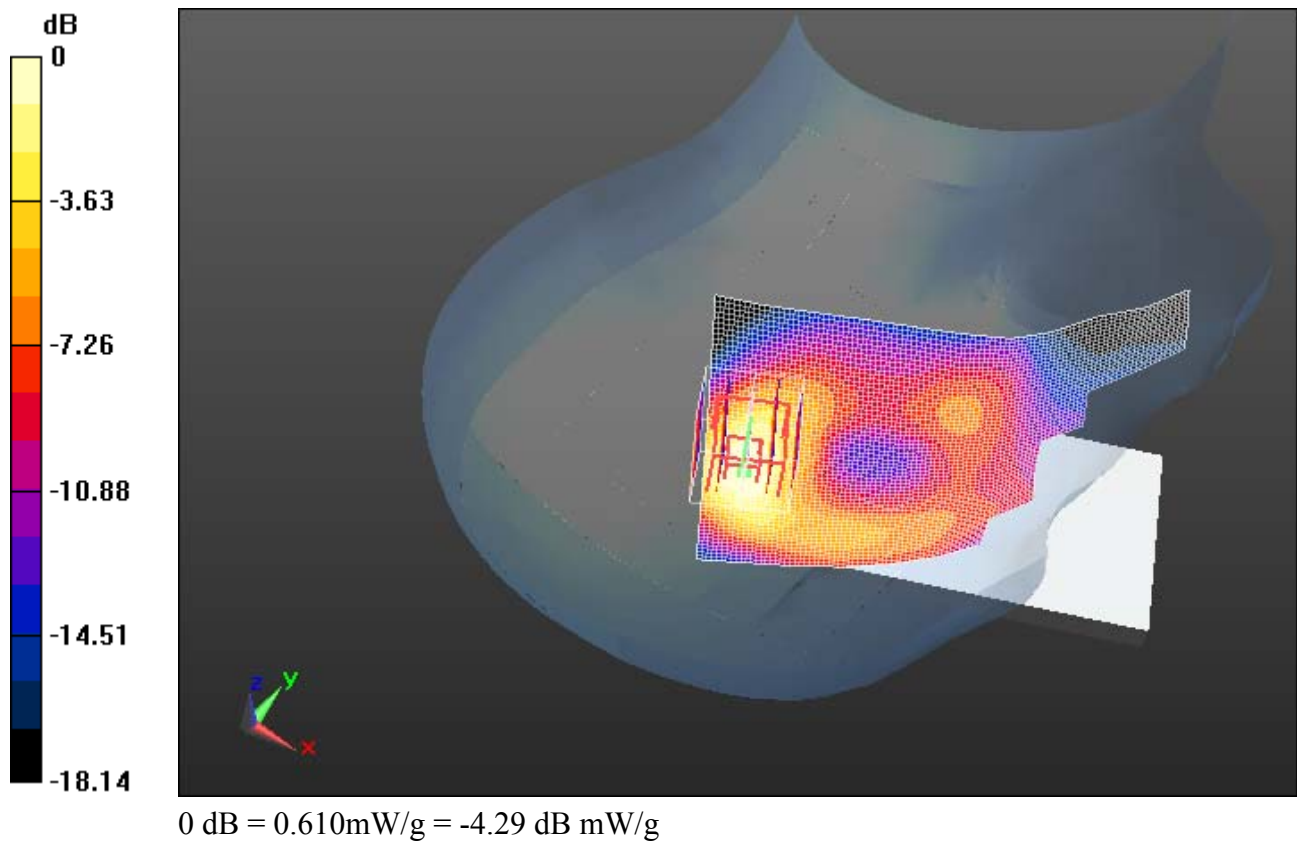
Reference Value = 18.157 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.8320

SAR(1 g) = 0.497 mW/g; SAR(10 g) = 0.272 mW/g

Maximum value of SAR (measured) = 0.613 mW/g

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Date/Time: 11/26/2012 12:08:29 PM

Test Laboratory: RIM Testing Services

LeftHandSide_UMTS_Band_II_low_chan_amb_temp_24.3C_liq_temp_2 2.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.333$ mho/m; $\epsilon_r = 39.104$;
 $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 1.146 mW/g

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

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

Reference Value = 14.654 V/m; Power Drift = -0.04 dB

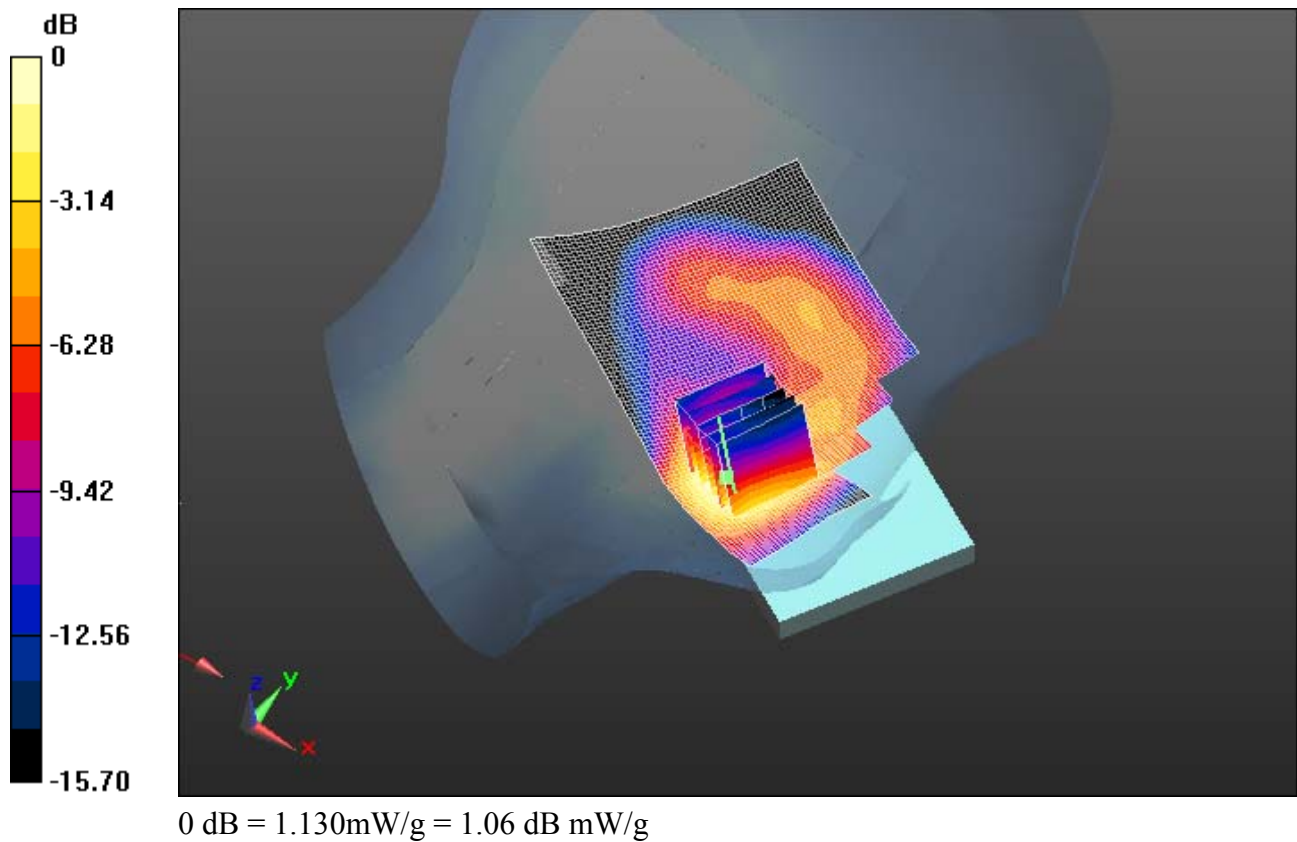
Peak SAR (extrapolated) = 1.5630

SAR(1 g) = 0.927 mW/g; SAR(10 g) = 0.507 mW/g

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

Maximum value of SAR (measured) = 1.125 mW/g

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Date/Time: 11/26/2012 11:51:31 AM

Test Laboratory: RIM Testing Services

LeftHandSide_UMTS_Band_II_mid_chan_amb_temp_24.4C_liq_temp_2 2.7C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.354 \text{ mho/m}$; $\epsilon_r = 39.055$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 1.207 mW/g

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

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

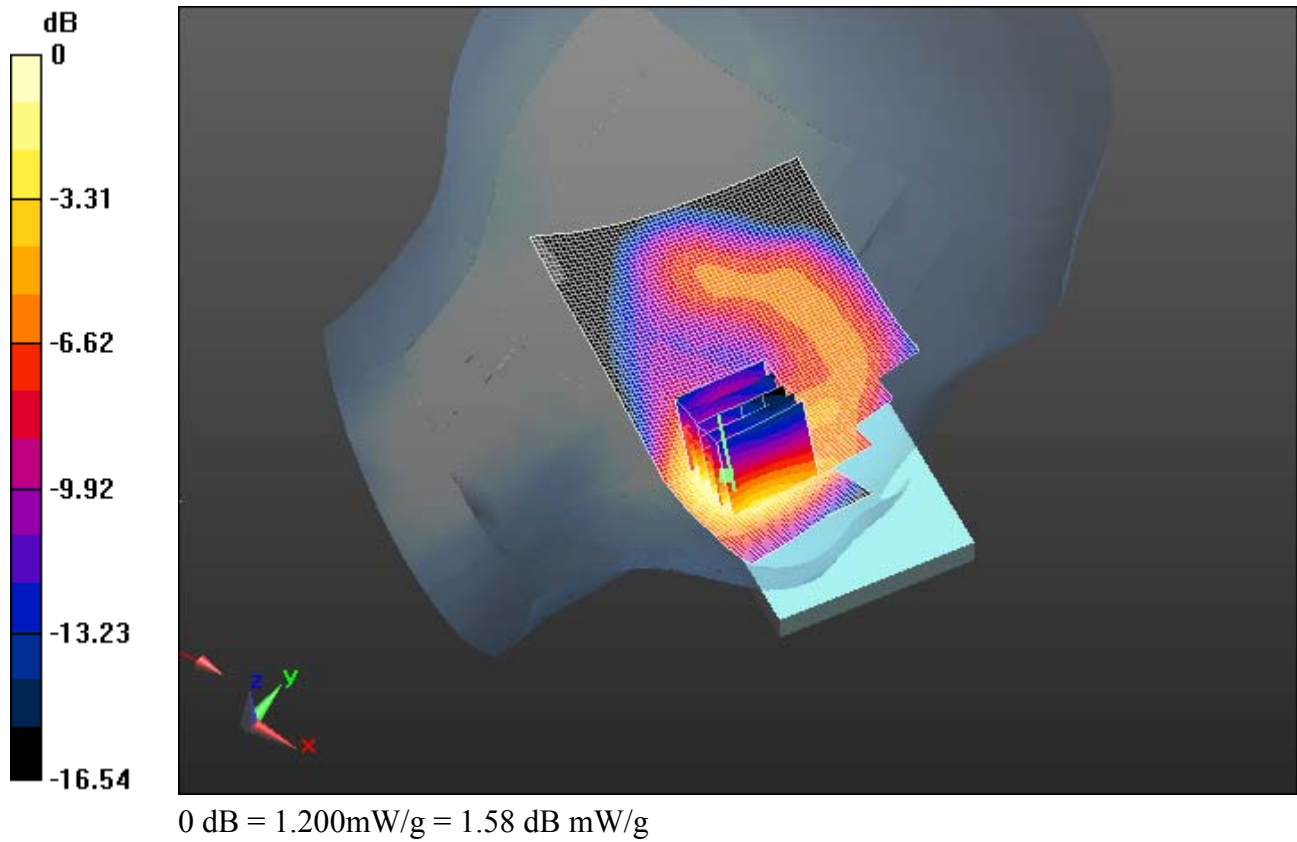
Reference Value = 14.773 V/m ; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.6570

SAR(1 g) = 0.980 mW/g ; SAR(10 g) = 0.529 mW/g

Maximum value of SAR (measured) = 1.202 mW/g

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Date/Time: 11/26/2012 12:24:37 PM

Test Laboratory: RIM Testing Services

LeftHandSide_UMTS_Band_II_high_chan_amb_temp_24.2C_liq_temp_2 2.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.372$ mho/m; $\epsilon_r = 38.852$;
 $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 1.251 mW/g

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

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

Reference Value = 14.849 V/m; Power Drift = 0.09 dB

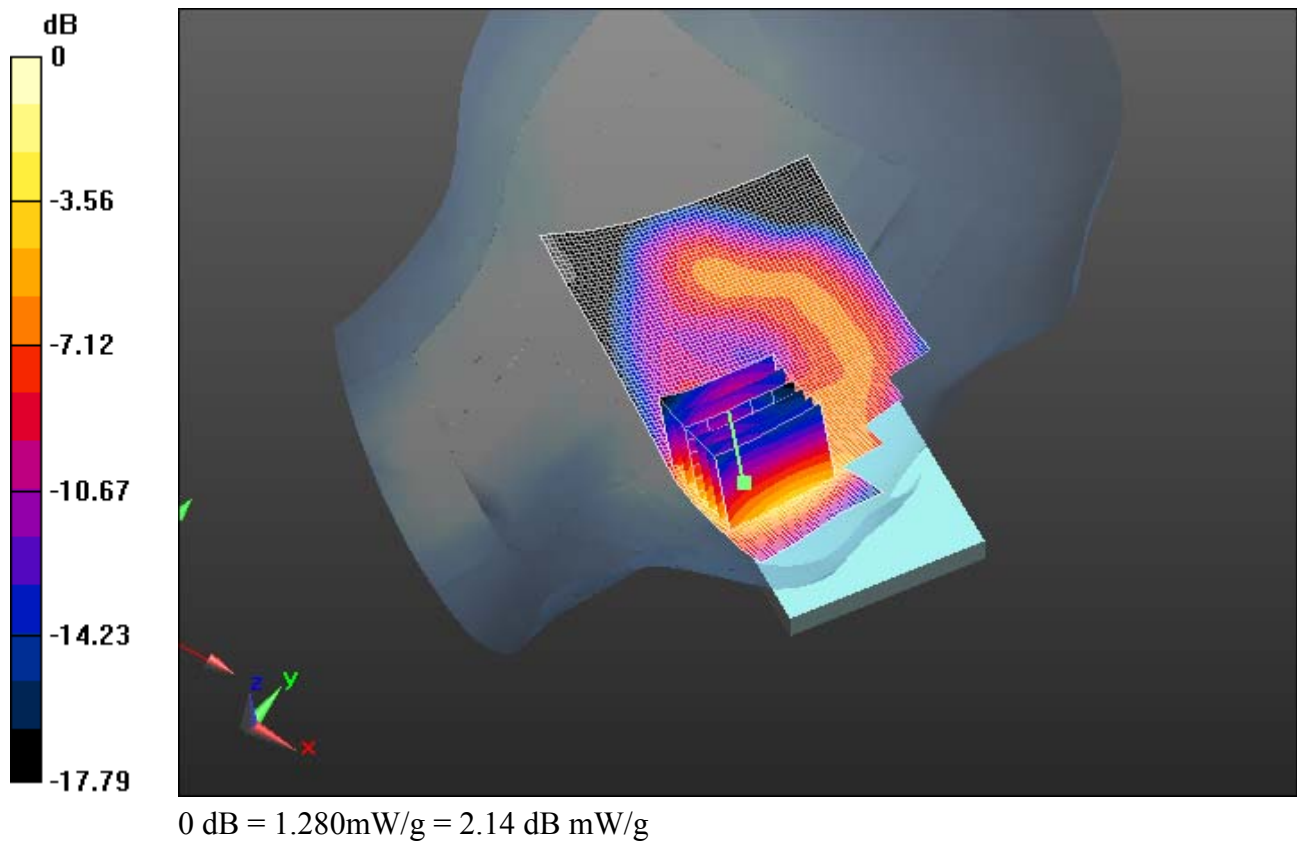
Peak SAR (extrapolated) = 1.7750

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.564 mW/g

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

Maximum value of SAR (measured) = 1.282 mW/g

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Date/Time: 11/29/2012 10:24:05 AM

