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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOT SPOT CONFIGURATION

		Revision History	
Rev. Number	Date	Changes	
Initial	May 24, 2013	-----	
Rev 2	Dec 16, 2014	Added SAR plots for 802.11a Hotspot mode 1. Page 160-166	

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LTE 17

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Date/Time: 12/17/2012 2:23:57 PM

Test Laboratory: RIM Testing Services

MHS_Body_SAR_LTE_17_10mm_Back

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

Communication System: LTE_Band 17; Frequency: 710 MHz

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.917 \text{ mho/m}$; $\epsilon_r = 54.177$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.4C_Liq_Temp_21.8C/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 23.742 V/m; Power Drift = -0.09 dB

Fast SAR: SAR(1 g) = 0.773 mW/g; SAR(10 g) = 0.526 mW/g

Maximum value of SAR (interpolated) = 0.886 mW/g

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.4C_Liq_Temp_21.8C/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.742 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.1120

SAR(1 g) = 0.748 mW/g; SAR(10 g) = 0.504 mW/g

Maximum value of SAR (measured) = 0.858 mW/g

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_17_QPSK_RB25_Offset25_Amb_Temp_23.4C_Liq_Temp_21.9C/

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

Reference Value = 20.366 V/m; Power Drift = 0.06 dB

Fast SAR: SAR(1 g) = 0.593 mW/g; SAR(10 g) = 0.411 mW/g

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

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Headset_Device_Back_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 21.645 V/m; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 0.677 mW/g; SAR(10 g) = 0.467 mW/g

Maximum value of SAR (interpolated) = 0.784 mW/g

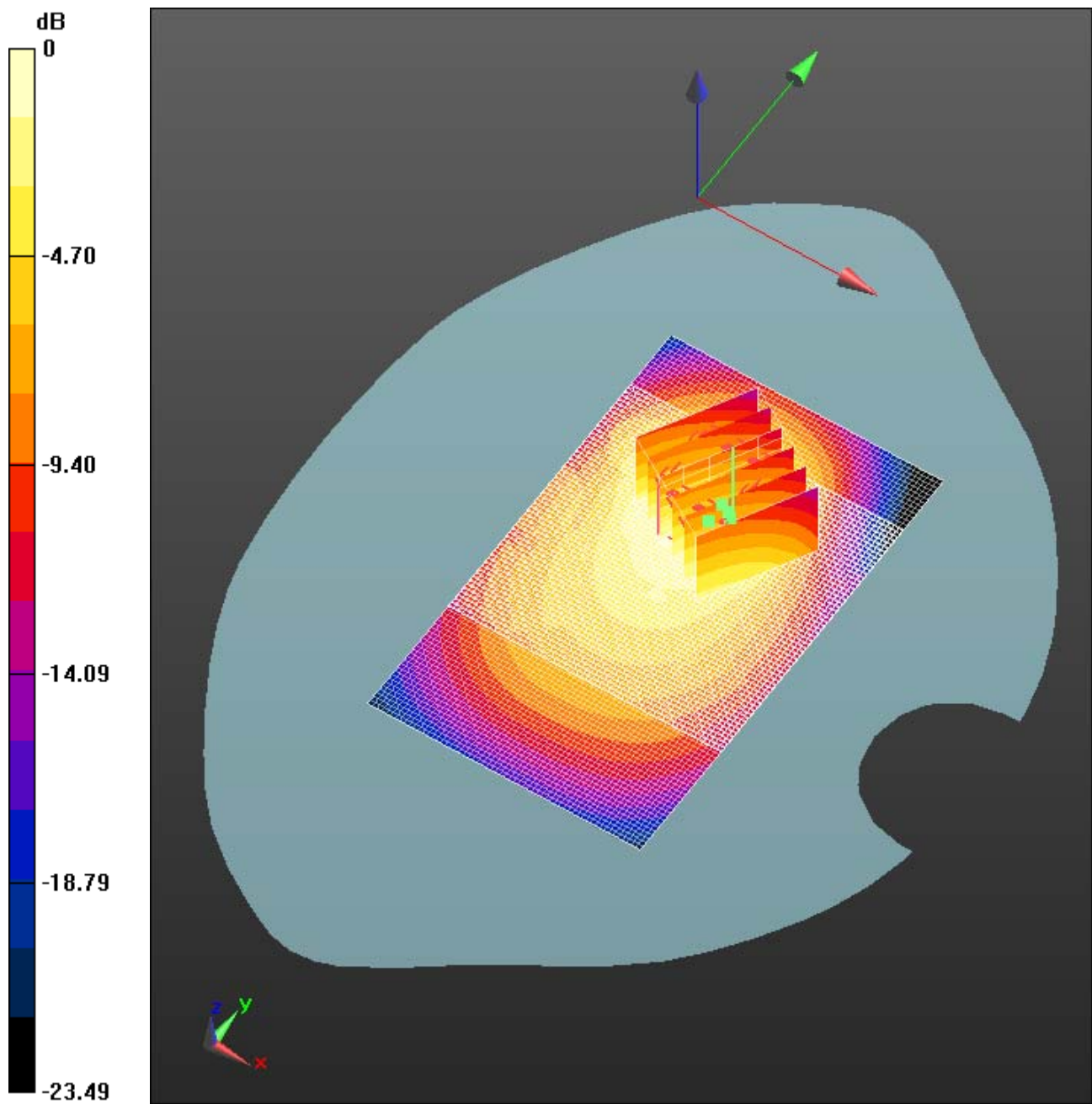
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.4C_Liq_Temp_22.3C_2100mA_batt/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 21.943 V/m; Power Drift = -0.0059 dB

Fast SAR: SAR(1 g) = 0.748 mW/g; SAR(10 g) = 0.505 mW/g

Maximum value of SAR (interpolated) = 0.873 mW/g

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

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Date/Time: 12/17/2012 7:41:43 PM

Test Laboratory: RIM Testing Services

MHS_Body_SAR_LTE_17_10mm_Bottom

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

Communication System: LTE_Band 17; Frequency: 710 MHz

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.917 \text{ mho/m}$; $\epsilon_r = 54.177$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

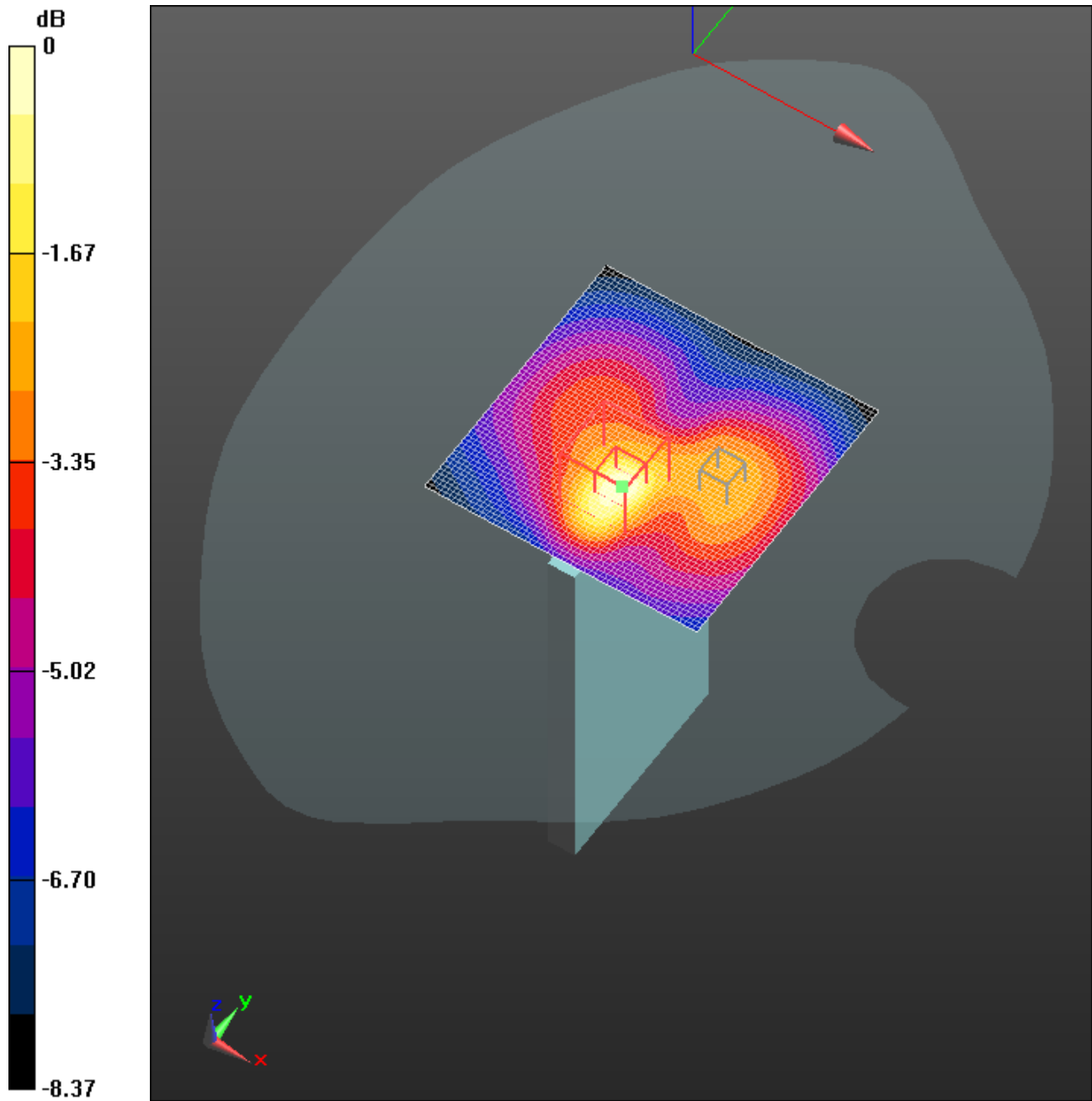
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Bottom_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.4C_Liq_Temp_22.3C /Area Scan (61x61x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 11.153 V/m; Power Drift = -0.14 dB

Fast SAR: SAR(1 g) = 0.113 mW/g; SAR(10 g) = 0.069 mW/g

Maximum value of SAR (interpolated) = 0.140 mW/g

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0 dB = 0.140mW/g = -17.08 dB mW/g

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Date/Time: 12/17/2012 3:02:00 PM

Test Laboratory: RIM Testing Services

MHS_Body_SAR_LTE_17_10mm_Front

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

Communication System: LTE_Band 17; Frequency: 710 MHz

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.917 \text{ mho/m}$; $\epsilon_r = 54.177$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

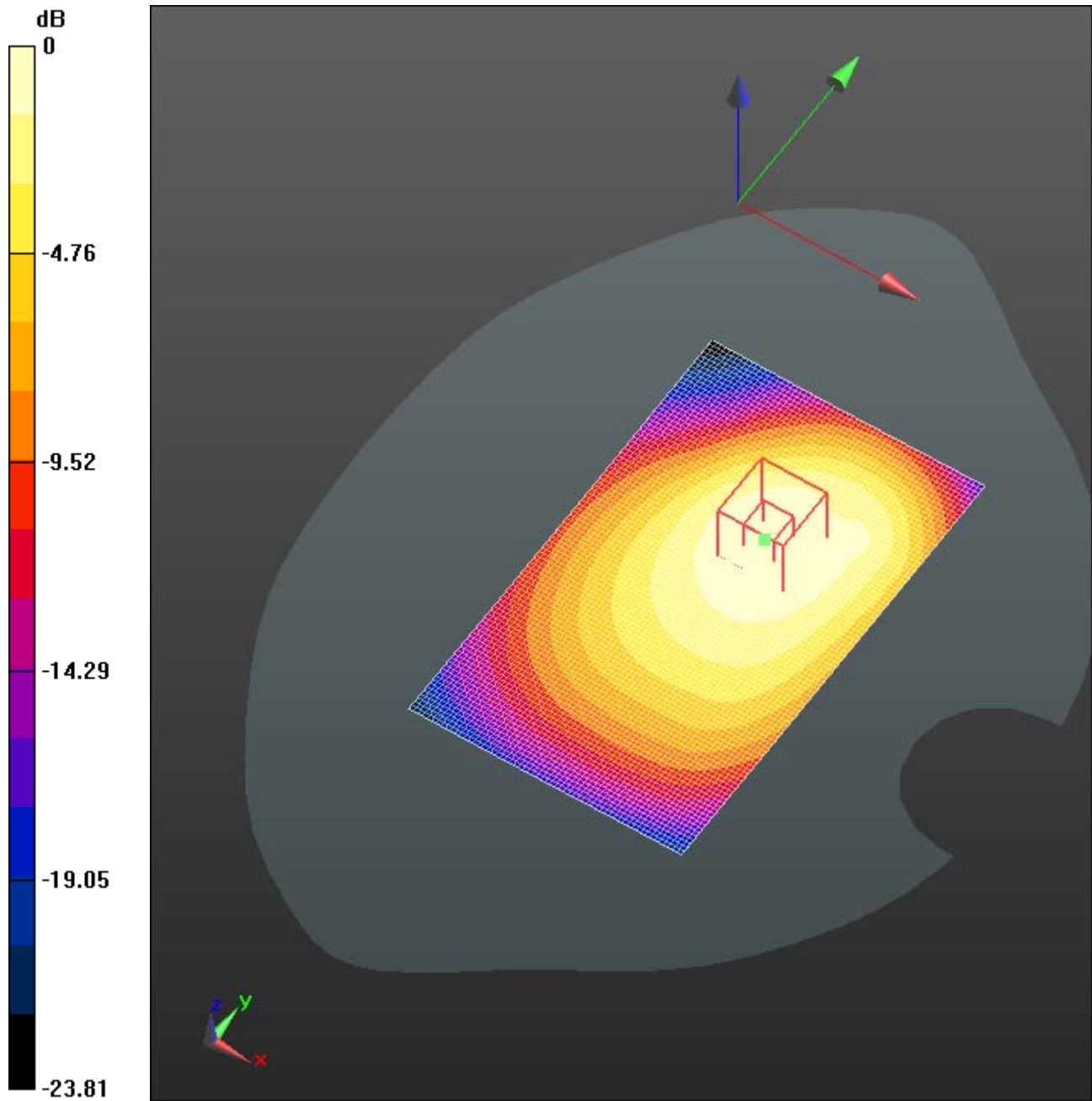
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Front_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.7C_Liq_Temp_22.0C/ Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 19.939 V/m; Power Drift = -0.0066 dB