Test Laboratory: RIM Testing Services

LeftHandSide_UMTS_Band_II_high_chan_amb_temp_24.0C_liq_temp_2 2.5C_2nd

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.395$ mho/m; $\epsilon_r = 38.416$;
 $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 1.248 mW/g

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

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

Reference Value = 14.544 V/m; Power Drift = -0.03 dB

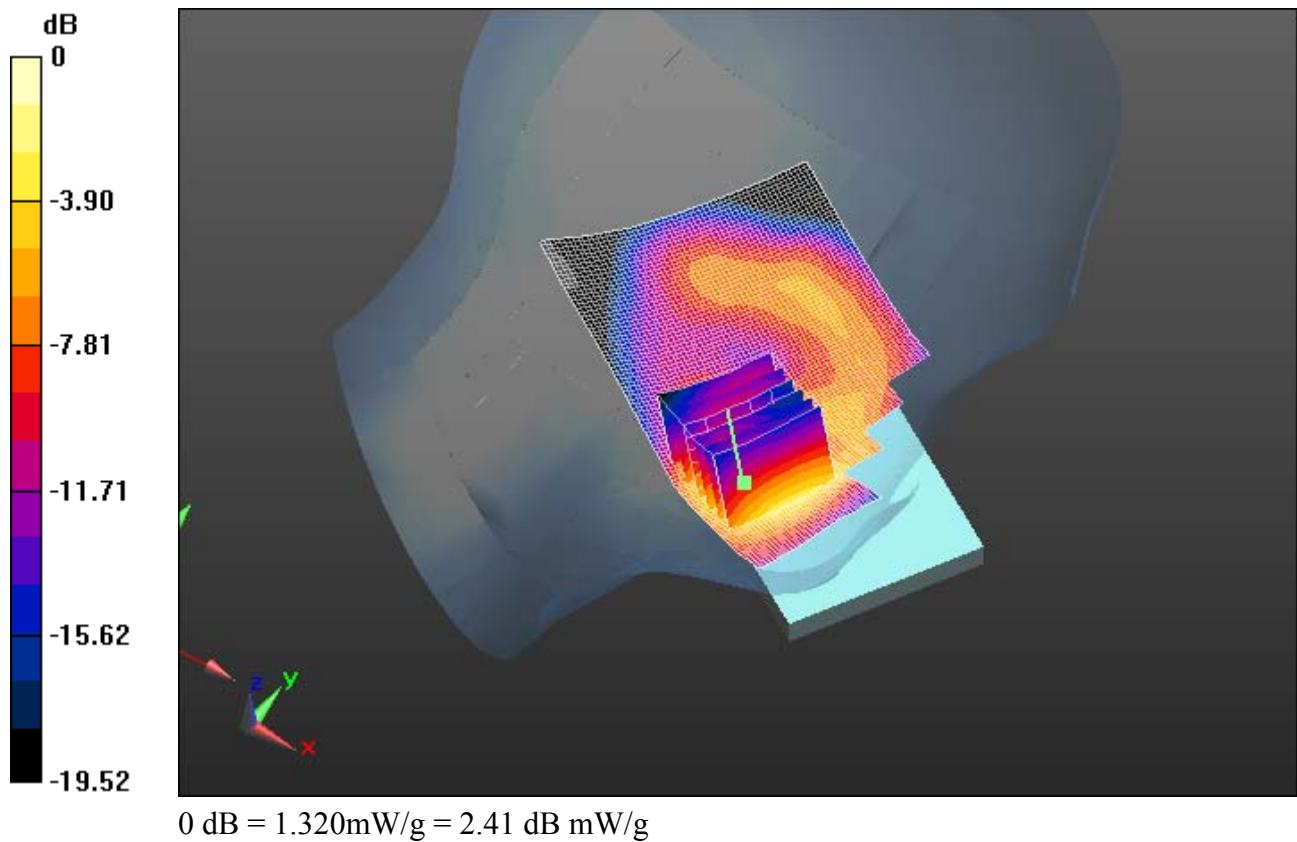
Peak SAR (extrapolated) = 1.8760

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.573 mW/g

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

Maximum value of SAR (measured) = 1.325 mW/g

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Date/Time: 11/26/2012 12:50:37 PM

Test Laboratory: RIM Testing Services

**LeftHandSide_Tilt_UMTS_Band_II_mid_chan_amb_temp_24.1C_liq_tem
p_22.5C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD II; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.354 \text{ mho/m}$; $\epsilon_r = 39.055$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Tilt position -/Area Scan (61x101x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.660 mW/g

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

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

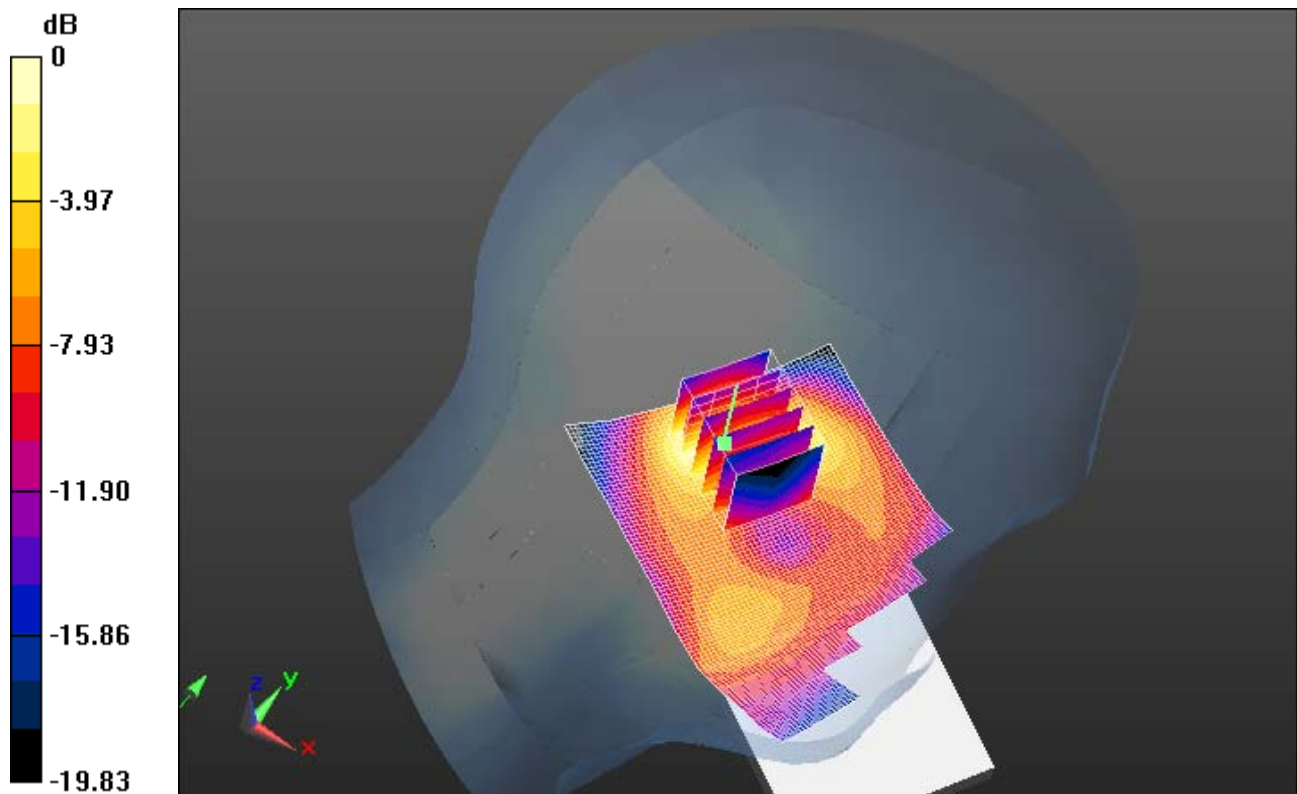
Reference Value = 21.455 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.8220

SAR(1 g) = 0.503 mW/g ; SAR(10 g) = 0.270 mW/g

Maximum value of SAR (measured) = 0.609 mW/g

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0 dB = 0.610mW/g = -4.29 dB mW/g

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Date/Time: 11/29/2012 3:41:54 PM

Test Laboratory: RIM Testing Services

**LeftHandSide_UMTS_Band_II_high_chan_amb_temp_24.0C_liq_temp_2
2.5C_2100**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz
Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.395 \text{ mho/m}$; $\epsilon_r = 38.416$;
 $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 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) = 1.287 mW/g

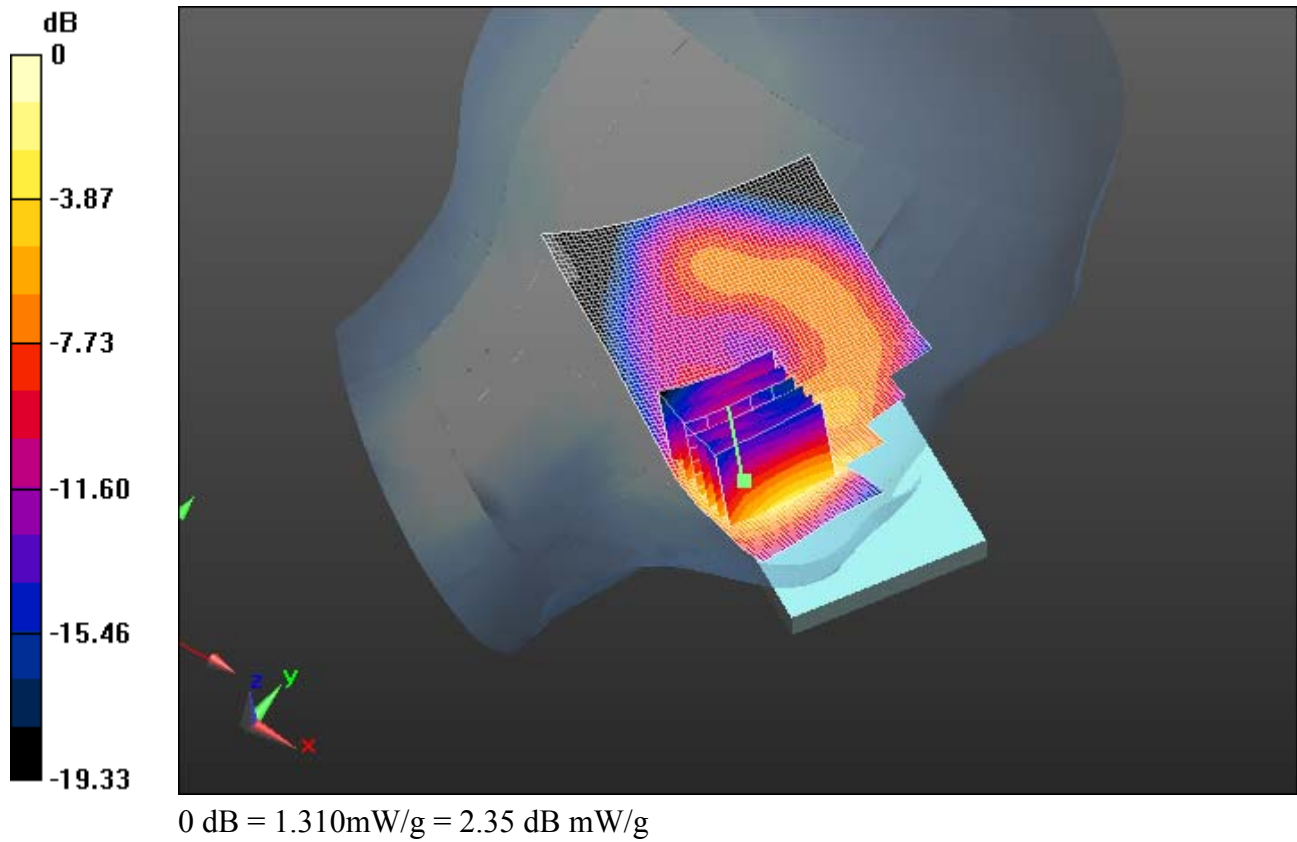
Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 14.449 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.8980
SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.569 mW/g

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

Maximum value of SAR (measured) = 1.315 mW/g

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Date/Time: 1/29/2013 12:03:27 PM

Test Laboratory: RIM Testing Services

LeftHandSide_UMTS_Band_II_high_chan_amb_temp_23.8C_liq_temp_2 2.7C_2100_2nd_Scan

DUT: BlackBerry Smartphone; Type: Sample; Serial: 25CF0AD9

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1907.6 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.388 \text{ S/m}$; $\epsilon_r = 38.299$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.21, 5.21, 5.21); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Touch position -/Area Scan (61x101x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

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

Maximum value of SAR (interpolated) = 1.13 W/kg

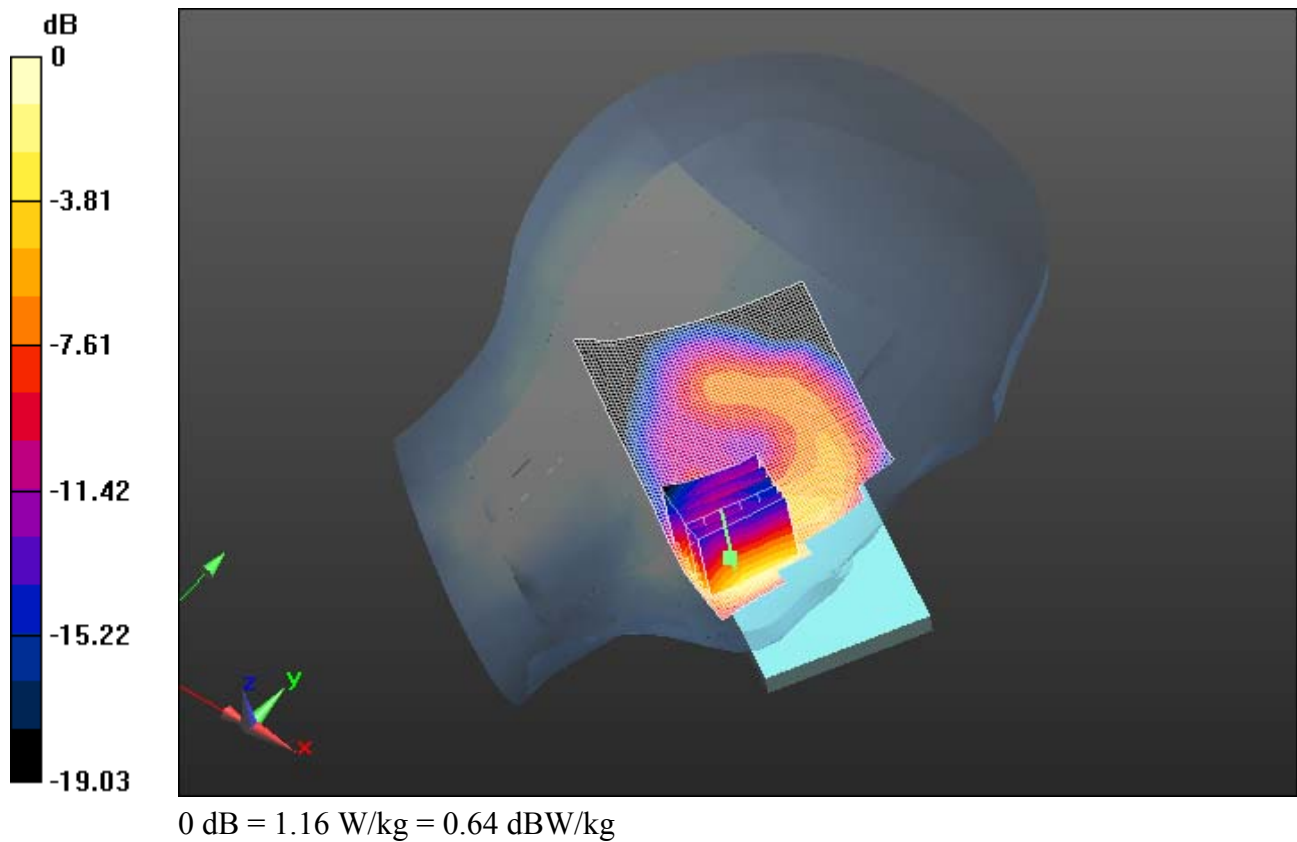
Configuration/Touch position -/Zoom Scan (5x5x7) (6x6x7)/Cube 0:

Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 14.437 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 1.81 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.566 W/kg

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

Maximum value of SAR (measured) = 1.16 W/kg

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802.11b

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Date/Time: 1/5/2013 12:26:27 AM

Test Laboratory: RIM Testing Services

RightHandSide_Touch_802.11b

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

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

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 38.429$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.6, 4.6, 4.6); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Right-Hand-Side HSL/Touch Position -

802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Area Scan (81x121x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

Maximum value of SAR (interpolated) = 0.348 W/kg

Right-Hand-Side HSL/Touch Position -

802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Zoom Scan (9x8x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 10.661 V/m; Power Drift = -0.08 dB

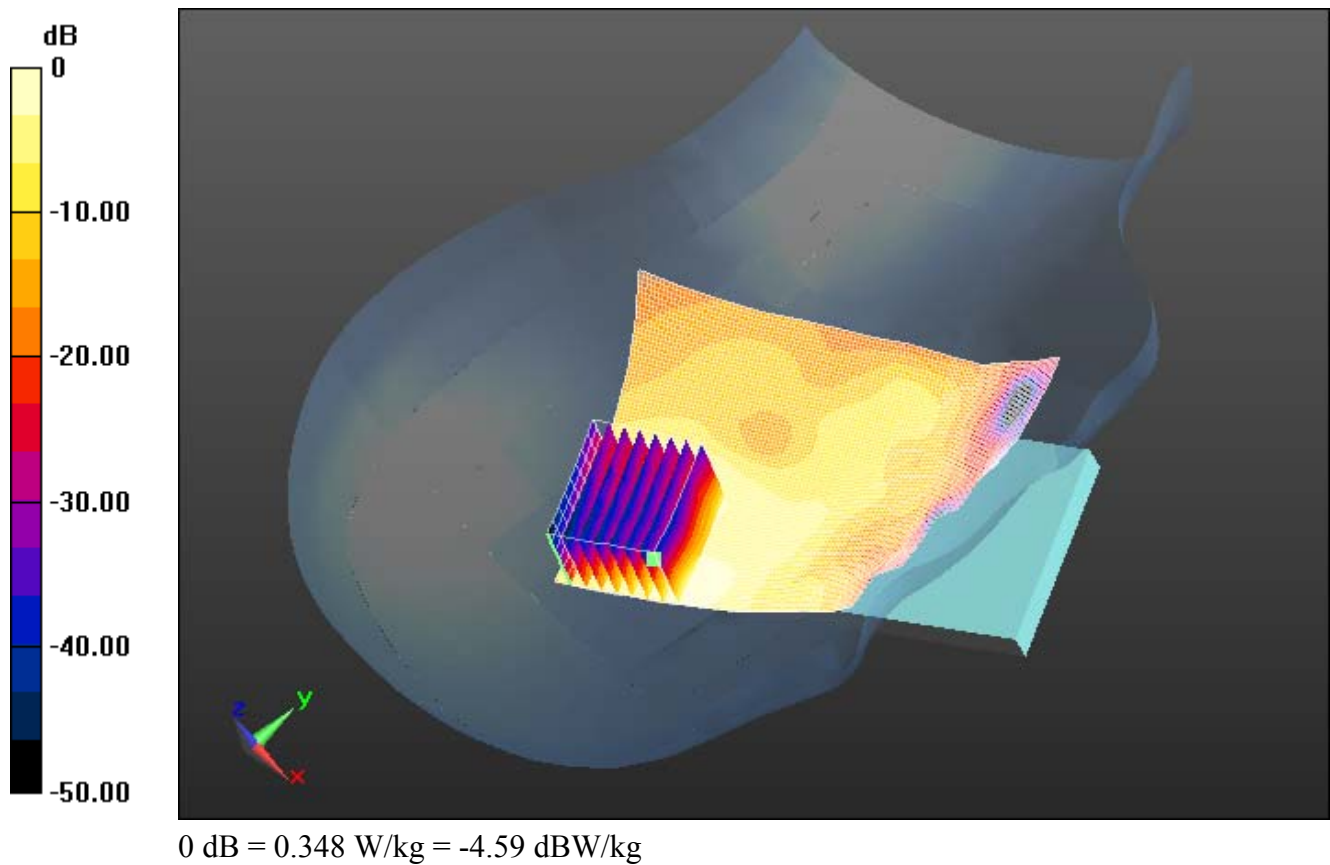
Peak SAR (extrapolated) = 0.846 W/kg

SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.152 W/kg

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

Maximum value of SAR (measured) = 0.353 W/kg

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Date/Time: 1/5/2013 1:46:28 AM

Test Laboratory: RIM Testing Services

RightHandSide_Tilt_802.11b

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

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

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 38.429$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.6, 4.6, 4.6); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

Right-Hand-Side HSL/Tilt Position -

802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Area Scan

(81x111x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

Maximum value of SAR (interpolated) = 0.327 W/kg

Right-Hand-Side HSL/Tilt Position -

802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Zoom Scan

(8x8x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

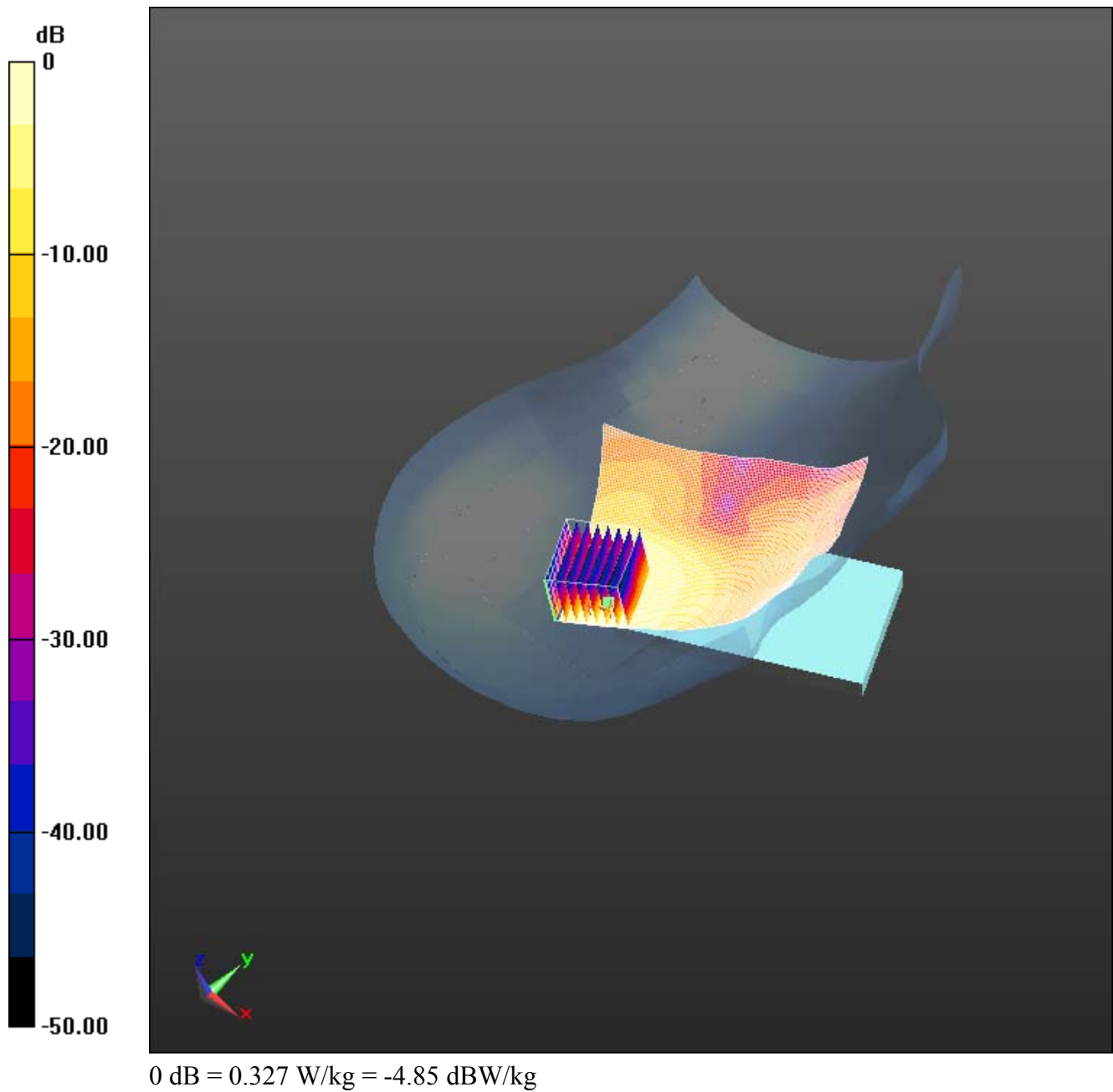
Reference Value = 10.533 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.872 W/kg

SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.155 W/kg

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

Maximum value of SAR (measured) = 0.364 W/kg



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Date/Time: 1/4/2013 9:11:43 PM

Test Laboratory: RIM Testing Services

LeftHandSide_802.11b

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

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

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 38.429$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.6, 4.6, 4.6); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

Left-Hand-Side HSL/Touch Position -

802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Area Scan

(81x111x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

Maximum value of SAR (interpolated) = 0.236 W/kg

Left-Hand-Side HSL/Touch Position -

802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 10.894 V/m; Power Drift = -0.04 dB

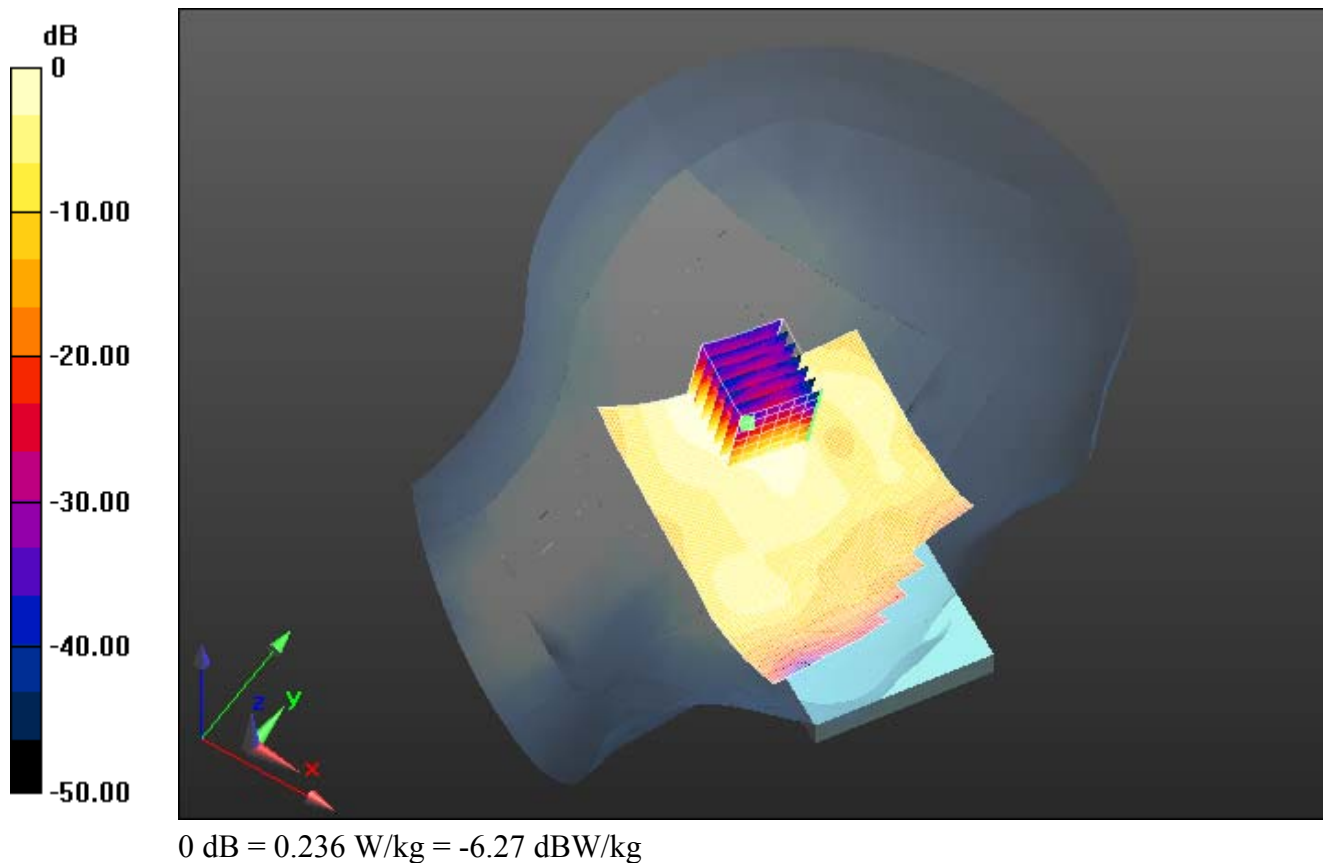
Peak SAR (extrapolated) = 0.411 W/kg

SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.114 W/kg

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

Maximum value of SAR (measured) = 0.226 W/kg

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Date/Time: 1/4/2013 10:09:04 PM

Test Laboratory: RIM Testing Services

LeftHandSide_Tilt_802.11b

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

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

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 38.429$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.6, 4.6, 4.6); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Left-Hand-Side HSL/Tilt Position -

802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Area Scan

(81x121x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

Maximum value of SAR (interpolated) = 0.337 W/kg

Left-Hand-Side HSL/Tilt Position -

802.11b_mid_chan_amb_temp_23.3C_liq_temp_20.7C/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 12.117 V/m; Power Drift = -0.19 dB