Fast SAR: SAR(1 g) = 0.509 mW/g; SAR(10 g) = 0.358 mW/g

Maximum value of SAR (interpolated) = 0.576 mW/g

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0 dB = 0.580mW/g = -4.73 dB mW/g

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Date/Time: 12/17/2012 7:14:56 PM

Test Laboratory: RIM Testing Services

MHS_Body_SAR_LTE_17_10mm_Left

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

Communication System: LTE_Band 17; Frequency: 710 MHz

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.917 \text{ mho/m}$; $\epsilon_r = 54.177$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

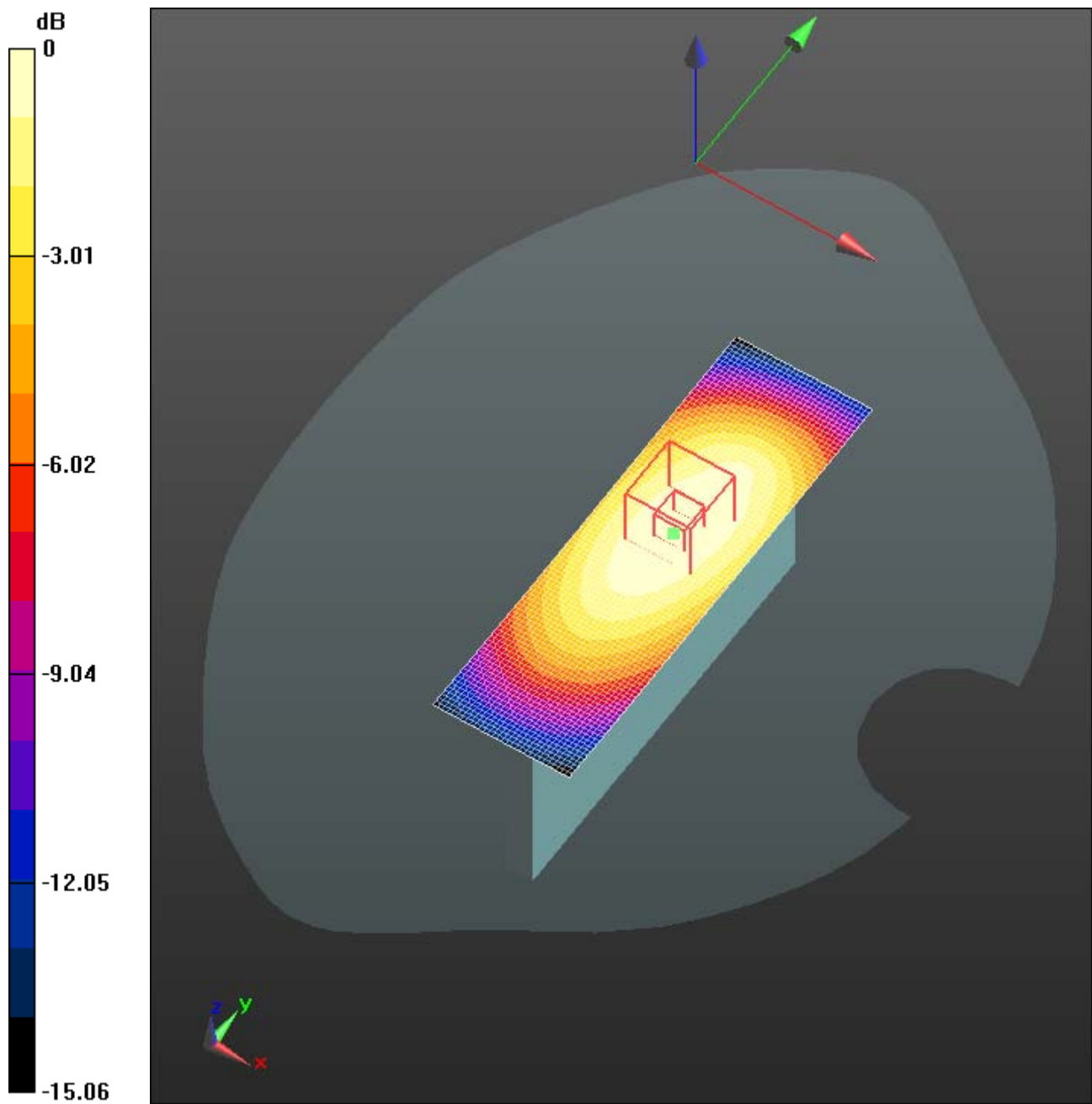
**MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Left
_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.4C_Liq_Temp_22.3C/Ar
ea Scan (31x101x1):** Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 20.444 V/m; Power Drift = -0.0099 dB

Fast SAR: SAR(1 g) = 0.343 mW/g; SAR(10 g) = 0.241 mW/g

Maximum value of SAR (interpolated) = 0.383 mW/g

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0 dB = 0.380mW/g = -8.40 dB mW/g

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Date/Time: 12/17/2012 6:00:31 PM

Test Laboratory: RIM Testing Services

MHS_Body_SAR_LTE_17_10mm_Right

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

Communication System: LTE_Band 17; Frequency: 710 MHz

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.917 \text{ mho/m}$; $\epsilon_r = 54.177$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

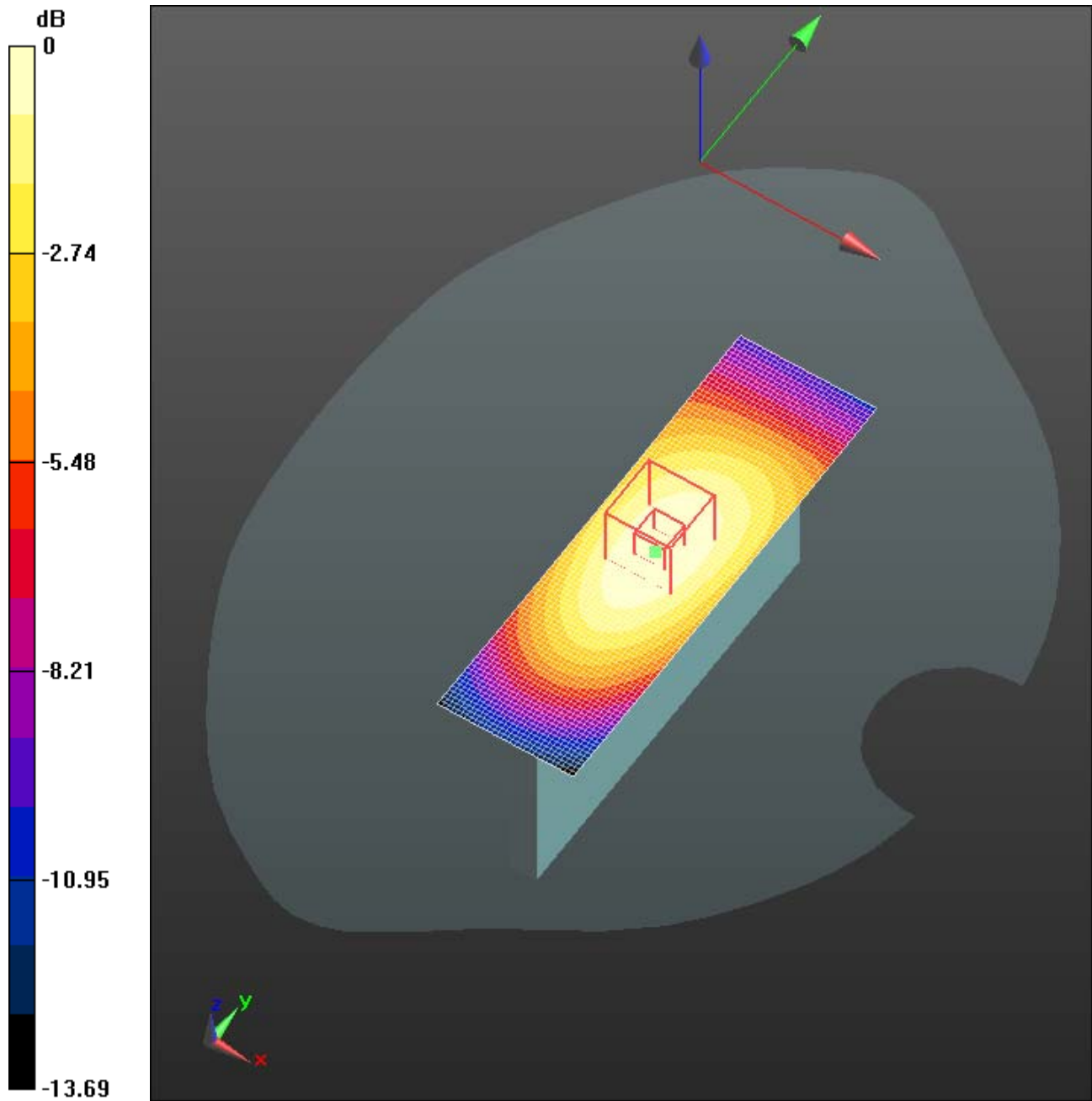
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Right_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.4C_Liq_Temp_22.3C/ Area Scan (31x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 14.194 V/m; Power Drift = -0.03 dB

Fast SAR: SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.107 mW/g

Maximum value of SAR (interpolated) = 0.173 mW/g

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0 dB = 0.170mW/g = -15.39 dB mW/g

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Date/Time: 12/17/2012 2:23:57 PM

Test Laboratory: RIM Testing Services

MHS_Body_SAR_LTE_17_back

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

Communication System: LTE_Band 17; Frequency: 710 MHz

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.917 \text{ mho/m}$; $\epsilon_r = 54.177$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.4C_Liq_Temp_21.8C/Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Reference Value = 23.742 V/m; Power Drift = -0.09 dB
Fast SAR: SAR(1 g) = 0.773 mW/g; SAR(10 g) = 0.526 mW/g
Maximum value of SAR (interpolated) = 0.886 mW/g

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.4C_Liq_Temp_21.8C/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 23.742 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.1120
SAR(1 g) = 0.748 mW/g; SAR(10 g) = 0.504 mW/g
Maximum value of SAR (measured) = 0.858 mW/g

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_17_QPSK_RB25_Offset25_Amb_Temp_23.4C_Liq_Temp_21.9C/

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

Reference Value = 20.366 V/m; Power Drift = 0.06 dB

Fast SAR: SAR(1 g) = 0.593 mW/g; SAR(10 g) = 0.411 mW/g

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

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Headset_Device_Back_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 21.645 V/m; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 0.677 mW/g; SAR(10 g) = 0.467 mW/g

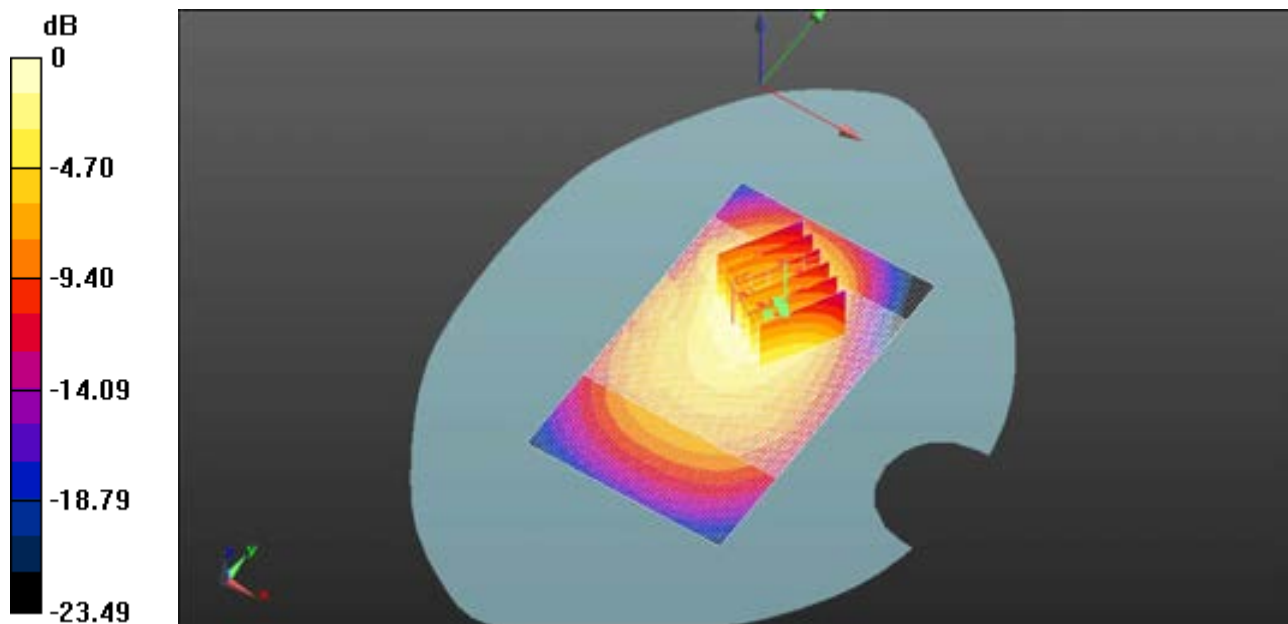
Maximum value of SAR (interpolated) = 0.784 mW/g