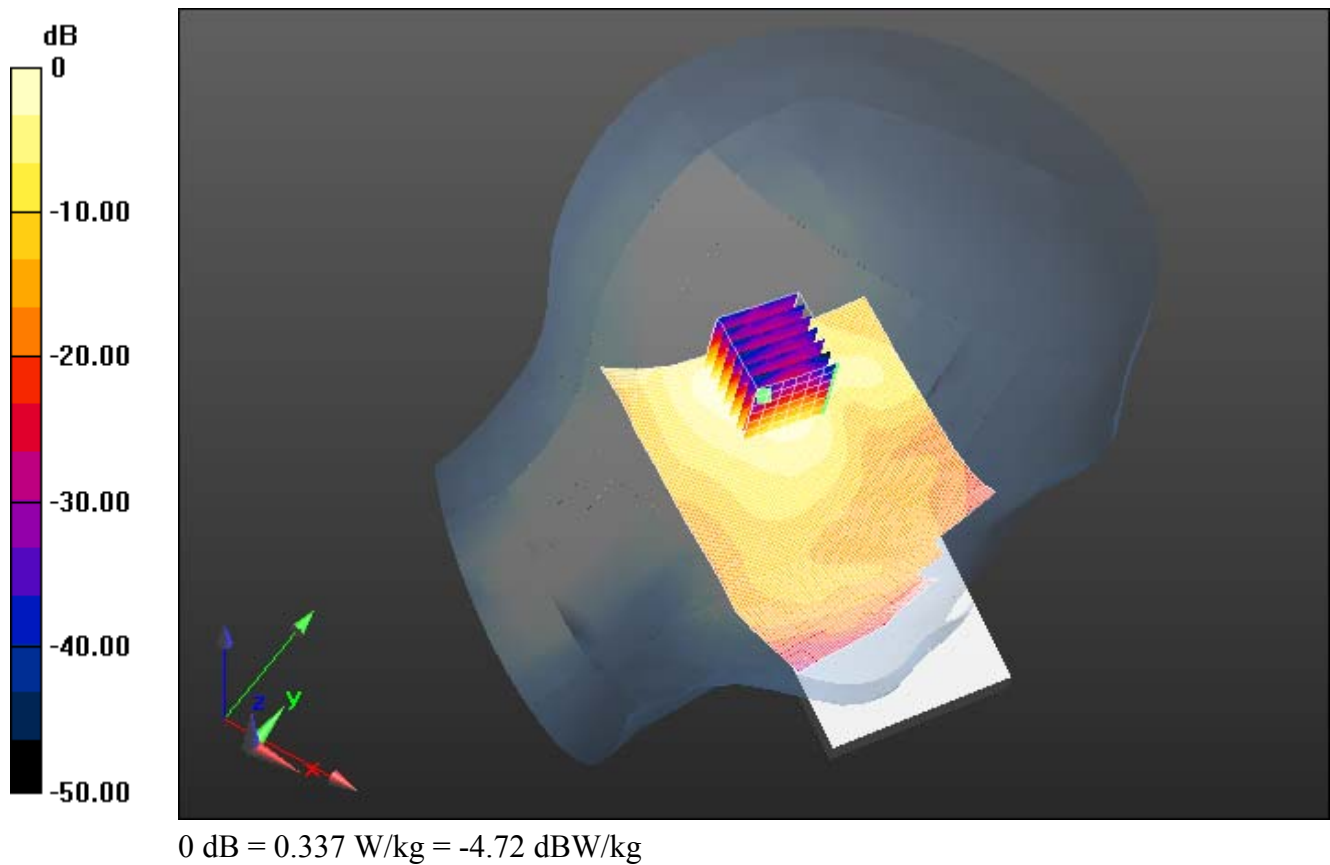
Peak SAR (extrapolated) = 0.595 W/kg

SAR(1 g) = 0.292 W/kg; SAR(10 g) = 0.154 W/kg

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

Maximum value of SAR (measured) = 0.316 W/kg

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Date/Time: 1/7/2013 4:00:07 PM

Test Laboratory: RIM Testing Services

Head_SAR_802.11b_2100mA_batt

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

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

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.744$ S/m; $\epsilon_r = 37.819$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.6, 4.6, 4.6); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Right-Hand-Side HSL/Touch Position -

802.11b_mid_chan_amb_temp_23.9C_liq_temp_21.5C/Area Scan

(81x121x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 10.418 V/m; Power Drift = 0.22 dB

Fast SAR: SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.156 W/kg

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

Maximum value of SAR (interpolated) = 0.321 W/kg

Right-Hand-Side HSL/Touch Position -

802.11b_mid_chan_amb_temp_23.9C_liq_temp_21.5C/Zoom Scan

(9x8x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 10.418 V/m; Power Drift = 0.22 dB

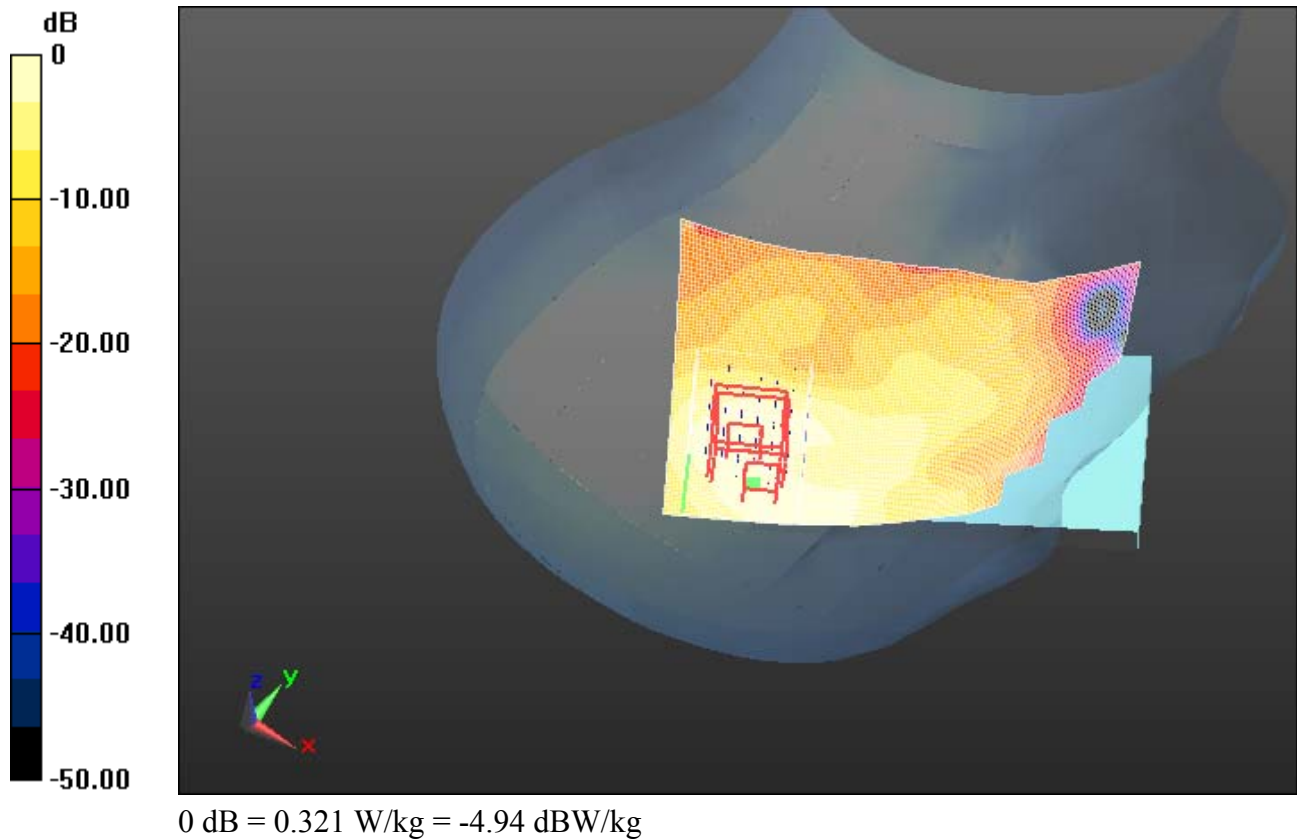
Peak SAR (extrapolated) = 0.816 W/kg

SAR(1 g) = 0.300 W/kg; SAR(10 g) = 0.148 W/kg

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

Maximum value of SAR (measured) = 0.330 W/kg

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Bluetooth

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Date: 1/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 25CF0AD9

Configuration: Right-Hand-Side HSL

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz

Medium Parameters used: $f=2441$ MHz; $\sigma = 1.750$ S/m; $\epsilon_r = 37.398$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF: (4.6,4.6,4.6); Calibrated: 11/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL/Touch Position -

Bluetooth_mid_chan_amb_temp_23.8C_liq_temp_21.1C/Area Scan (81x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 0.401 V/m; **Power Drift = -0.343 dB**

Right-Hand-Side HSL/Touch Position -

Bluetooth_mid_chan_amb_temp_23.8C_liq_temp_21.1C/Zoom Scan (41x36x36)/Cube 0:

Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

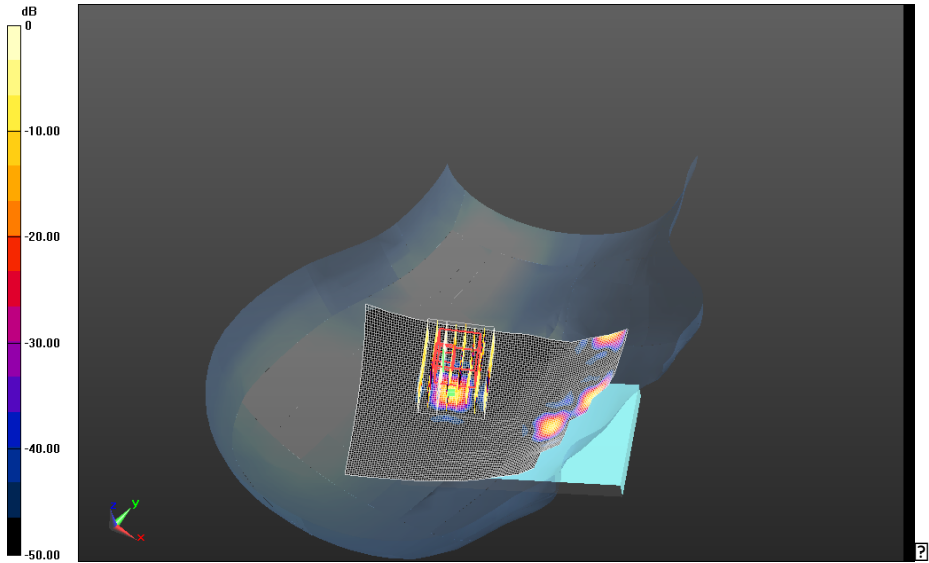
Reference Value = 0.401 V/m; **Power Drift = -0.343 dB**

Averaged SAR: SAR(1g) = 0.000141 W/kg; SAR(10g) = 0.0000377 W/kg

Maximum value of SAR (interpolated) = 0.00501 W/kg

Field decay constant of 3.3 mm.

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0 dB = 0.00501 W/kg = -23.00 dBW/kg

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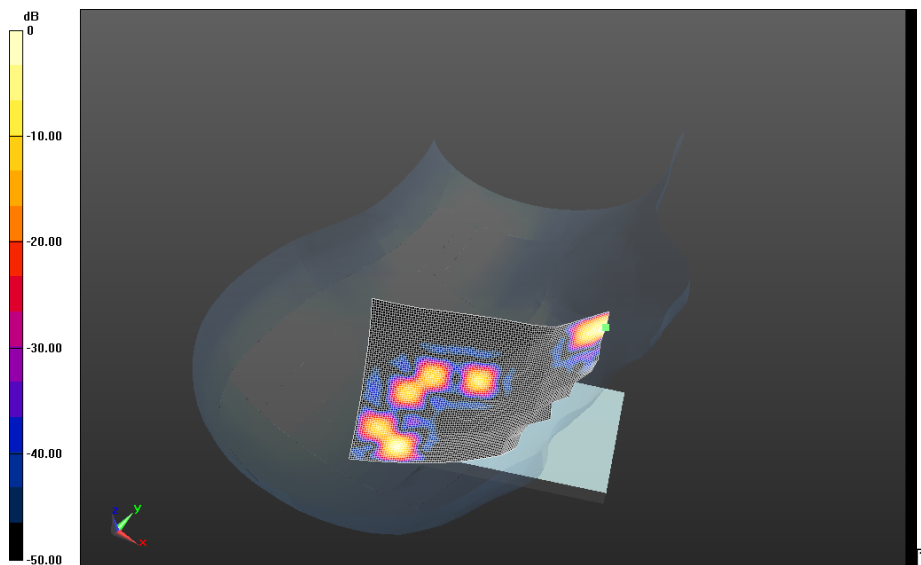
Right-Hand-Side HSL/Tilt Position -

Bluetooth_mid_chan_amb_temp_23.5C_liq_temp_21.1C/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 0.658 V/m; **Power Drift = 0.353 dB**

Fast SAR: SAR(1g) = 0.000617 W/kg; SAR(10g) = 0.000160 W/kg; Secondary SAR(1g) = 0.000165 W/kg

Maximum value of SAR (interpolated) = 0.00405 W/kg



0 dB = 0.00501 W/kg = -23.00 dBW/kg

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Date: 1/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 25CF0AD9

Configuration: Left-Hand-Side HSL

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz

Medium Parameters used: $f=2441$ MHz; $\sigma = 1.750$ S/m; $\epsilon_r = 37.398$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF: (4.6,4.6,4.6); Calibrated: 11/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Left-Hand-Side HSL/Touch Position -

Bluetooth_mid_chan_amb_temp_23.8C_liq_temp_21.1C/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 0.346 V/m; **Power Drift = 2.436 dB**

Left-Hand-Side HSL/Touch Position -

Bluetooth_mid_chan_amb_temp_23.8C_liq_temp_21.1C/Zoom Scan (56x41x36)/Cube 0:

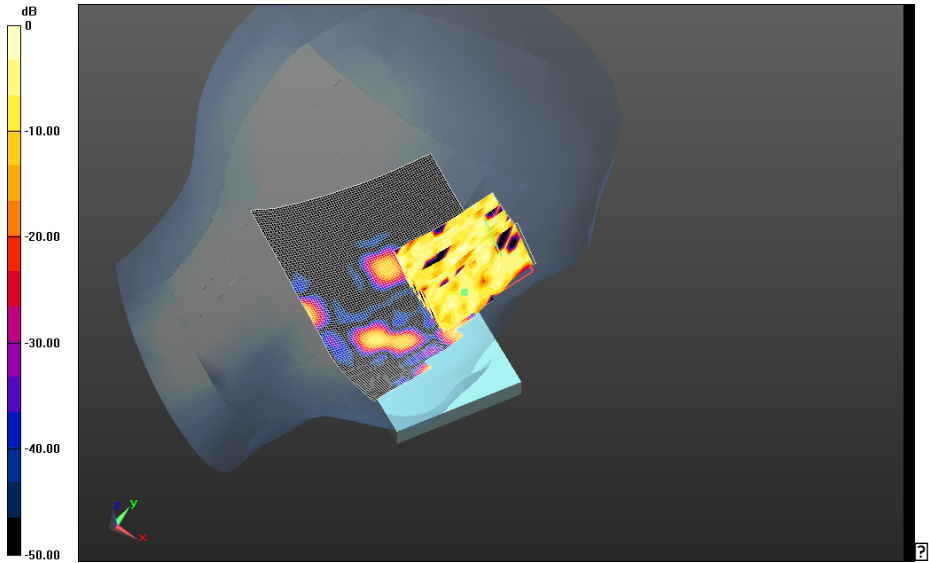
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 0.346 V/m; **Power Drift = 2.436 dB**

Averaged SAR: SAR(1g) = 0.000359 W/kg; SAR(10g) = 0.0000953 W/kg

Maximum value of SAR (interpolated) = 0.00785 W/kg

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0 dB = 0.00785 W/kg = -21.05 dBW/kg

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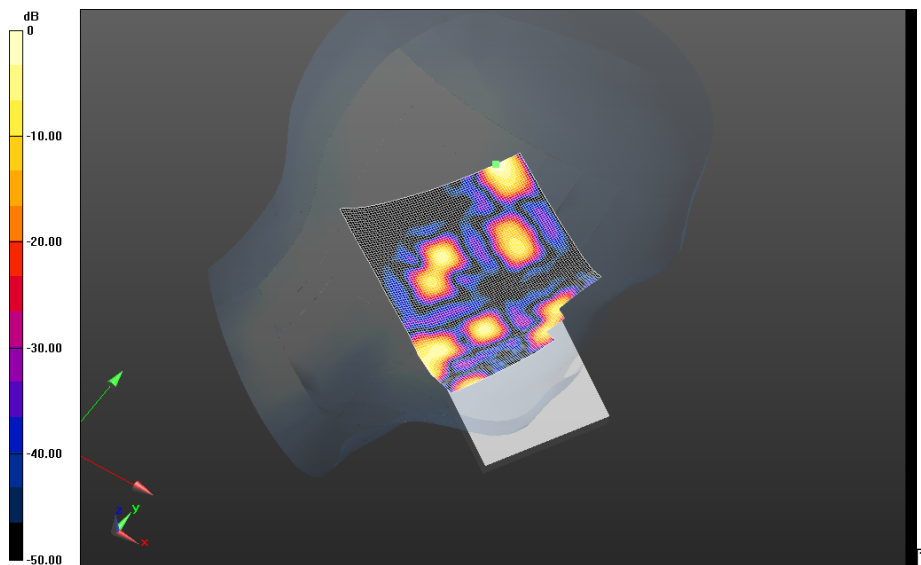
Left-Hand-Side HSL/Tilt Position -

Bluetooth_mid_chan_amb_temp_23.8C_liq_temp_21.1C/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 0.484 V/m; **Power Drift = -0.483 dB**

Fast SAR: SAR(1g) = 0.000827 W/kg; SAR(10g) = 0.000151 W/kg; Secondary SAR(1g) = 0.000412 W/kg

Maximum value of SAR (interpolated) = 0.00330 W/kg



0 dB = 0.00785 W/kg = -21.05 dBW/kg

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Date: 2/27/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2668C71D

Configuration: Right-Hand-Side HSL 802.11b Rev 3-03

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

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.767$ S/m; $\epsilon_r = 37.742$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL/Touch Position -

802.11b_mid_chan_amb_temp_23.6C_liq_temp_20.5C/Area Scan (81x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.292 W/kg

Right-Hand-Side HSL/Touch Position -

802.11b_mid_chan_amb_temp_23.6C_liq_temp_20.5C/Zoom Scan (36x31x36)/Cube 0:

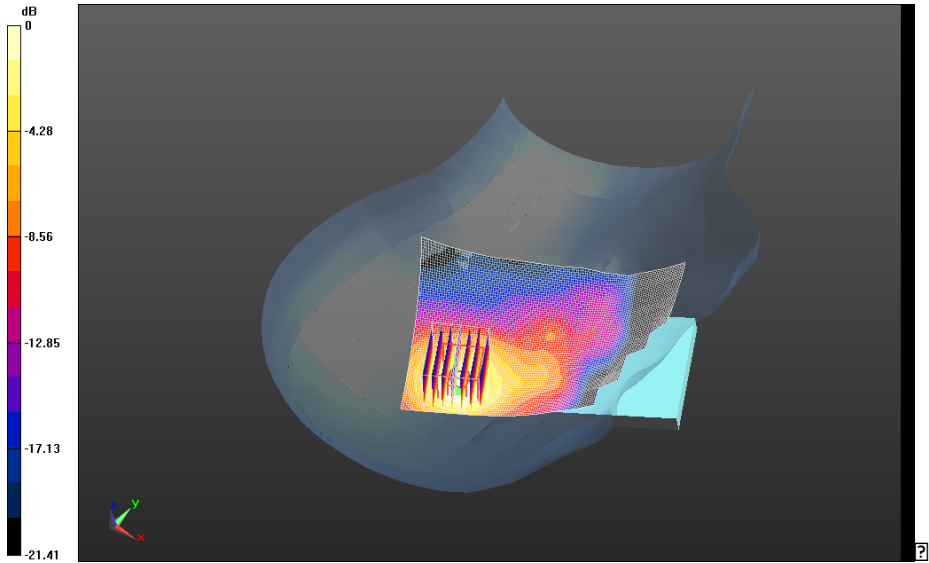
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 8.024 V/m; **Power Drift = 0.450 dB**

Averaged SAR: SAR(1g) = 0.229 W/kg; SAR(10g) = 0.112 W/kg

Maximum value of SAR (interpolated) = 0.504 W/kg

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0 dB = 0.297 W/kg = -5.27 dBW/kg

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802.11a

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Date/Time: 1/14/2013 10:36:51 PM

Test Laboratory: RIM Testing Services

RHS_Head_SAR_802.11a_5200MHz_touch_chan48

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11a ; Communication System Band: Low and Mid Bands;
Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005
Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 4.727 \text{ S/m}$; $\epsilon_r = 34.212$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

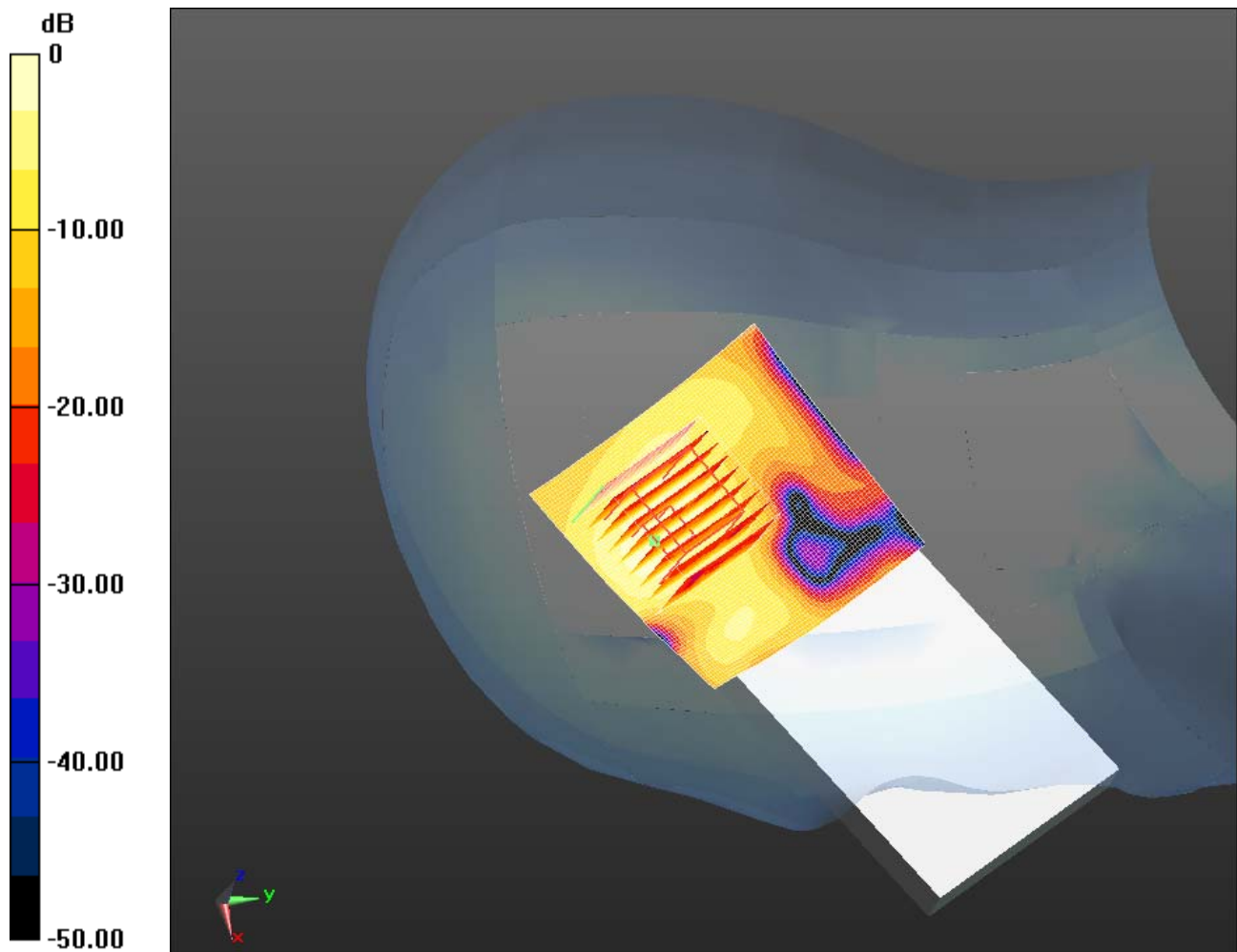
DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.73, 4.73, 4.73); Calibrated: 11/14/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Right-Hand-Side HSL 5200 MHz/Touch Position -
802.11a_chan48_low_band_amb_temp_23.2C_liq_temp_21.3C/Area Scan
(81x71x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.646 W/kg

Right-Hand-Side HSL 5200 MHz/Touch Position -
802.11a_chan48_low_band_amb_temp_23.2C_liq_temp_21.3C/Zoom Scan
(10x9x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 2.292 V/m ; Power Drift = 0.65 dB
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 0.333 W/kg ; SAR(10 g) = 0.120 W/kg
Maximum value of SAR (measured) = 0.637 W/kg

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0 dB = 0.637 W/kg = -1.96 dBW/kg

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Date/Time: 1/14/2013 11:46:30 PM

Test Laboratory: RIM Testing Services

RHS_Head_SAR_802.11a_5200MHz_touch_chan52

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11a ; Communication System Band: Low and Mid Bands;
Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005
Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 4.756 \text{ S/m}$; $\epsilon_r = 34.182$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

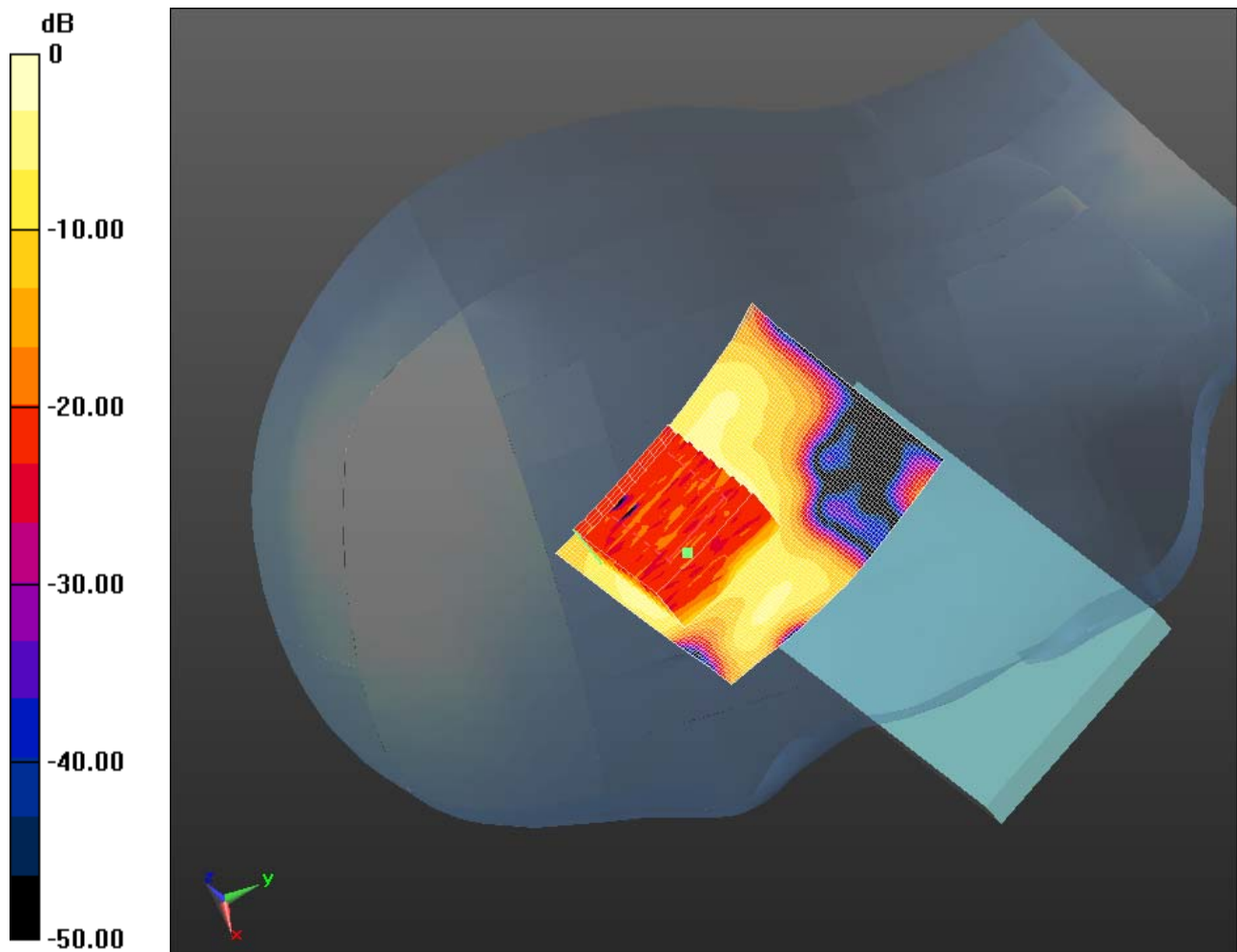
DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.73, 4.73, 4.73); Calibrated: 11/14/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Right-Hand-Side HSL 5200 MHz/Touch Position -
802.11a_chan52_low_band_amb_temp_23.9C_liq_temp_21.4C/Area Scan
(81x71x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.657 W/kg

Right-Hand-Side HSL 5200 MHz/Touch Position -
802.11a_chan52_low_band_amb_temp_23.9C_liq_temp_21.4C/Zoom Scan
(10x9x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 2.766 V/m; Power Drift = 0.23 dB
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.123 W/kg
Maximum value of SAR (measured) = 0.638 W/kg

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0 dB = 0.638 W/kg = -1.95 dBW/kg

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Date/Time: 1/14/2013 8:59:12 PM

Test Laboratory: RIM Testing Services

RHS_Head_SAR_802.11a_5500MHz_touch_chan104

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11a ; Communication System Band: Low and Mid Bands;
Frequency: 5520 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005
Medium parameters used: $f = 5520 \text{ MHz}$; $\sigma = 5.123 \text{ S/m}$; $\epsilon_r = 34.126$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