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.4C_Liq_Temp_22.3C_2100mA_batt/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 21.943 V/m; Power Drift = -0.0059 dB

Fast SAR: SAR(1 g) = 0.748 mW/g; SAR(10 g) = 0.505 mW/g

Maximum value of SAR (interpolated) = 0.873 mW/g



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

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Date/Time: 12/17/2012 3:02:00 PM

Test Laboratory: RIM Testing Services

MHS_Body_SAR_LTE_17_Front

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

Communication System: LTE_Band 17; Frequency: 710 MHz

Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.917 \text{ mho/m}$; $\epsilon_r = 54.177$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.27, 6.27, 6.27); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

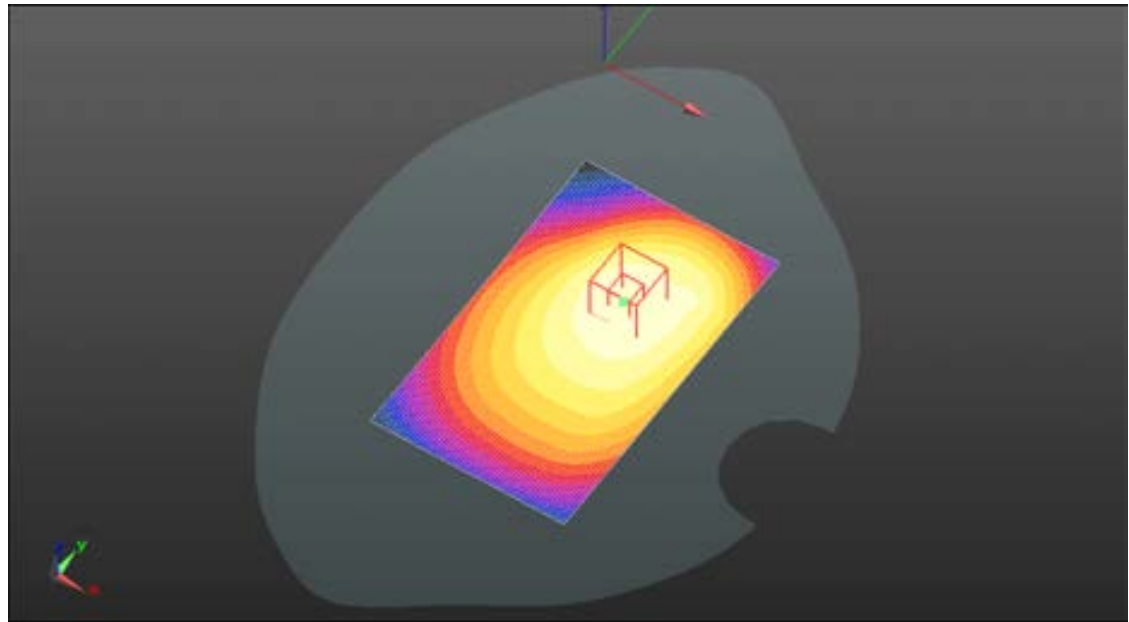
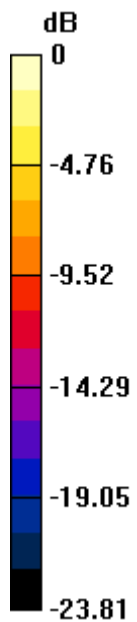
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Front_LTE_17_QPSK_RB1_Offset49_Amb_Temp_23.7C_Liq_Temp_22.0C/ Area Scan (61x101x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Reference Value = 19.939 V/m; Power Drift = -0.0066 dB

Fast SAR: SAR(1 g) = 0.509 mW/g; SAR(10 g) = 0.358 mW/g

Maximum value of SAR (interpolated) = 0.576 mW/g

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0 dB = 0.580mW/g = -4.73 dB mW/g

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Date: 2/5/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2668C71D

Configuration: MHS_10mm_Body_SAR_Configuration

Communication System: LTE 5; Communication System Band: LTE 5; Frequency: 844 MHz

Medium Parameters used: $f=844$ MHz; $\sigma = 0.992$ S/m; $\epsilon_r = 52.923$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF: (6.06,6.06,6.06); Calibrated: 11/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_5_High_QPSK_RB1_Offset0_Amb_Temp_23.3C_Liq_Temp_21.9C/Area Scan

(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.518 W/kg

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_5_High_QPSK_RB1_Offset0_Amb_Temp_23.3C_Liq_Temp_21.9C/Zoom Scan (5x5x7) (26x26x36)/Cube 0:

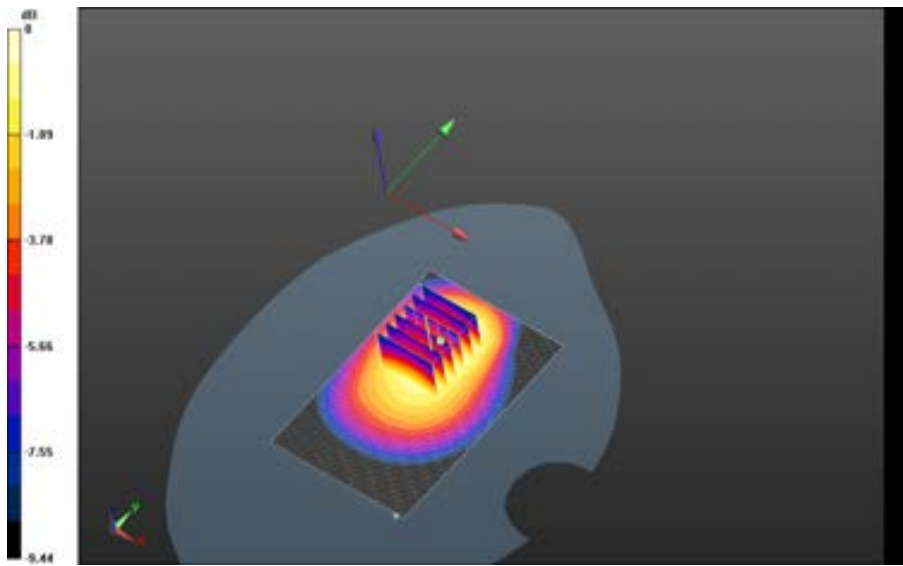
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 18.057 V/m; **Power Drift = -0.019 dB**

Averaged SAR: SAR(1g) = 0.485 W/kg; SAR(10g) = 0.361 W/kg

Maximum value of SAR (interpolated) = 0.601 W/kg

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0 dB = 0.508 W/kg = -2.94 dBW/kg

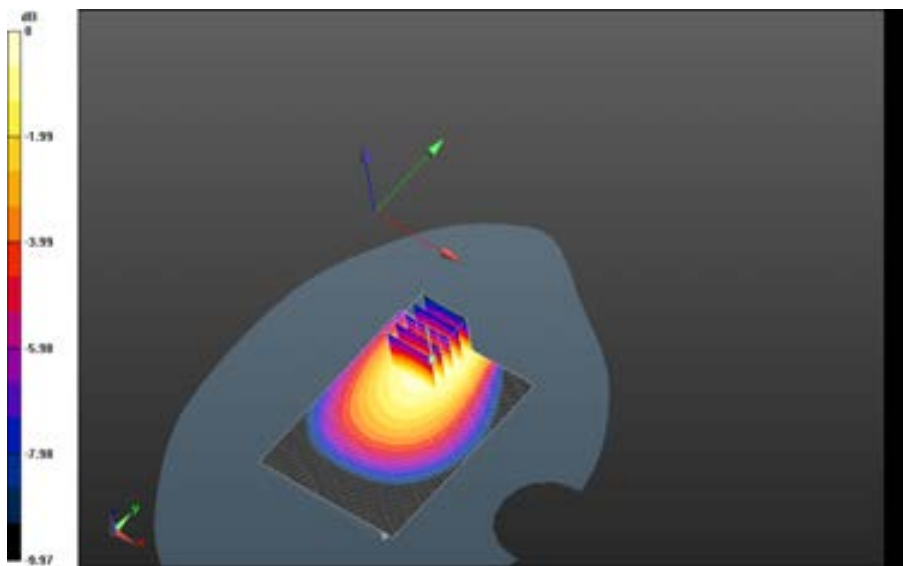
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 21(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_5_Low_Chan_QPSK_RB25_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.486 W/kg

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_5_Low_Chan_QPSK_RB25_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 16.601 V/m; **Power Drift = -0.114 dB**

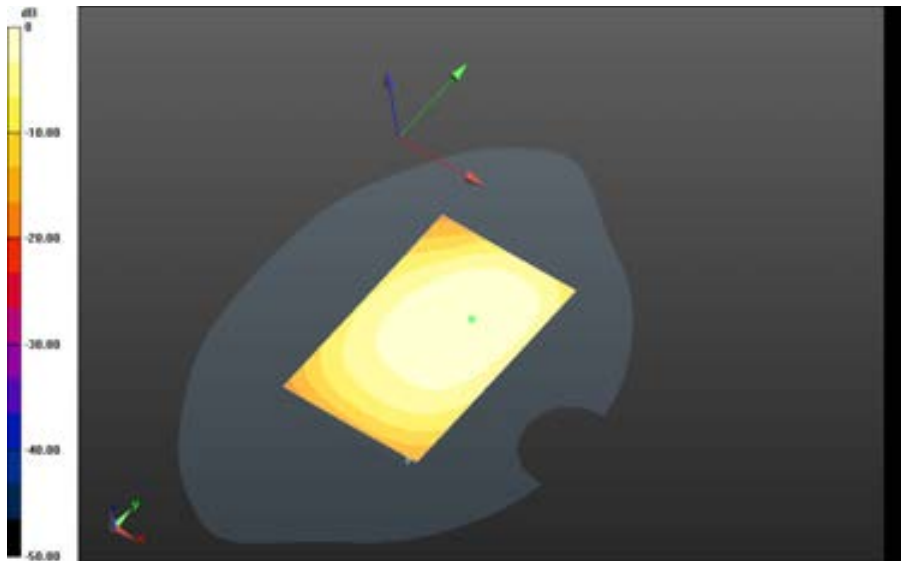
Averaged SAR: SAR(1g) = 0.448 W/kg; SAR(10g) = 0.331 W/kg
Maximum value of SAR (interpolated) = 0.582 W/kg



0 dB = 0.508 W/kg = -2.94 dBW/kg

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	Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			22(166)	
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW	

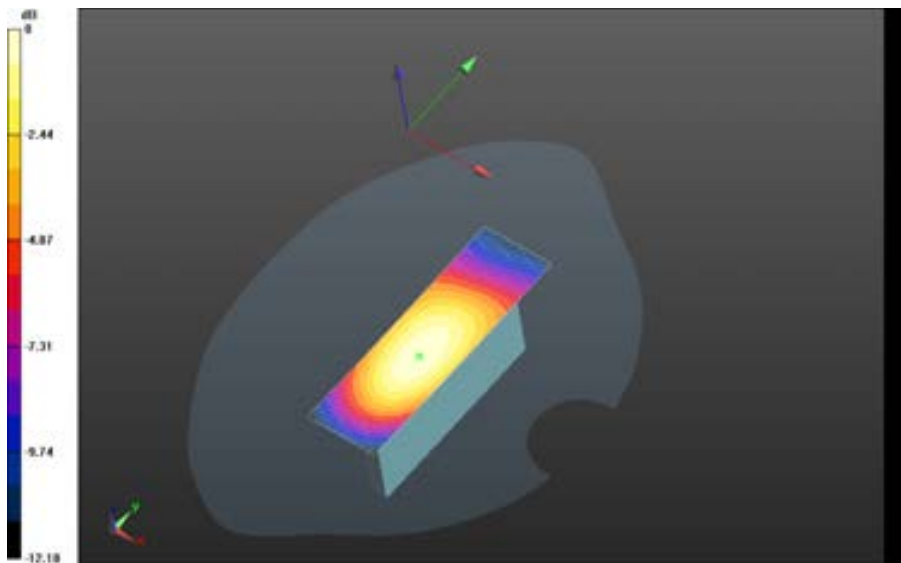
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Front_LTE_5_High_Chan_QPSK_RB1_Offset0_Amb_Temp_23.7C_Liq_Temp_22.0C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.418 W/kg



0 dB = 0.473 W/kg = -3.25 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 23(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

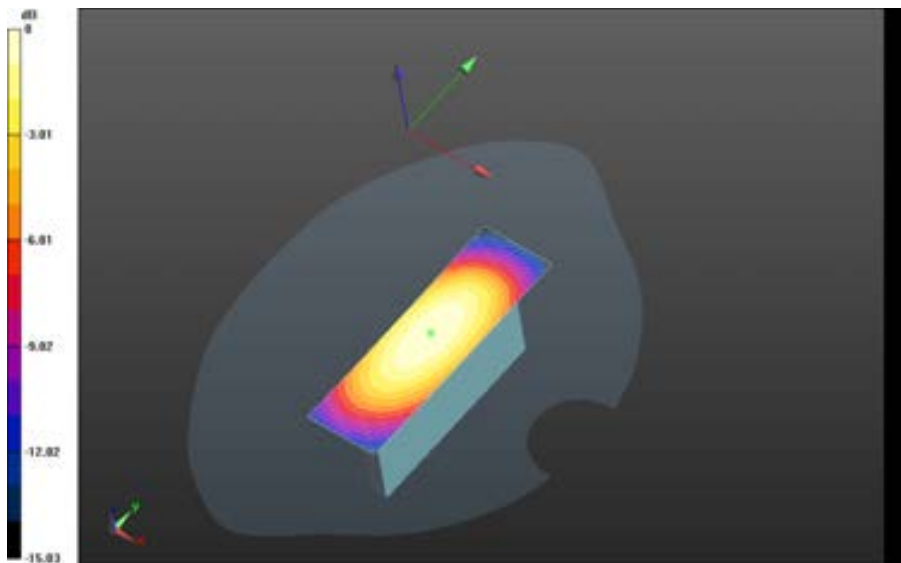
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Right_LTE_5_High_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.201 W/kg



0 dB = 0.418 W/kg = -3.79 dBW/kg

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	Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			24(166)	
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW	

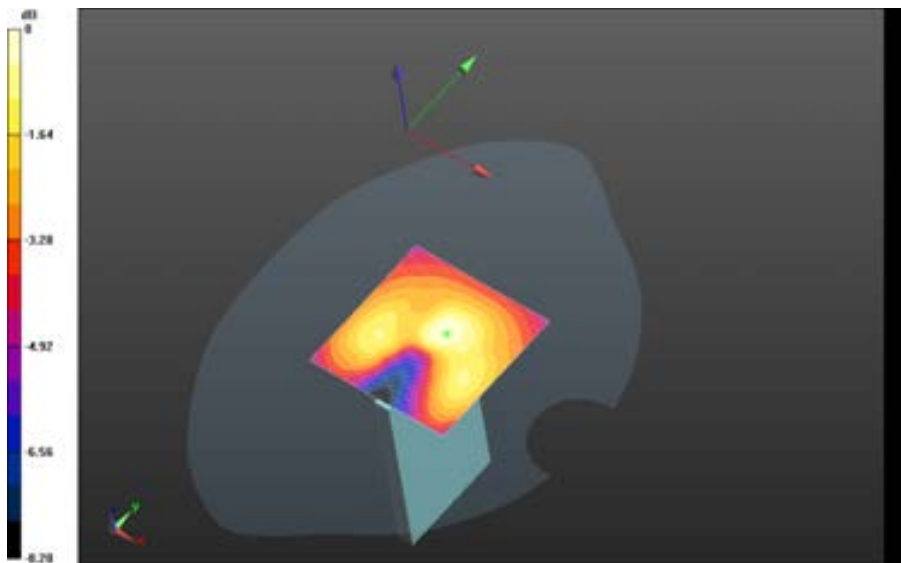
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Left_LTE_5_High_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.459 W/kg



0 dB = 0.201 W/kg = -6.97 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 25(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Bottom_LTE
_5_High_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/Area
Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0406 W/kg



0 dB = 0.459 W/kg = -3.38 dBW/kg

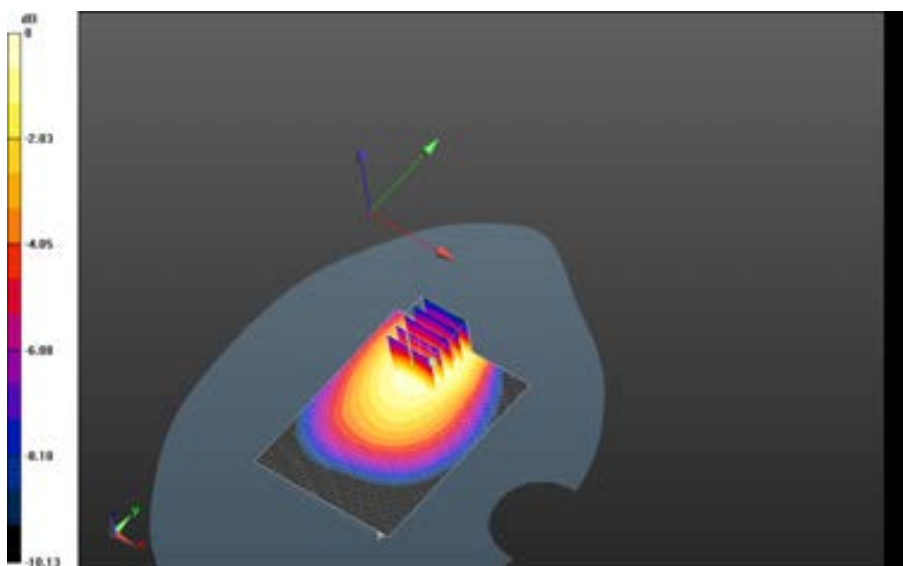
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 26(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+HS_LTE_5_High_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.462 W/kg

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+HS_LTE_5_High_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 16.029 V/m; **Power Drift = 0.150 dB**

Averaged SAR: SAR(1g) = 0.432 W/kg; SAR(10g) = 0.322 W/kg
Maximum value of SAR (interpolated) = 0.545 W/kg



0 dB = 0.0406 W/kg = -13.91 dBW/kg

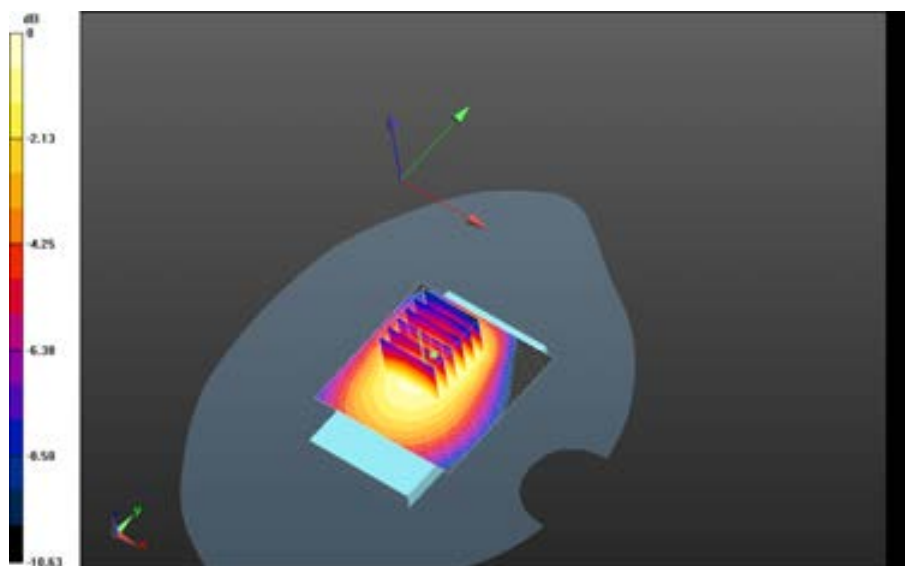
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 27(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+2100mA_LTE_5_High_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/ Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.512 W/kg

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+2100mA_LTE_5_High_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/Zoom Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 22.015 V/m; **Power Drift = -0.080 dB**

Averaged SAR: SAR(1g) = 0.498 W/kg; SAR(10g) = 0.371 W/kg
Maximum value of SAR (interpolated) = 0.630 W/kg



0 dB = 0.453 W/kg = -3.44 dBW/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	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 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date: 2/4/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2668C71D

Configuration: MHS_10mm_Body_SAR_Configuration_EDGE850

Communication System: EDGE 850 (2slots); Communication System Band: EDGE 850;

Frequency: 836.8 MHz

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.984$ S/m; $\epsilon_r = 53.016$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF: (6.06,6.06,6.06); Calibrated: 11/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_EDGE850_Mid_chan_Amb_Temp_23.6C_Liq_Temp_22.6C/Area Scan (61x101x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 19.573 V/m; **Power Drift = -0.100 dB**

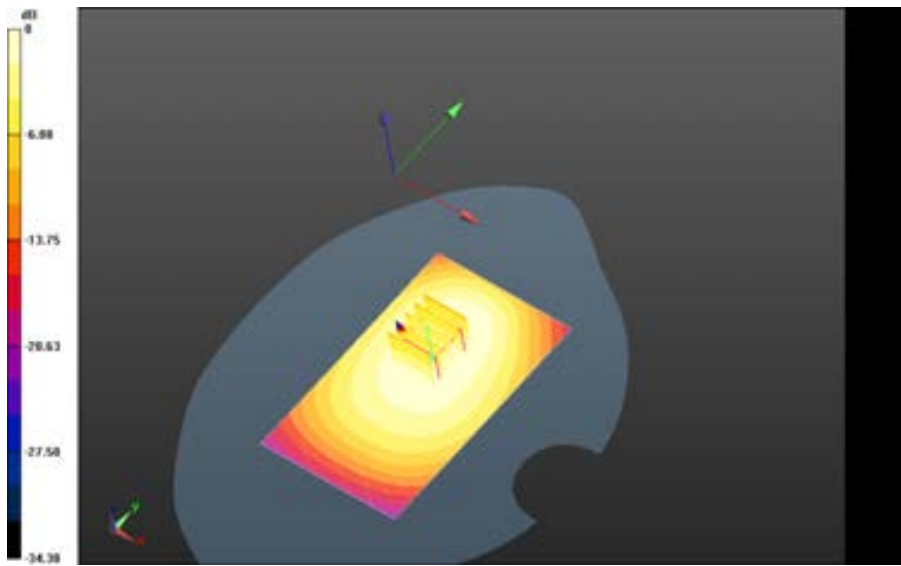
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_EDGE850_Mid_chan_Amb_Temp_23.6C_Liq_Temp_22.6C/Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 19.573 V/m; **Power Drift = -0.100 dB**

Averaged SAR: SAR(1g) = 0.429 W/kg; SAR(10g) = 0.321 W/kg

Maximum value of SAR (interpolated) = 0.554 W/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

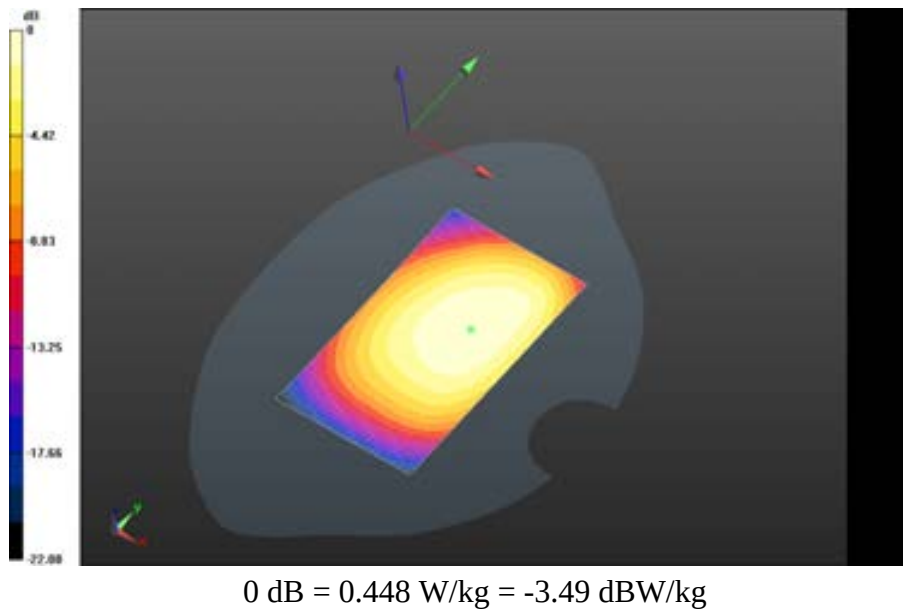


0 dB = 0.448 W/kg = -3.49 dBW/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW	

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Front_EDGE
850_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.407 V/m; **Power Drift = -0.057 dB**

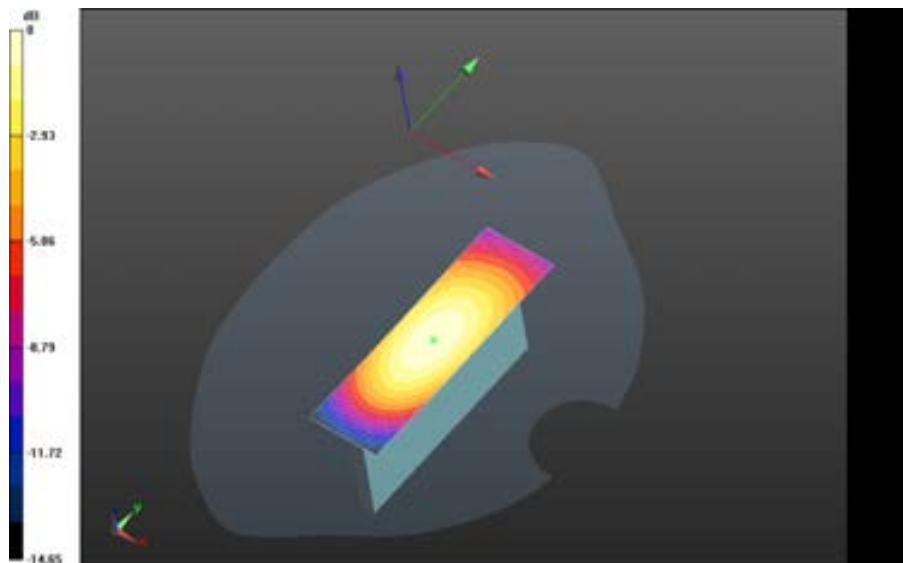
Fast SAR: SAR(1g) = 0.369 W/kg; SAR(10g) = 0.259 W/kg
Maximum value of SAR (interpolated) = 0.389 W/kg