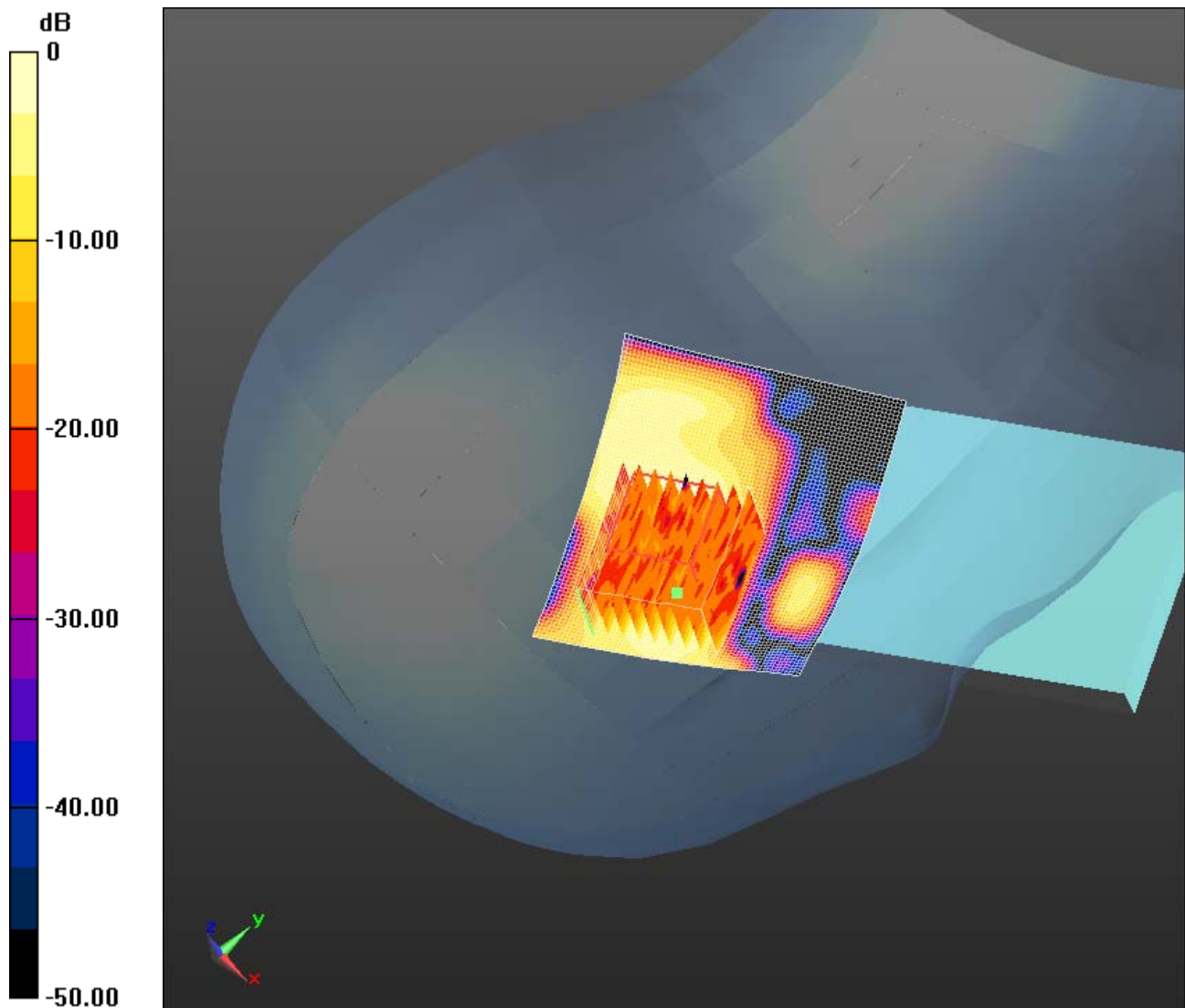
DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.28, 4.28, 4.28); Calibrated: 11/14/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Right-Hand-Side HSL 5500 MHz/Touch Position -
802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_22.6C/Area
Scan (81x71x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.444 W/kg

Right-Hand-Side HSL 5500 MHz/Touch Position -
802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_22.6C/Zoom
Scan (10x9x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 4.019 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.835 W/kg
SAR(1 g) = 0.211 W/kg; SAR(10 g) = 0.068 W/kg
Maximum value of SAR (measured) = 0.452 W/kg

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0 dB = 0.452 W/kg = -3.45 dBW/kg

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Date/Time: 1/11/2013 3:15:15 PM

Test Laboratory: RIM Testing Services

RHS_Head_SAR_802.11a_5800MHz_touch_chan149

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11a ; Communication System Band: 802.11a; Frequency: 5745 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.438$ S/m; $\epsilon_r = 34.861$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.12, 4.12, 4.12); Calibrated: 11/14/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Right-Hand-Side HSL 5800 MHz/Touch Position -

802.11a_chan149_Upper_bandII_amb_temp_23.4C_liq_temp_22.6C/Area

Scan (101x151x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.501 W/kg

Right-Hand-Side HSL 5800 MHz/Touch Position -

802.11a_chan149_Upper_bandII_amb_temp_23.4C_liq_temp_22.6C

2/Zoom Scan (9x9x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

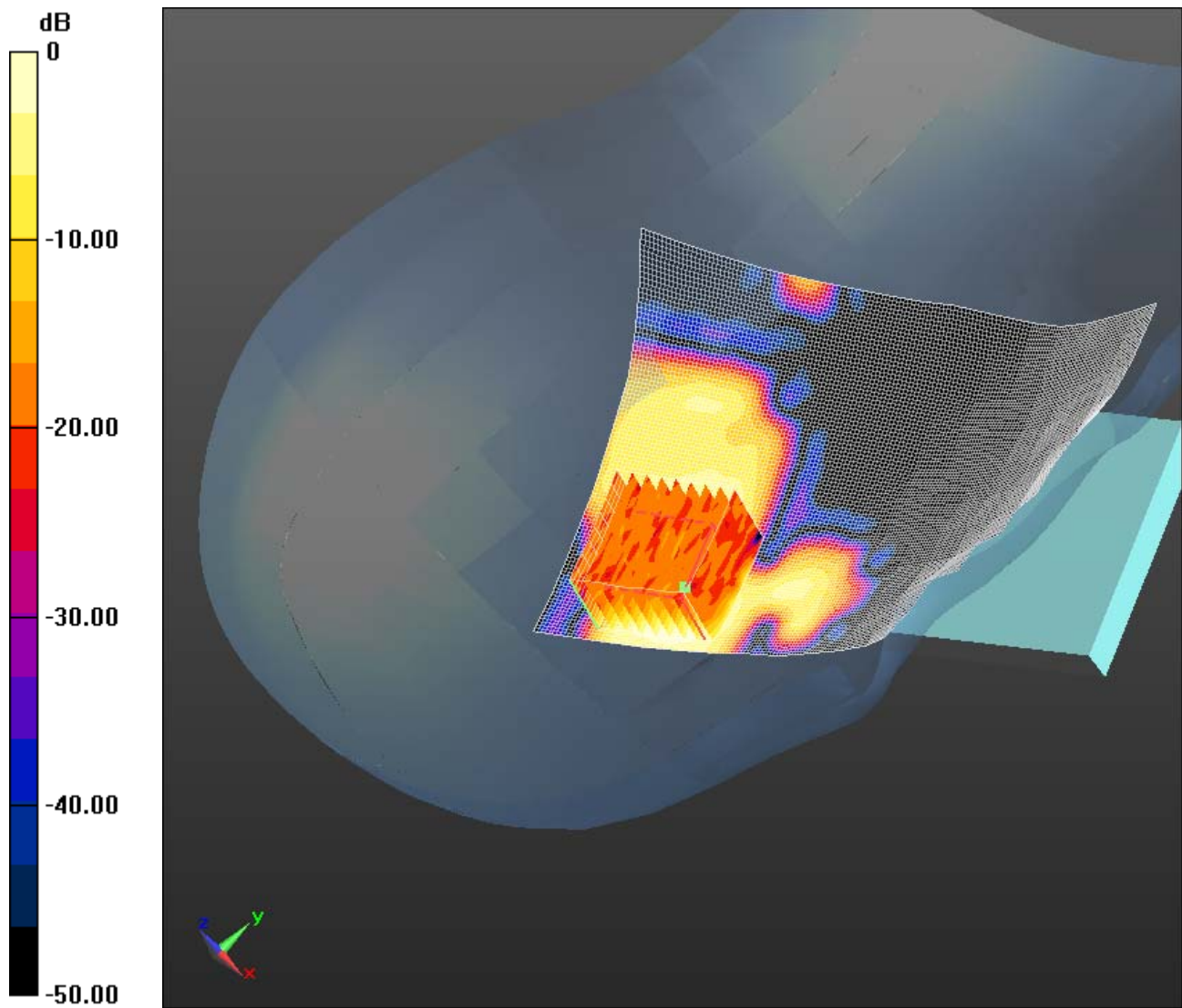
Reference Value = 9.576 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.073 W/kg

Maximum value of SAR (measured) = 0.441 W/kg

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0 dB = 0.441 W/kg = -3.56 dBW/kg

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Date/Time: 1/15/2013 12:40:46 AM

Test Laboratory: RIM Testing Services

RHS_Head_SAR_802.11a_5200MHz_tilted_chan52

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11a ; Communication System Band: Low and Mid Bands;
Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005
Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 4.756 \text{ S/m}$; $\epsilon_r = 34.182$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

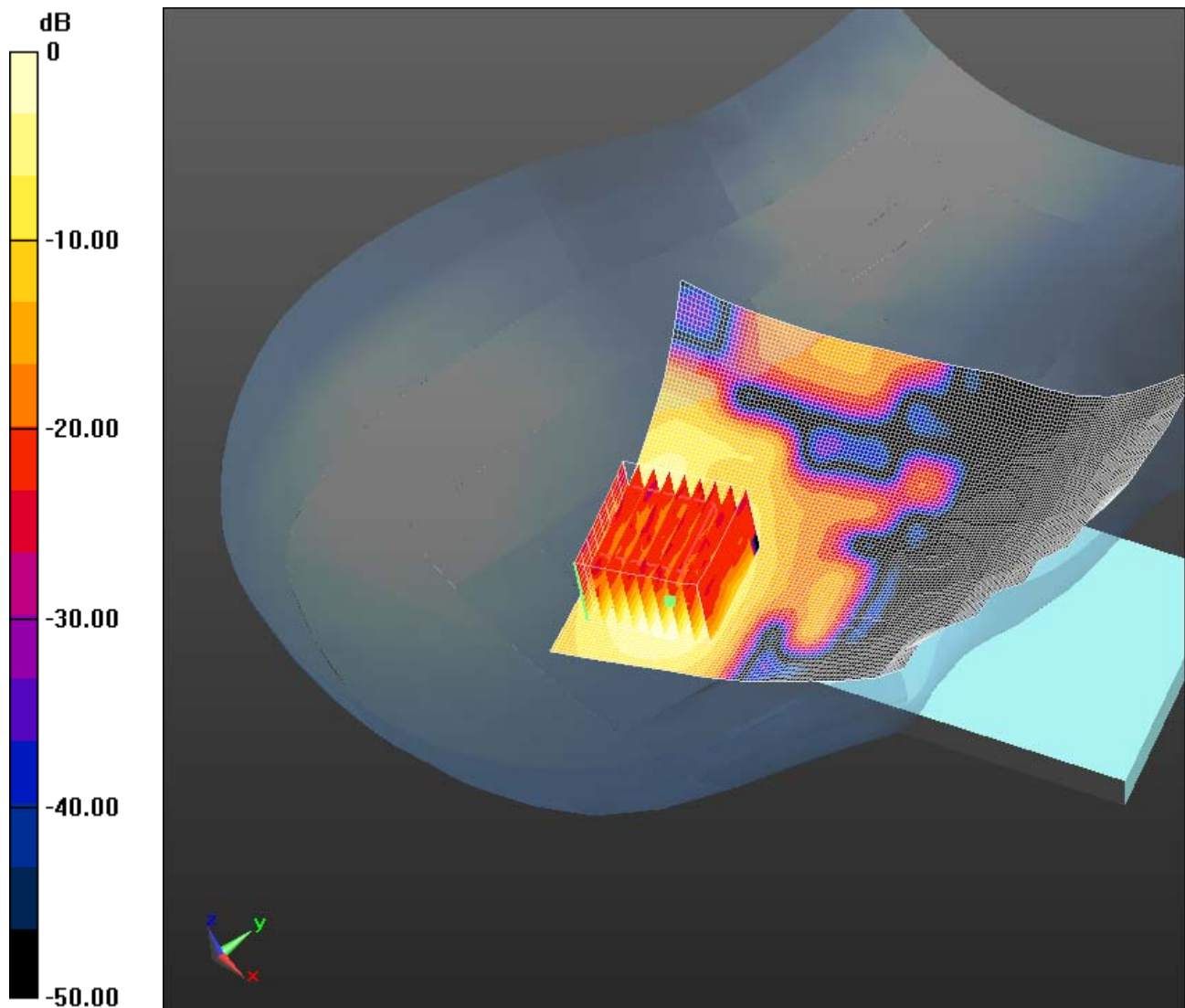
DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.73, 4.73, 4.73); Calibrated: 11/14/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Right-Hand-Side HSL 5200 MHz/Tilt Position -
802.11a_chan52_low_band_amb_temp_23.9C_liq_temp_21.4C/Area Scan
(101x141x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.767 W/kg

Right-Hand-Side HSL 5200 MHz/Tilt Position -
802.11a_chan52_low_band_amb_temp_23.9C_liq_temp_21.4C/Zoom Scan
(9x9x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 3.492 V/m; Power Drift = 0.65 dB
Peak SAR (extrapolated) = 1.55 W/kg
SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.144 W/kg
Maximum value of SAR (measured) = 0.765 W/kg

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0 dB = 0.765 W/kg = -1.16 dBW/kg

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Date/Time: 1/14/2013 4:28:17 PM

Test Laboratory: RIM Testing Services

LHS_Head_SAR_802.11a_5200MHz_touch_chan48

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11a ; Communication System Band: 802.11a 48;
Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005
Medium parameters used: $f = 5240 \text{ MHz}$; $\sigma = 4.727 \text{ S/m}$; $\epsilon_r = 34.212$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