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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Right_EDGE
850_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (31x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.643 V/m; **Power Drift = -0.00521 dB**

Fast SAR: SAR(1g) = 0.210 W/kg; SAR(10g) = 0.145 W/kg
Maximum value of SAR (interpolated) = 0.224 W/kg



0 dB = 0.389 W/kg = -4.10 dBW/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

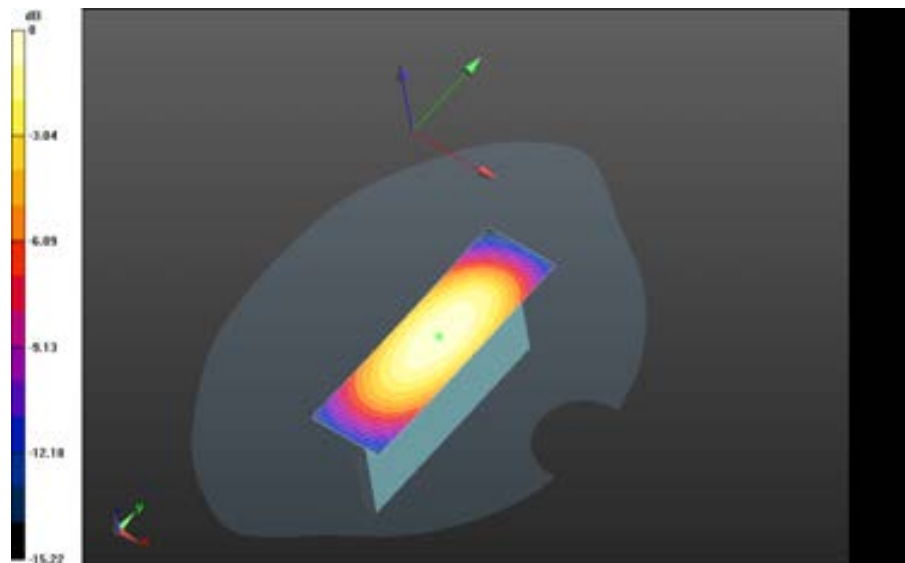
**MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Left_EDGE8
50_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (31x101x1):**

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 21.630 V/m; **Power Drift = 0.014 dB**

Fast SAR: SAR(1g) = 0.412 W/kg; SAR(10g) = 0.284 W/kg

Maximum value of SAR (interpolated) = 0.436 W/kg



0 dB = 0.224 W/kg = -6.50 dBW/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

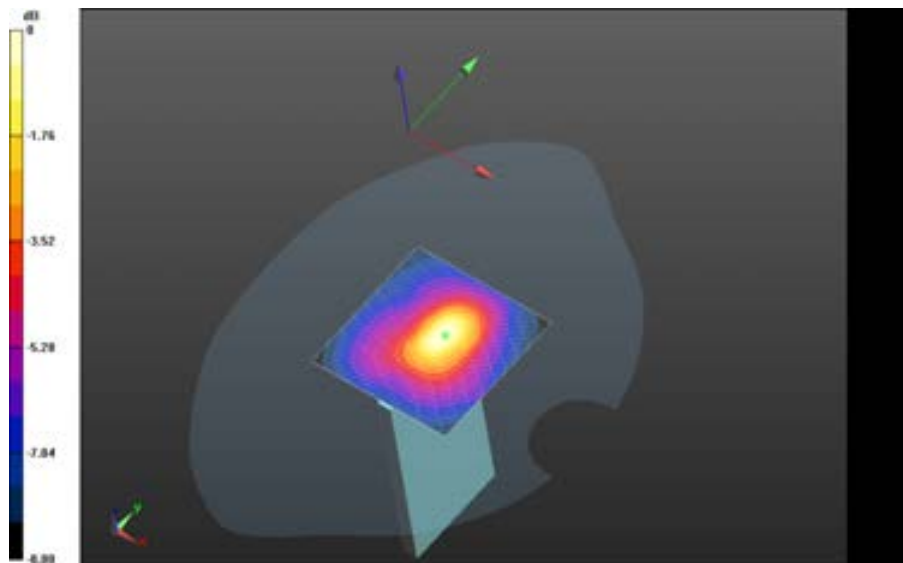
**MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Bottom_ED
GE850_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (61x61x1):**

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.494 V/m; **Power Drift = -0.067 dB**

Fast SAR: SAR(1g) = 0.0556 W/kg; SAR(10g) = 0.0350 W/kg

Maximum value of SAR (interpolated) = 0.0640 W/kg



0 dB = 0.436 W/kg = -3.61 dBW/kg

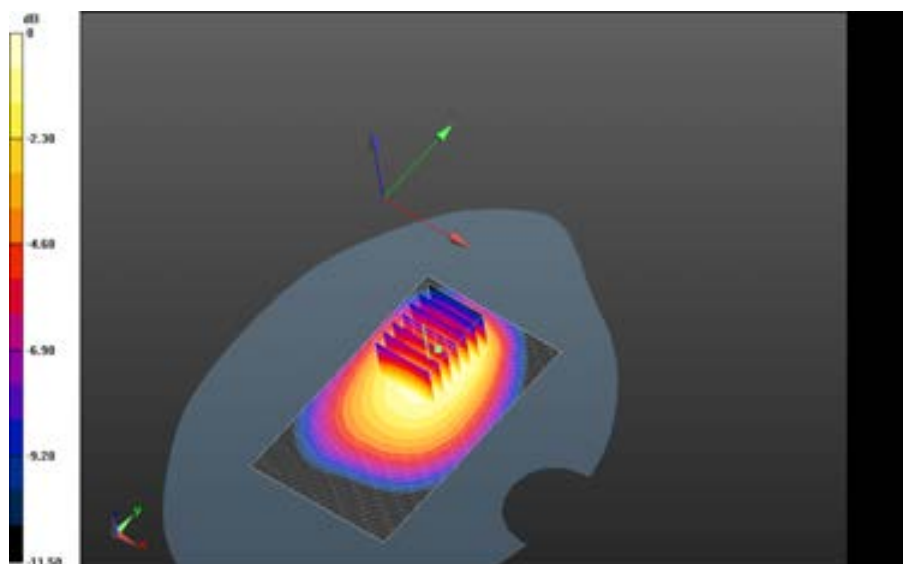
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 35(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+HS_E DGE850_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.5C 2/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.024 V/m; **Power Drift = -0.081 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+H S_EDGE850_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.5C 2/Zoom Scan (5x5x7) (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 17.024 V/m; **Power Drift = -0.081 dB**

Averaged SAR: SAR(1g) = 0.358 W/kg; SAR(10g) = 0.265 W/kg
Maximum value of SAR (interpolated) = 0.472 W/kg



0 dB = 0.0640 W/kg = -11.94 dBW/kg

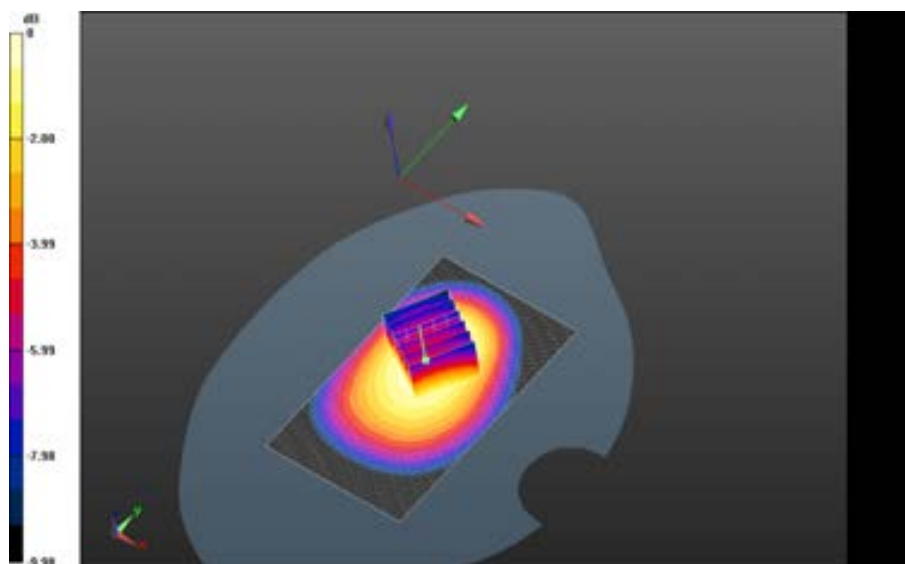
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 36(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_2100m
A_EDGE850_Mid_chan_Amb_Temp_23.5C_Liq_Temp_22.6C/Area Scan
(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.499 V/m; **Power Drift = -0.087 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_2
100mA_EDGE850_Mid_chan_Amb_Temp_23.5C_Liq_Temp_22.6C/Zoom
Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500
mm, dz=1.000 mm

Reference Value = 21.499 V/m; **Power Drift = -0.087 dB**

Averaged SAR: SAR(1g) = 0.451 W/kg; SAR(10g) = 0.336 W/kg
Maximum value of SAR (interpolated) = 0.577 W/kg

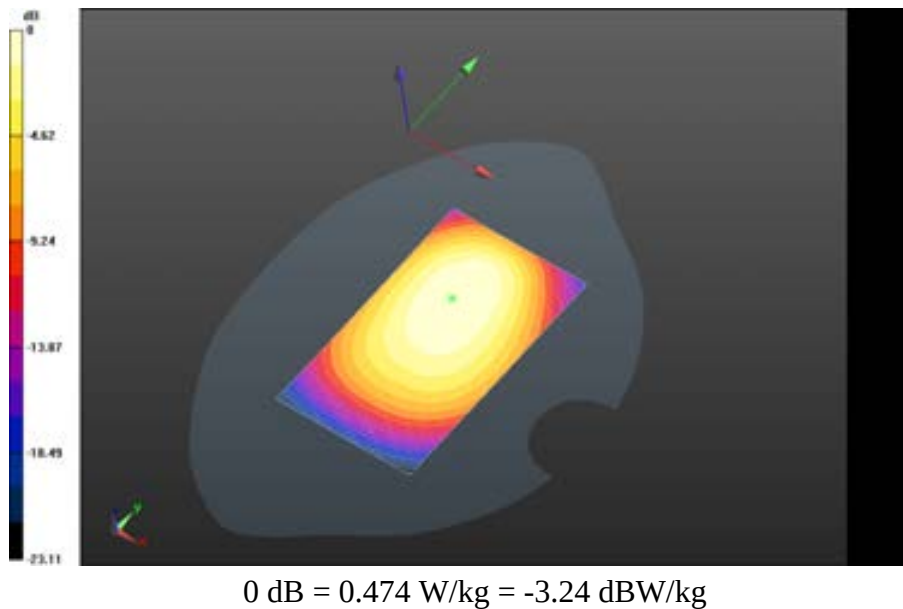


0 dB = 0.376 W/kg = -4.25 dBW/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_3-Slot_EDGE850_Mid_chan_Amb_Temp_23.6C_Liq_Temp_22.6C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.005 V/m; **Power Drift = -0.118 dB**

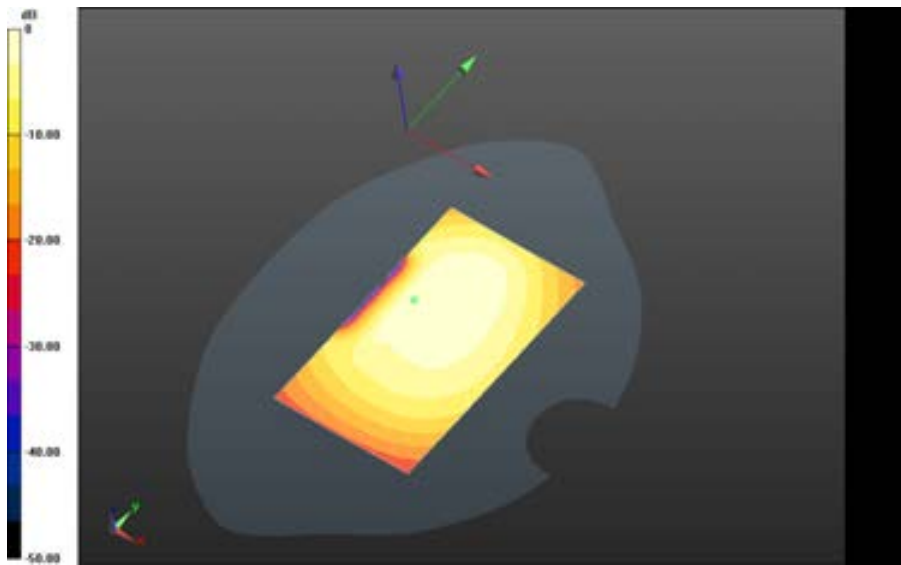
Fast SAR: SAR(1g) = 0.410 W/kg; SAR(10g) = 0.287 W/kg
Maximum value of SAR (interpolated) = 0.432 W/kg



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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_4-Slot_EDGE850_Mid_chan_Amb_Temp_23.6C_Liq_Temp_22.6C 2/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.764 V/m; **Power Drift = 0.014 dB**

Fast SAR: SAR(1g) = 0.429 W/kg; SAR(10g) = 0.297 W/kg; Secondary SAR(1g) = 0.415 W/kg
Maximum value of SAR (interpolated) = 0.525 W/kg



0 dB = 0.432 W/kg = -3.65 dBW/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

UMTS Band

V

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date: 2/4/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2668C71D

Configuration: MHS_10mm_Body_SAR_Configuration_UMTS_Band_V

Communication System: WCDMA FDD V; Communication System Band: UMTS band V; Frequency: 836.4 MHz

Medium Parameters used: $f=836.4$ MHz; $\sigma = 0.983$ S/m; $\epsilon_r = 53.022$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF: (6.06,6.06,6.06); Calibrated: 11/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_UMTS_V_Mid_chan_Amb_Temp_23.6C_Liq_Temp_22.6C/Area Scan (61x101x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 22.729 V/m; **Power Drift = -0.087 dB**

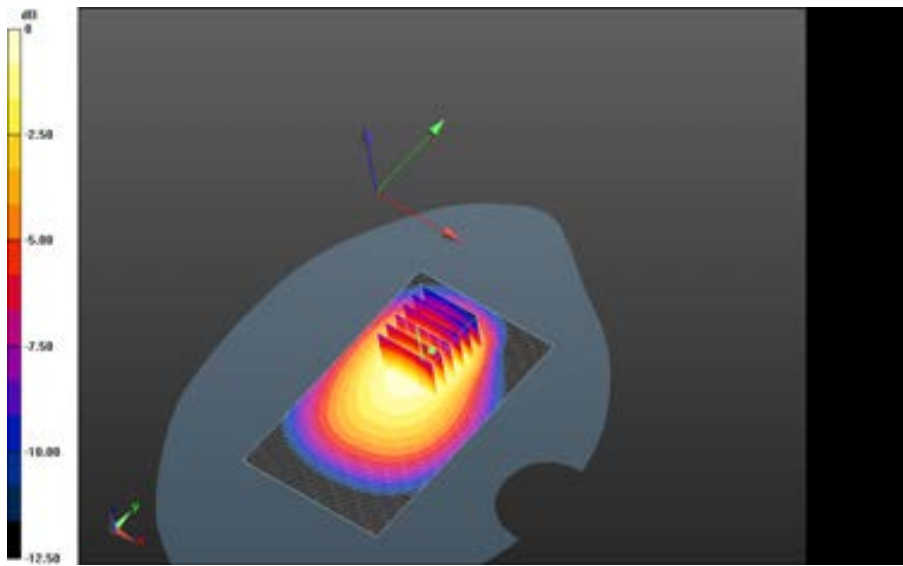
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_UMTS_V_Mid_chan_Amb_Temp_23.6C_Liq_Temp_22.6C/Zoom Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 22.729 V/m; **Power Drift = -0.087 dB**

Averaged SAR: SAR(1g) = 0.624 W/kg; SAR(10g) = 0.463 W/kg

Maximum value of SAR (interpolated) = 0.793 W/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

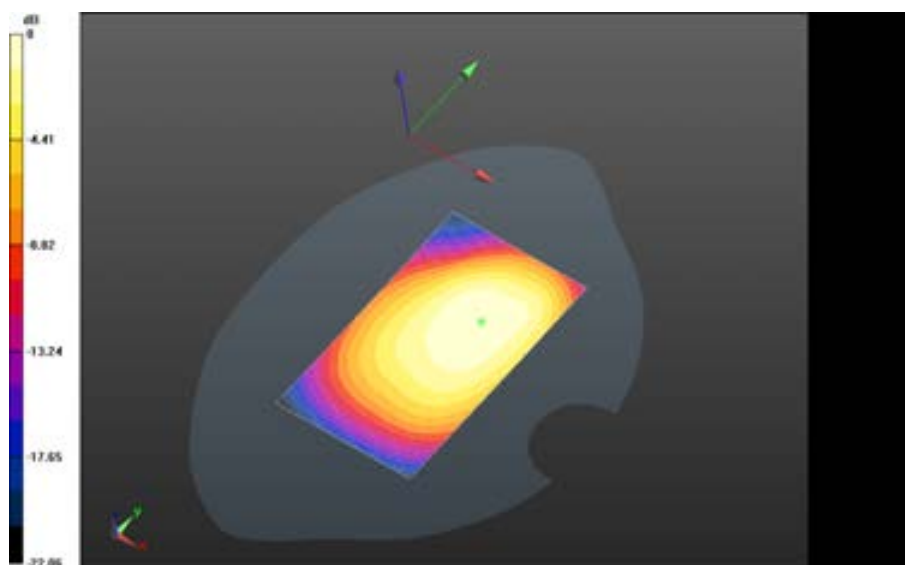


0 dB = 0.656 W/kg = -1.83 dBW/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Front_UMT
S_V_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.689 V/m; **Power Drift = 0.084 dB**

Fast SAR: SAR(1g) = 0.523 W/kg; SAR(10g) = 0.364 W/kg
Maximum value of SAR (interpolated) = 0.550 W/kg



0 dB = 0.656 W/kg = -1.83 dBW/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

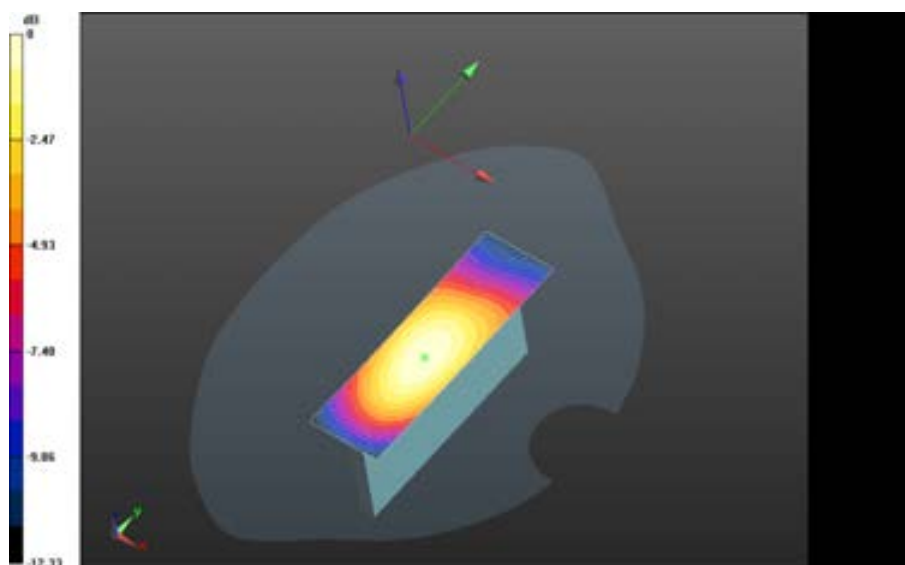
**MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Right_UMTS
_V_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (31x101x1):**

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 16.932 V/m; **Power Drift = 0.098 dB**

Fast SAR: SAR(1g) = 0.250 W/kg; SAR(10g) = 0.172 W/kg

Maximum value of SAR (interpolated) = 0.266 W/kg



0 dB = 0.550 W/kg = -2.60 dBW/kg

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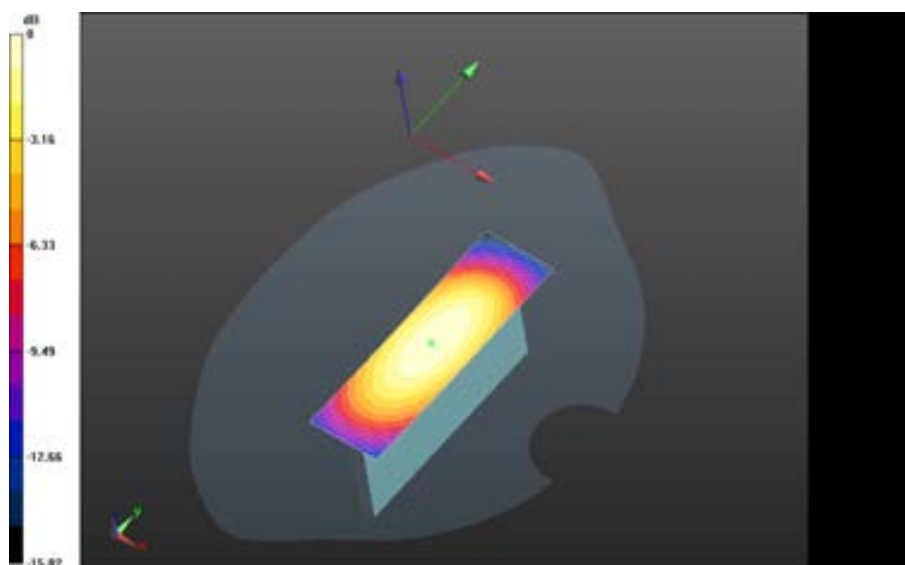
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Left_UMTS_V_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (31x101x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 25.231 V/m; **Power Drift = 0.00344 dB**

Fast SAR: SAR(1g) = 0.554 W/kg; SAR(10g) = 0.382 W/kg

Maximum value of SAR (interpolated) = 0.588 W/kg

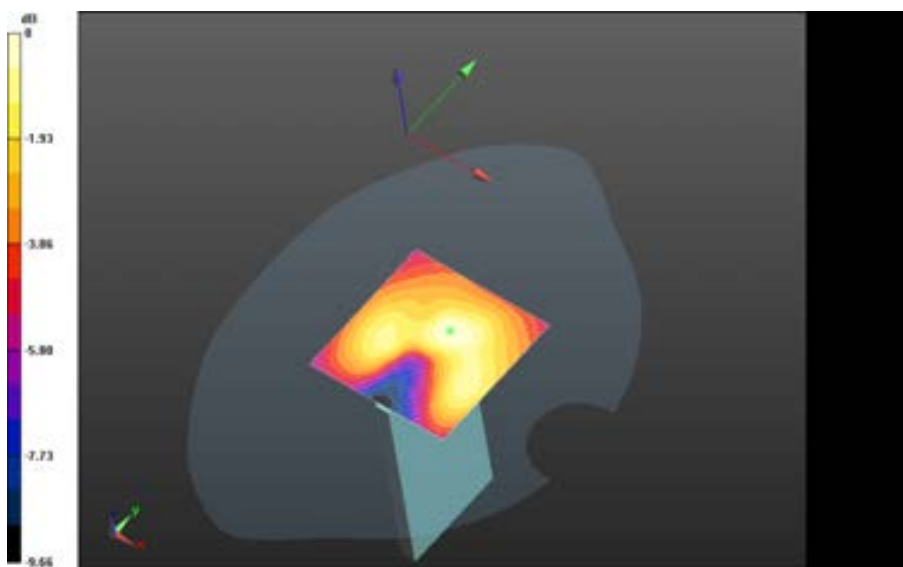


0 dB = 0.266 W/kg = -5.75 dBW/kg

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MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Bottom_UM
TS_V_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (61x61x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.311 V/m; **Power Drift = -0.094 dB**

Fast SAR: SAR(1g) = 0.0475 W/kg; SAR(10g) = 0.0319 W/kg; Secondary SAR(1g) =
0.0398 W/kg
Maximum value of SAR (interpolated) = 0.0519 W/kg

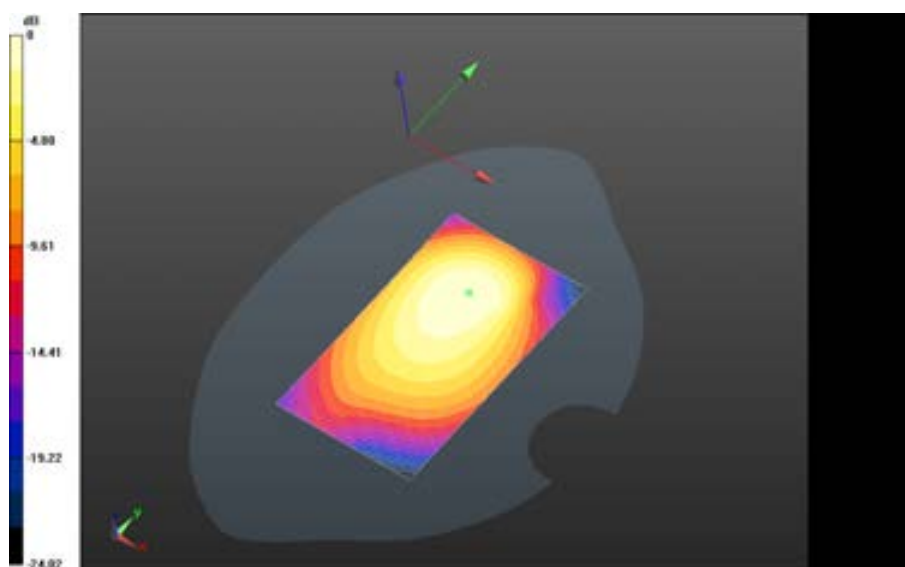


0 dB = 0.588 W/kg = -2.31 dBW/kg

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MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+HS_U
MTS_V_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.5C 2/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.983 V/m; **Power Drift = 0.078 dB**