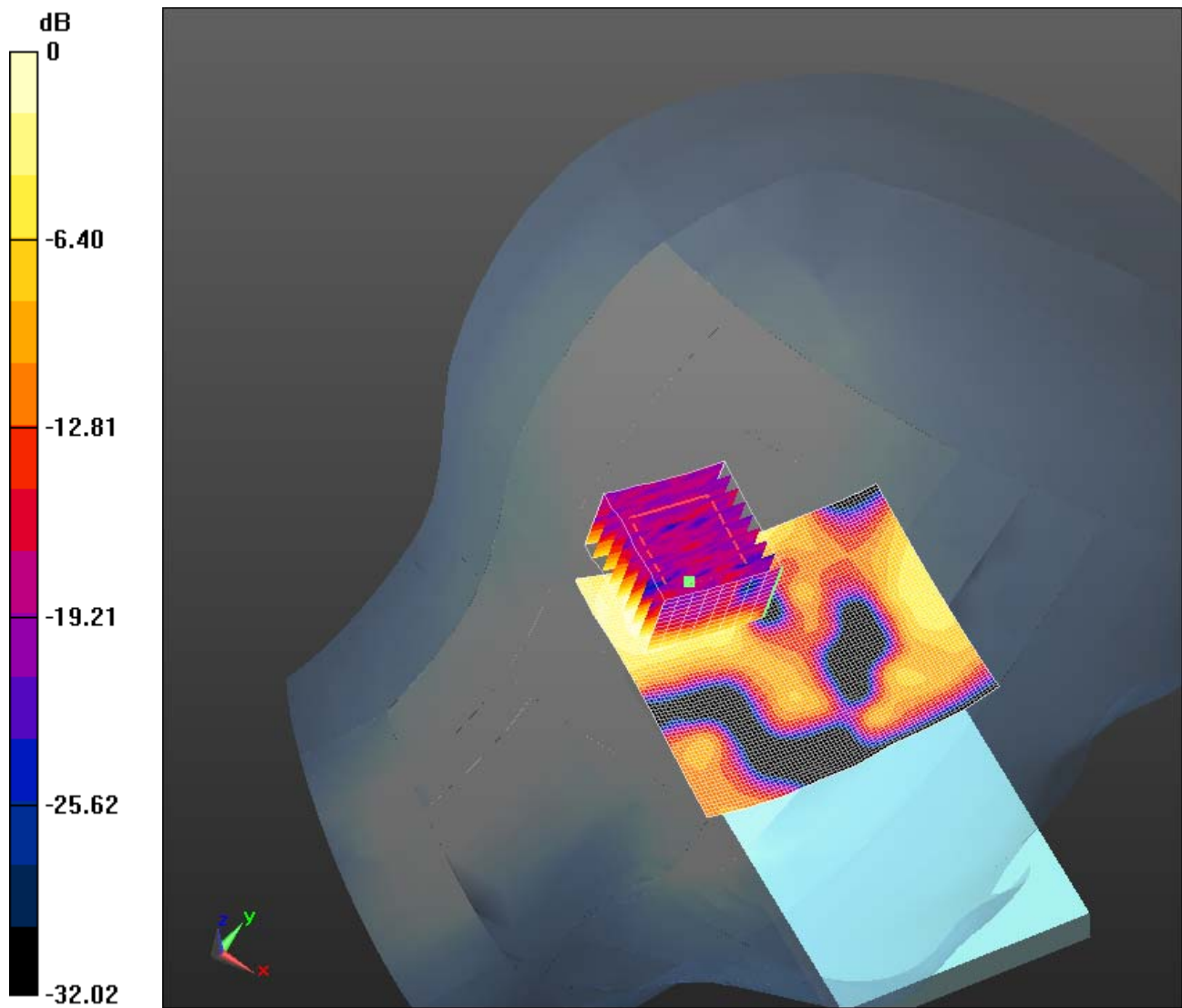
DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.73, 4.73, 4.73); Calibrated: 11/14/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Left-Hand-Side HSL 5200 MHz/Touch Position -
802.11a_chan48_low_band_amb_temp_24.3C_liq_temp_21.3C/Area Scan
(81x71x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.367 W/kg

Left-Hand-Side HSL 5200 MHz/Touch Position -
802.11a_chan48_low_band_amb_temp_24.3C_liq_temp_21.3C/Zoom Scan
(9x9x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 3.235 V/m ; Power Drift = 0.27 dB
Peak SAR (extrapolated) = 0.595 W/kg
SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.074 W/kg
Maximum value of SAR (measured) = 0.345 W/kg

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0 dB = 0.345 W/kg = -4.62 dBW/kg

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Date/Time: 1/14/2013 6:36:06 PM

Test Laboratory: RIM Testing Services

LHS_Head_SAR_802.11a_5200MHz_touch_chan52

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11a ; Communication System Band: Low and Mid Bands;
Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005
Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 4.756 \text{ S/m}$; $\epsilon_r = 34.182$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

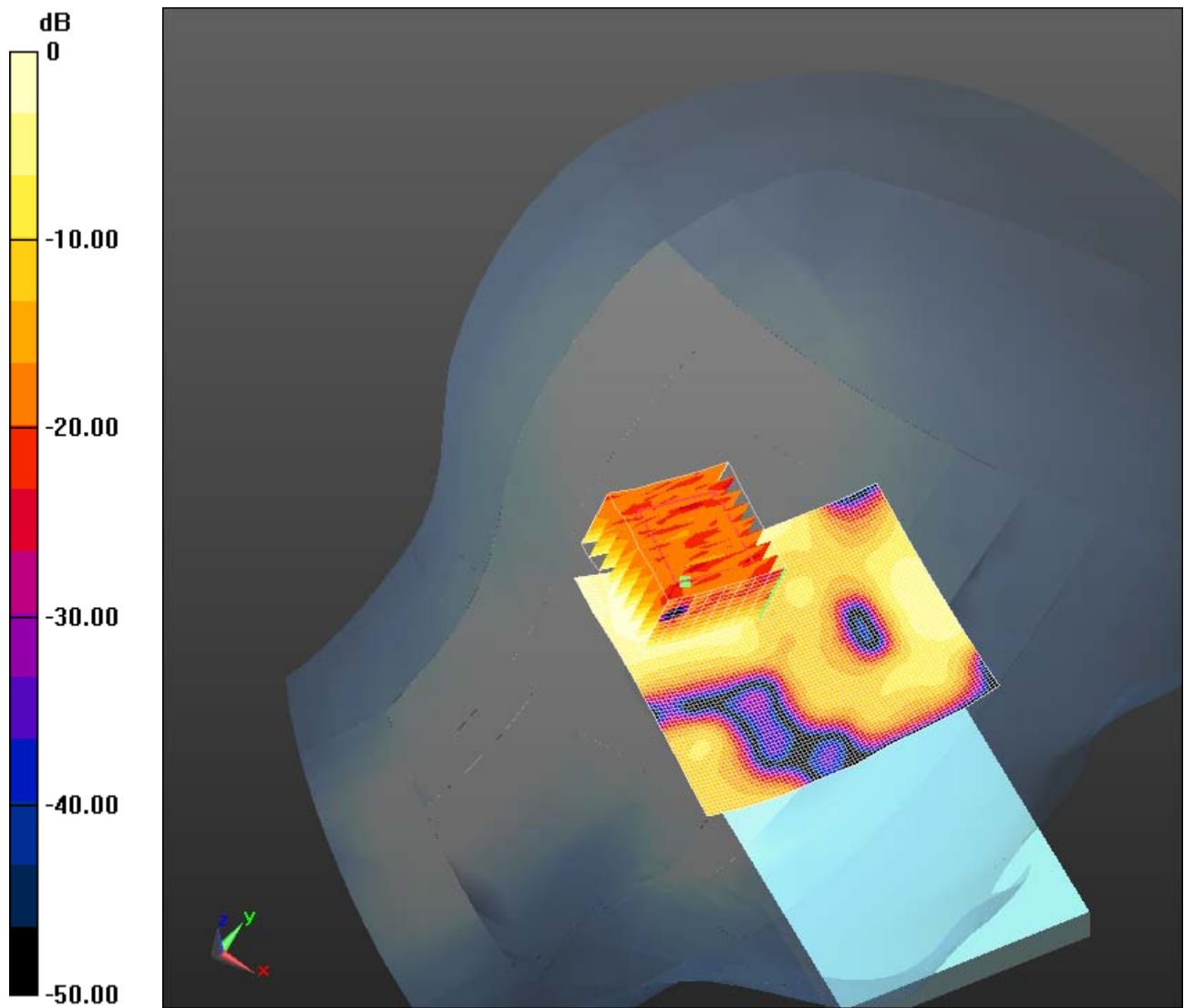
DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.73, 4.73, 4.73); Calibrated: 11/14/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

Left-Hand-Side HSL 5200 MHz/Touch Position -
802.11a_chan52_low_band_amb_temp_23.9C_liq_temp_21.3C/Area Scan
(81x71x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.393 W/kg

Left-Hand-Side HSL 5200 MHz/Touch Position -
802.11a_chan52_low_band_amb_temp_23.9C_liq_temp_21.3C/Zoom Scan
(9x9x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 3.844 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.737 W/kg
SAR(1 g) = 0.219 W/kg; SAR(10 g) = 0.083 W/kg
Maximum value of SAR (measured) = 0.388 W/kg

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0 dB = 0.388 W/kg = -4.11 dBW/kg

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Date/Time: 1/14/2013 7:21:49 PM

Test Laboratory: RIM Testing Services

LHS_Head_SAR_802.11a_5500MHz_touch_chan104

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11a ; Communication System Band: Low and Mid Bands;
Frequency: 5520 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005
Medium parameters used: $f = 5520 \text{ MHz}$; $\sigma = 5.123 \text{ S/m}$; $\epsilon_r = 34.126$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

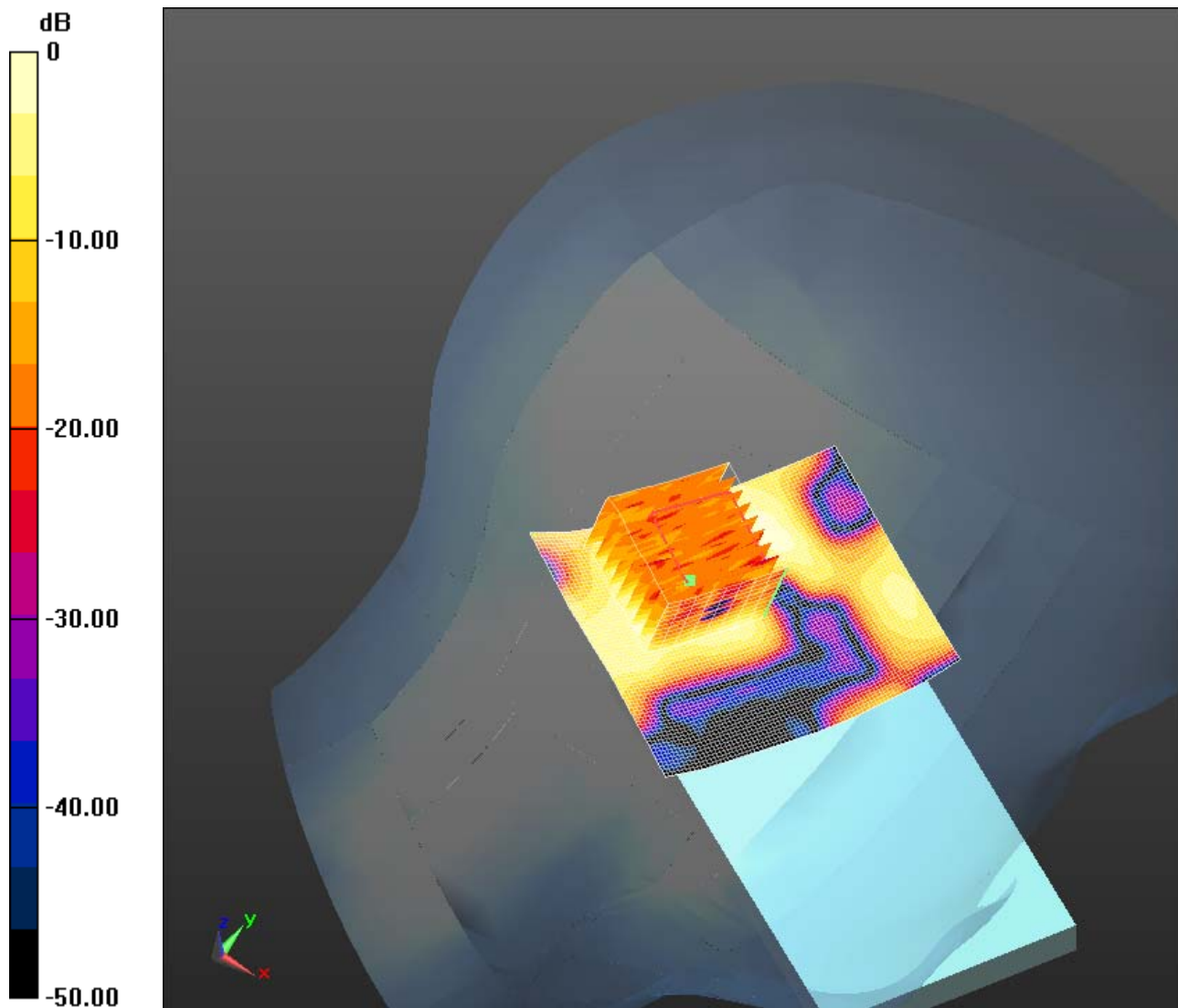
DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.28, 4.28, 4.28); Calibrated: 11/14/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Left-Hand-Side HSL 5500 MHz/Touch Position -
802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_21.3C/Area
Scan (81x71x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.318 W/kg

Left-Hand-Side HSL 5500 MHz/Touch Position -
802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_21.3C/Zoom
Scan (9x9x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 6.009 V/m; Power Drift = 0.49 dB
Peak SAR (extrapolated) = 0.553 W/kg
SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.061 W/kg
Maximum value of SAR (measured) = 0.309 W/kg

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0 dB = 0.309 W/kg = -5.10 dBW/kg

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Date/Time: 1/14/2013 12:05:34 PM

Test Laboratory: RIM Testing Services

LHS_Head_SAR_802.11a_5800MHz_touch_chan149

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11a ; Communication System Band: 802.11a; Frequency: 5745 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 5.438 \text{ S/m}$; $\epsilon_r = 34.861$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.12, 4.12, 4.12); Calibrated: 11/14/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Left-Hand-Side HSL 5800 MHz/Touch Position -

802.11a_chan149_Upper_bandII_amb_temp_24C_liq_temp_22.7C/Area

Scan (101x151x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.228 W/kg

Left-Hand-Side HSL 5800 MHz/Touch Position -

802.11a_chan149_Upper_bandII_amb_temp_23.4C_liq_temp_22.6C

2/Zoom Scan (10x9x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

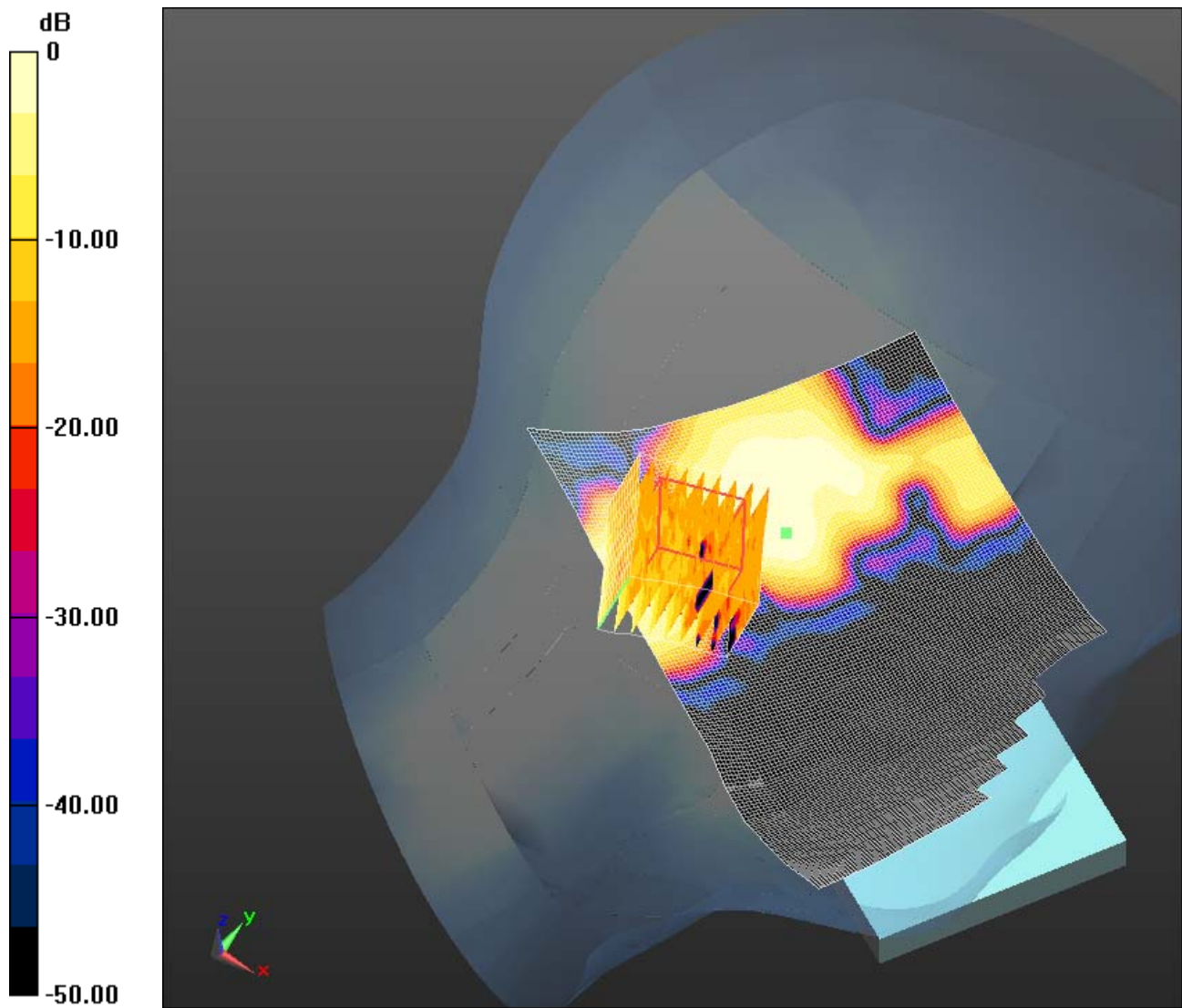
Reference Value = 4.341 V/m; Power Drift = 0.75 dB

Peak SAR (extrapolated) = 0.298 W/kg

SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.026 W/kg

Maximum value of SAR (measured) = 0.179 W/kg

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0 dB = 0.179 W/kg = -7.47 dBW/kg

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Date/Time: 1/15/2013 2:06:52 AM

Test Laboratory: RIM Testing Services

LHS_Head_SAR_802.11a_5200MHz_tilted_chan52

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11a ; Communication System Band: Low and Mid Bands;
Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005
Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 4.756 \text{ S/m}$; $\epsilon_r = 34.182$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.73, 4.73, 4.73); Calibrated: 11/14/2012;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Left-Hand-Side HSL 5200 MHz/Tilt Position -

802.11a_chan52_low_band_amb_temp_23.4C_liq_temp_21.3C/Area Scan

(101x151x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.461 W/kg

Left-Hand-Side HSL 5200 MHz/Tilt Position -

802.11a_chan52_low_band_amb_temp_23.4C_liq_temp_21.3C/Zoom Scan

(8x8x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

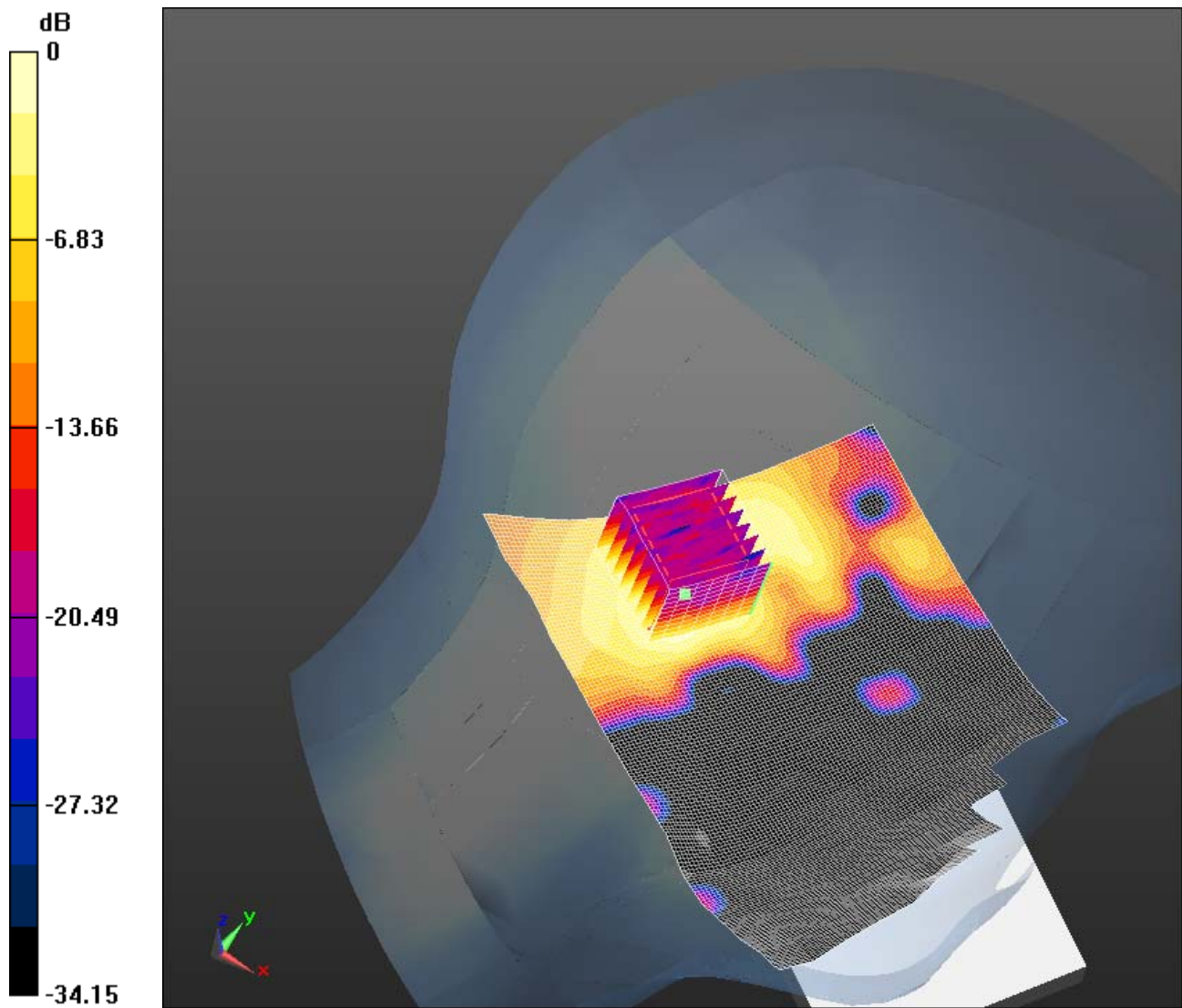
Reference Value = 6.210 V/m; Power Drift = 0.38 dB

Peak SAR (extrapolated) = 0.886 W/kg

SAR(1 g) = 0.259 W/kg; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.474 W/kg

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0 dB = 0.474 W/kg = -3.24 dBW/kg

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Date/Time: 1/15/2013 10:17:57 AM

Test Laboratory: RIM Testing Services

RHS_Head_SAR_802.11a_5200MHz_tilted_chan52_2100mA

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 25CF0AD9

Communication System: 802.11a ; Communication System Band: Low and Mid Bands;
Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005
Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 4.756 \text{ S/m}$; $\epsilon_r = 34.182$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

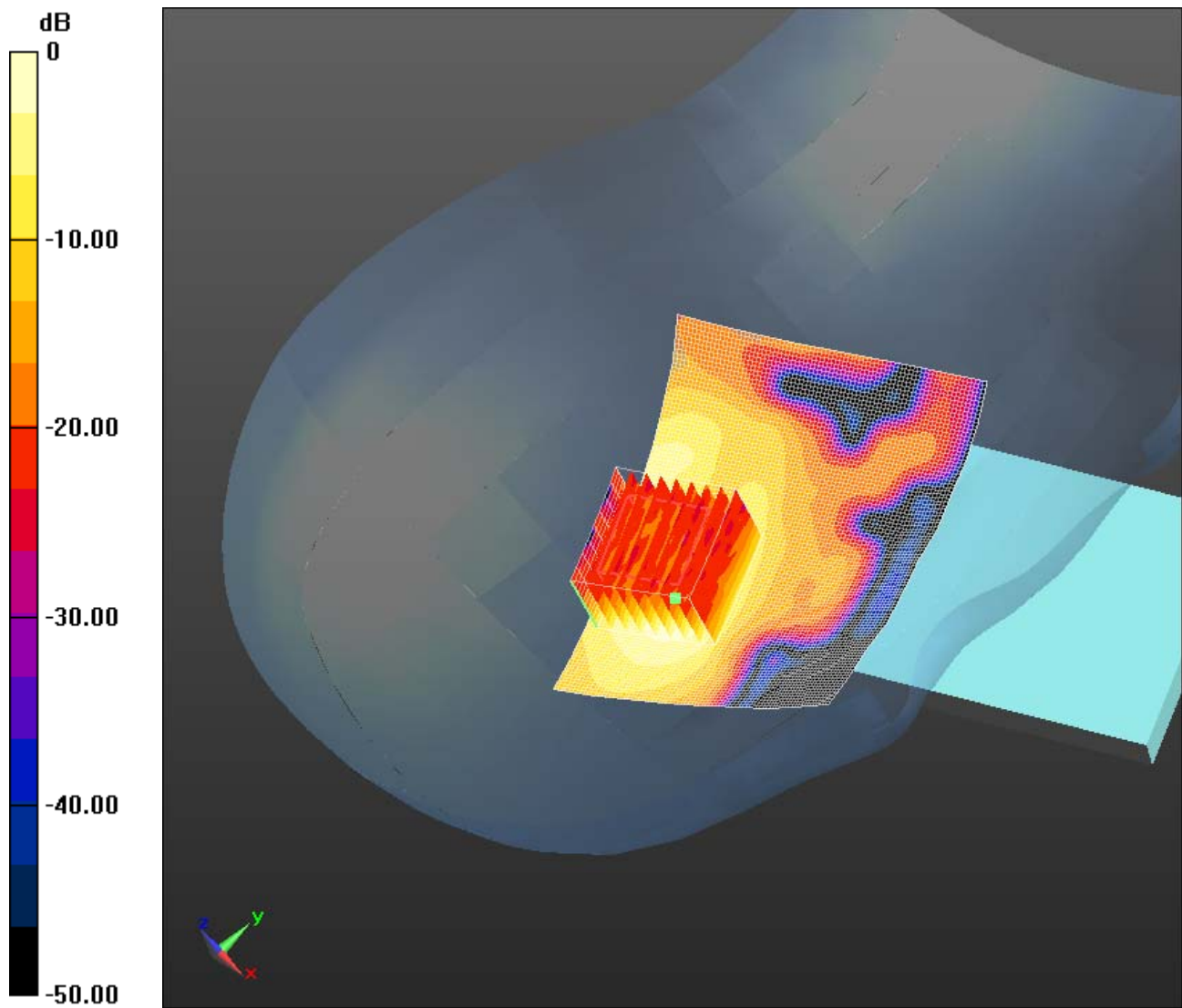
DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.73, 4.73, 4.73); Calibrated: 11/14/2012;
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 23.0$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Right-Hand-Side HSL 5200 MHz/Tilt Position -
802.11a_2100mA_batt_chan52_low_band_amb_temp_23.9C_liq_temp_21.4C 2/Area Scan (101x81x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.743 W/kg

Right-Hand-Side HSL 5200 MHz/Tilt Position -
802.11a_2100mA_batt_chan52_low_band_amb_temp_23.9C_liq_temp_21.4C 2/Zoom Scan (9x9x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 13.749 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.143 W/kg
Maximum value of SAR (measured) = 0.714 W/kg

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0 dB = 0.714 W/kg = -1.46 dBW/kg

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Date: 2/25/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2668C71D

Configuration: Right-Hand-Side HSL 802.11a 5200 MHz Rev3-03

Communication System: 802.11a ; Communication System Band: Low and Mid Bands;

Frequency: 5260 MHz

Medium Parameters used: $f=5260$ MHz; $\sigma = 4.809$ S/m; $\epsilon_r = 34.502$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF: (4.73,4.73,4.73); Calibrated: 11/14/2012;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Right-Hand-Side HSL 5200 MHz/Tilt Position -

802.11a_chan52_low_band_amb_temp_24.2C_liq_temp_21.7C/Area Scan (101x141x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.207 W/kg

Right-Hand-Side HSL 5200 MHz/Tilt Position -

802.11a_chan52_low_band_amb_temp_24.2C_liq_temp_21.7C/Zoom Scan (36x36x61)/Cube

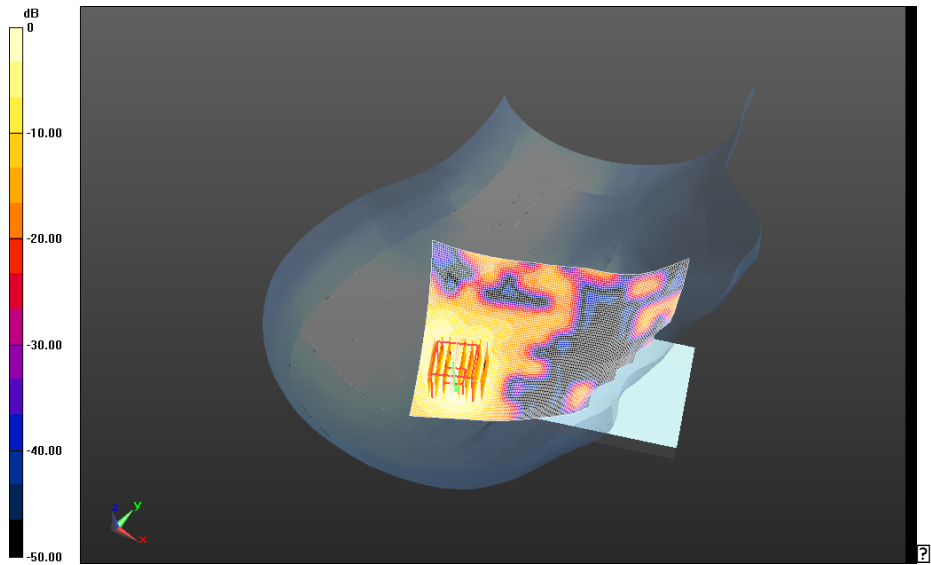
0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 2.117 V/m; **Power Drift = 0.782 dB**

Averaged SAR: SAR(1g) = 0.103 W/kg; SAR(10g) = 0.0363 W/kg

Maximum value of SAR (interpolated) = 0.451 W/kg

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0 dB = 0.192 W/kg = -7.17 dBW/kg

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Z axis plot for the worst case head configuration