Fast SAR: SAR(1g) = 0.552 W/kg; SAR(10g) = 0.377 W/kg; Secondary SAR(1g) =
0.0398 W/kg
Maximum value of SAR (interpolated) = 0.590 W/kg



0 dB = 0.0519 W/kg = -12.85 dBW/kg

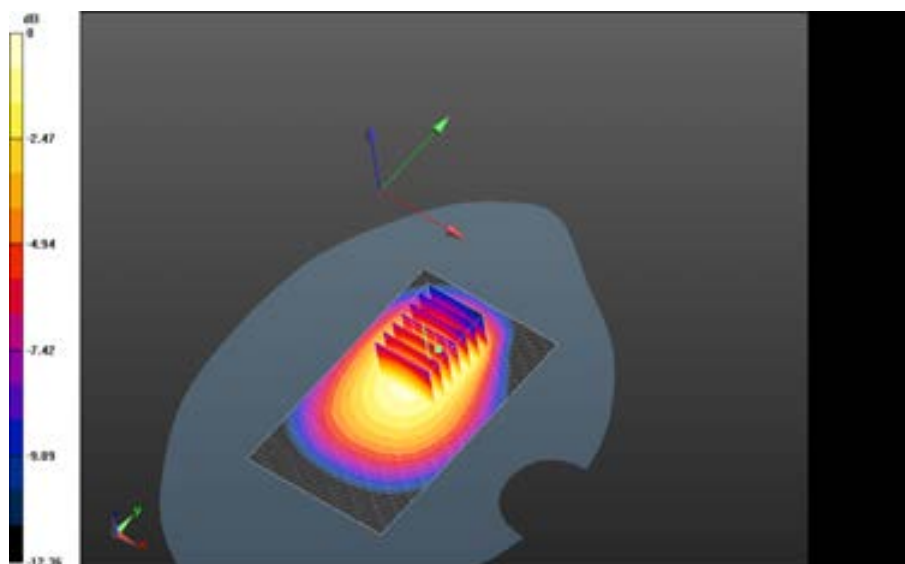
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 47(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_2100m
A_UMTS_V_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Area Scan
(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.135 V/m; **Power Drift = -0.100 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_2
100mA_UMTS_V_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Zoom
Scan (5x5x7) (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500
mm, dz=1.000 mm

Reference Value = 23.135 V/m; **Power Drift = -0.100 dB**

Averaged SAR: SAR(1g) = 0.618 W/kg; SAR(10g) = 0.461 W/kg
Maximum value of SAR (interpolated) = 0.793 W/kg



0 dB = 0.590 W/kg = -2.29 dBW/kg

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LTE 4

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date: 1/31/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2668C71D

Configuration: MHS_10mm_Body_SAR_Configuration

Communication System: LTE 4; Communication System Band: LTE 4; Frequency: 1745 MHz

Medium Parameters used: $f=1745$ MHz; $\sigma = 1.530$ S/m; $\epsilon_r = 51.403$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF: (4.75,4.75,4.75); Calibrated: 11/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_High_QPSK_RB1_Offset99_Amb_Temp_23.8C_Liq_Temp_22.0C/Area Scan

(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 12.586 V/m; **Power Drift = 0.122 dB**

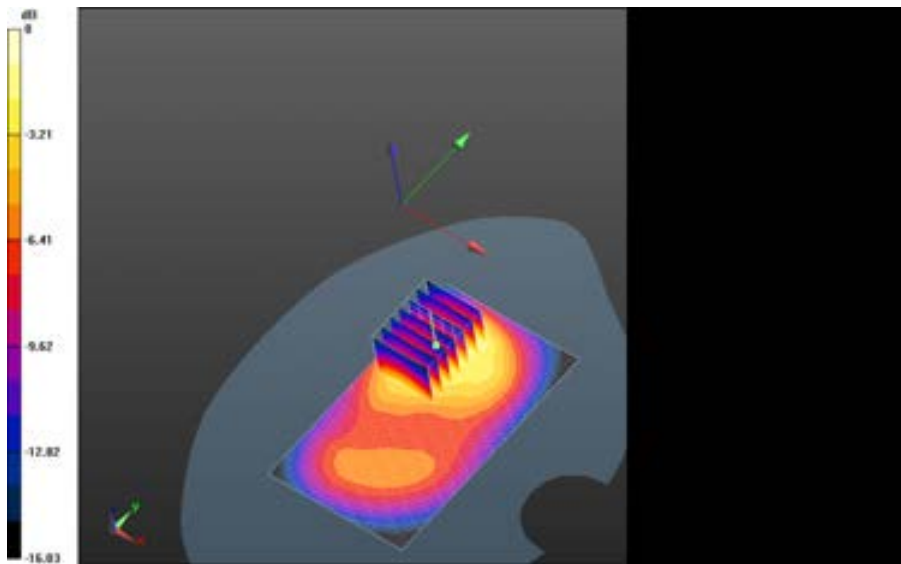
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_High_QPSK_RB1_Offset99_Amb_Temp_23.8C_Liq_Temp_22.0C/Zoom Scan (5x5x7) (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 12.586 V/m; **Power Drift = 0.122 dB**

Averaged SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.607 W/kg

Maximum value of SAR (interpolated) = 1.56 W/kg

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0 dB = 1.13 W/kg = 0.53 dBW/kg

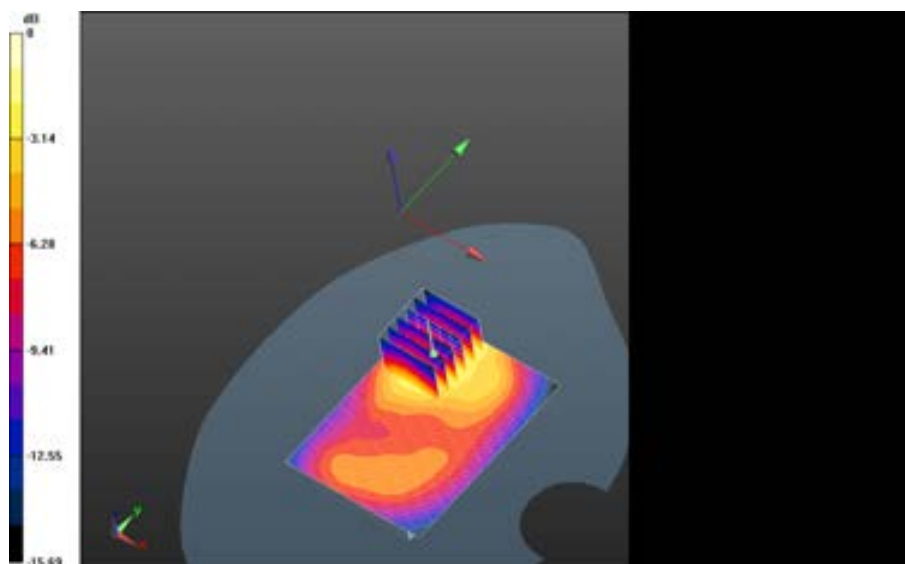
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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Mid_Chann_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.951 V/m; **Power Drift = -0.029 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Mid_Chann_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Zoom Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 12.951 V/m; **Power Drift = -0.029 dB**

Averaged SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.609 W/kg
Maximum value of SAR (interpolated) = 1.59 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

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MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_2nd

Scan_Mid_Chann_QPSK_RB1_Offset0_Amb_Temp_23.5C_Liq_Temp_21.4C/Area

Scan (61x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_2nd

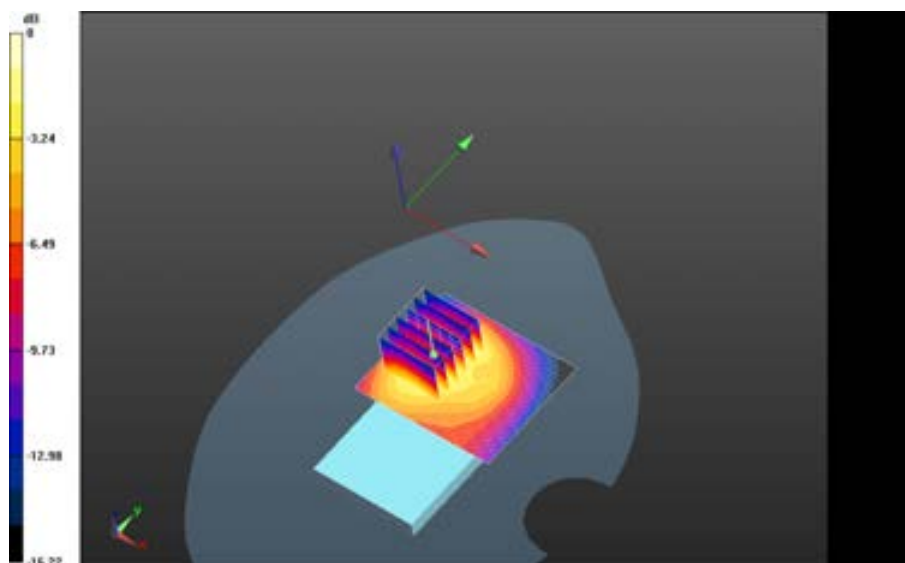
Scan_Mid_Chann_QPSK_RB1_Offset0_Amb_Temp_23.5C_Liq_Temp_21.4C/Zoom

Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 13.773 V/m; **Power Drift = -0.021 dB**

Averaged SAR: SAR(1g) = 1.01 W/kg; SAR(10g) = 0.596 W/kg

Maximum value of SAR (interpolated) = 1.56 W/kg



0 dB = 1.14 W/kg = 0.57 dBW/kg

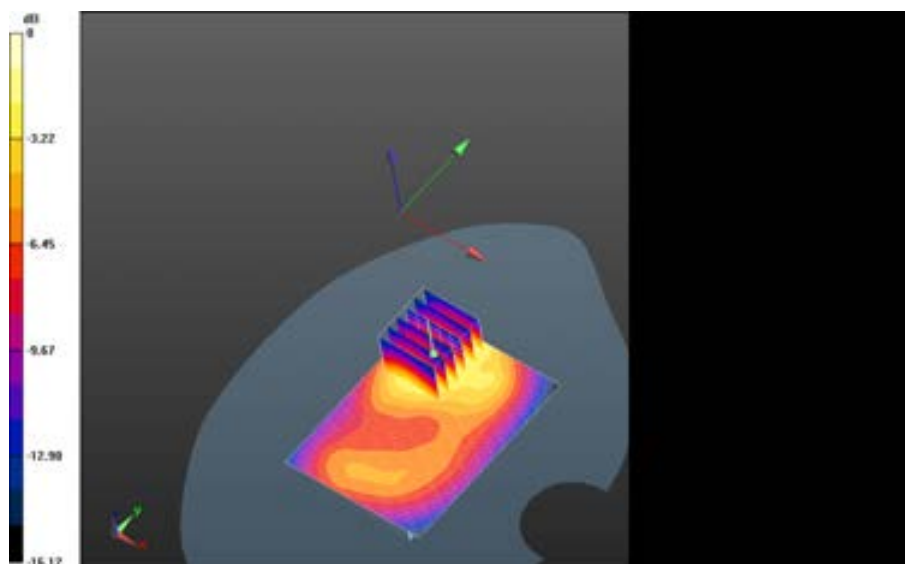
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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Low_Chan_QPSK_RB1_Offset99_Amb_Temp_23.4C_Liq_Temp_21.9C 2/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.154 V/m; **Power Drift = -0.106 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Low_Chan_QPSK_RB1_Offset99_Amb_Temp_23.4C_Liq_Temp_21.9C 2/Zoom Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 13.154 V/m; **Power Drift = -0.106 dB**

Averaged SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.609 W/kg
Maximum value of SAR (interpolated) = 1.56 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

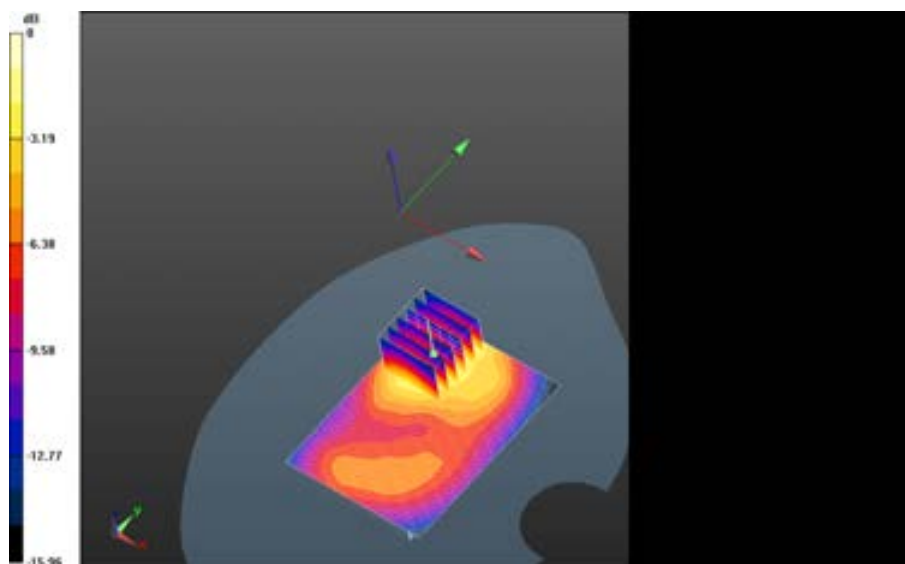
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 54(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Low_Chan_QPSK_RB50_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.443 V/m; **Power Drift = 0.053 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Low_Chan_QPSK_RB50_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Zoom Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.443 V/m; **Power Drift = 0.053 dB**

Averaged SAR: SAR(1g) = 0.865 W/kg; SAR(10g) = 0.508 W/kg
Maximum value of SAR (interpolated) = 1.33 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

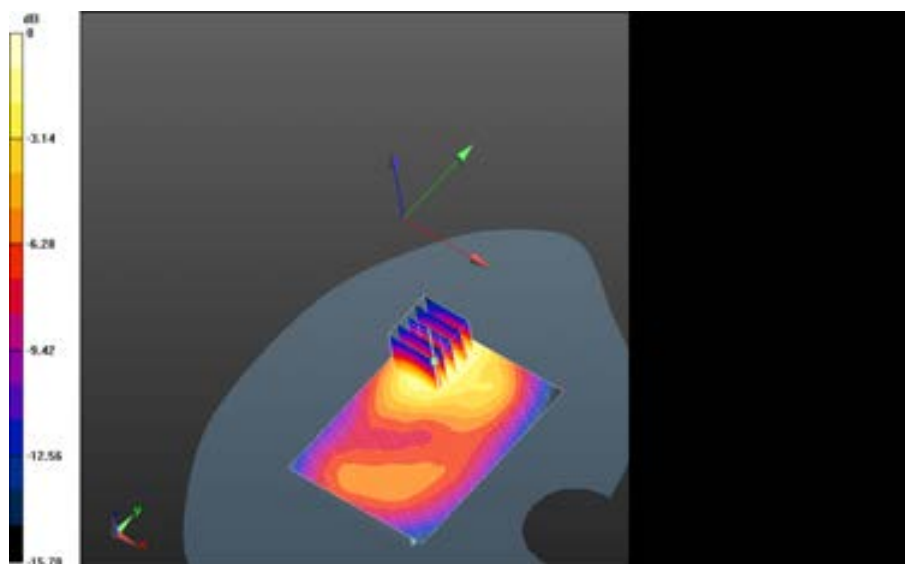
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 55(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Mid_Chan_QPSK_RB50_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.787 V/m; **Power Drift = -0.045 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Mid_Chan_QPSK_RB50_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.787 V/m; **Power Drift = -0.045 dB**

Averaged SAR: SAR(1g) = 0.902 W/kg; SAR(10g) = 0.533 W/kg
Maximum value of SAR (interpolated) = 1.39 W/kg



0 dB = 0.963 W/kg = -0.16 dBW/kg

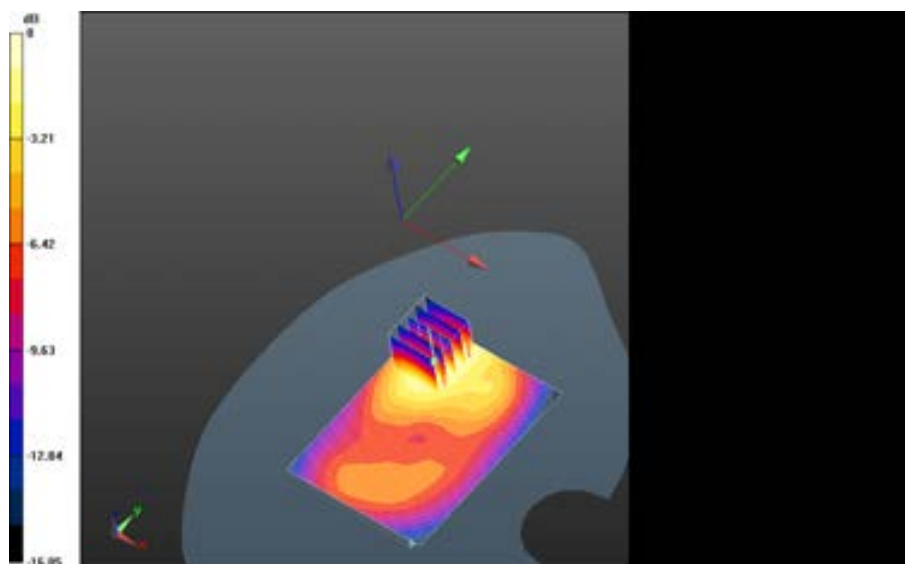
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 56(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_High_Chan_QPSK_RB50_Offset50_Amb_Temp_23.4C_Liq_Temp_21.9C 2/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.751 V/m; **Power Drift = -0.014 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_High_Chan_QPSK_RB50_Offset50_Amb_Temp_23.4C_Liq_Temp_21.9C 2/Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.751 V/m; **Power Drift = -0.014 dB**

Averaged SAR: SAR(1g) = 0.907 W/kg; SAR(10g) = 0.536 W/kg
Maximum value of SAR (interpolated) = 1.40 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

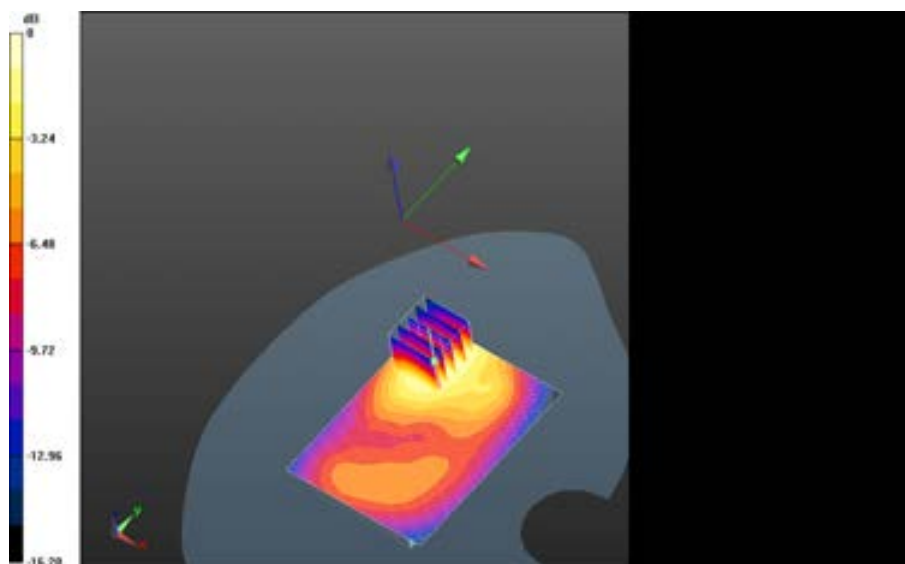
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 57(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Low_Chan_QPSK_RB100_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.704 V/m; **Power Drift = 0.021 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Low_Chan_QPSK_RB100_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C /Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.704 V/m; **Power Drift = 0.021 dB**

Averaged SAR: SAR(1g) = 0.890 W/kg; SAR(10g) = 0.525 W/kg
Maximum value of SAR (interpolated) = 1.36 W/kg

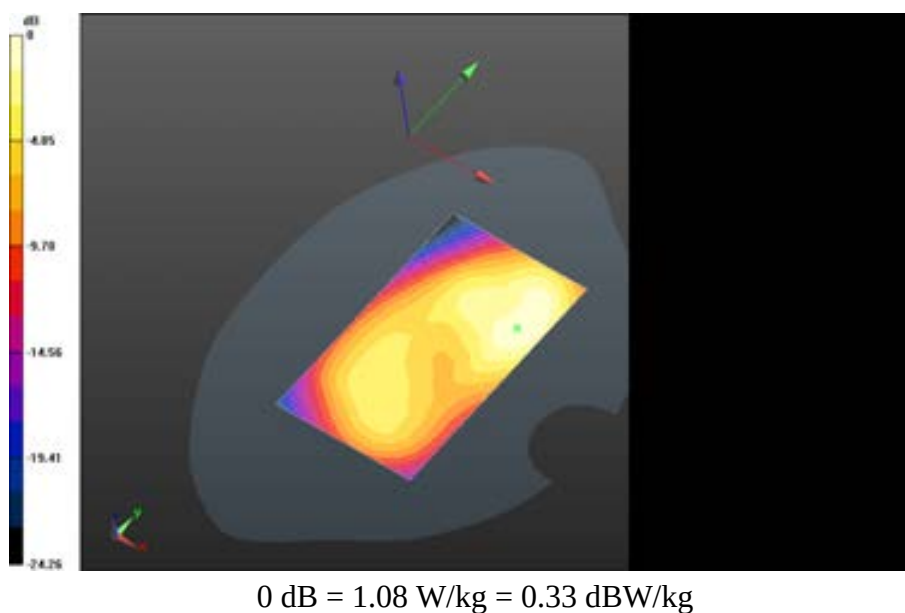


0 dB = 1.02 W/kg = 0.09 dBW/kg

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MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Front_LTE_4_Mid_Chan_QPSK_RB1_Offset0_Amb_Temp_23.7C_Liq_Temp_22.0C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.885 V/m; **Power Drift = 0.068 dB**

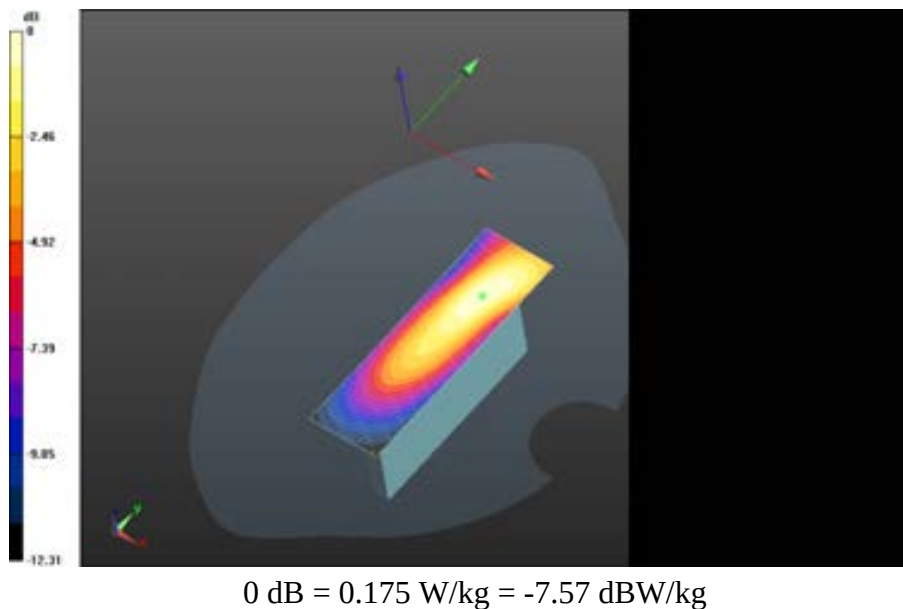
Fast SAR: SAR(1g) = 0.567 W/kg; SAR(10g) = 0.341 W/kg; Secondary SAR(1g) = 0.266 W/kg
Maximum value of SAR (interpolated) = 0.624 W/kg



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MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Left_LTE_4_Mid_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.703 V/m; **Power Drift = -0.049 dB**

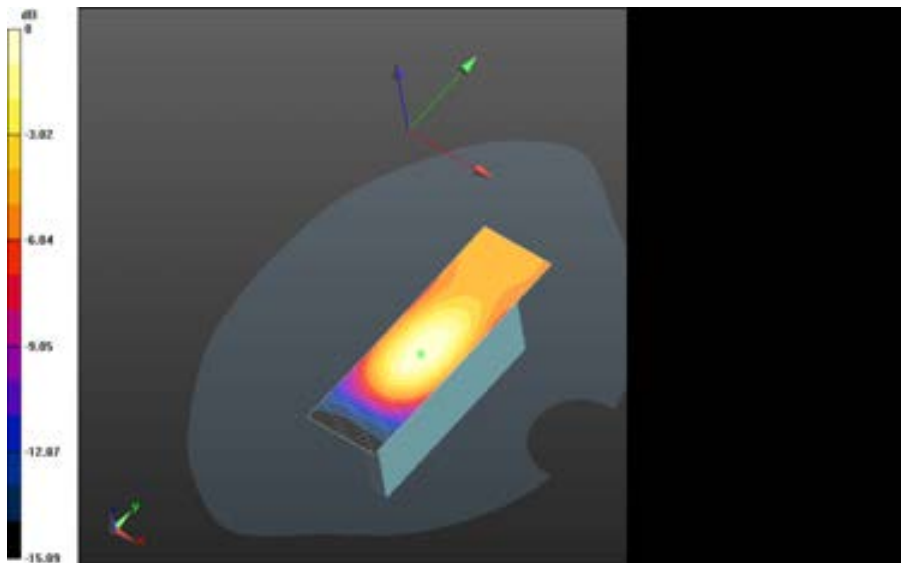
Fast SAR: SAR(1g) = 0.308 W/kg; SAR(10g) = 0.178 W/kg; Secondary SAR(1g) = 0.0628 W/kg
Maximum value of SAR (interpolated) = 0.348 W/kg



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MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Right_LTE_4_Mid_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.506 V/m; **Power Drift = 0.092 dB**

Fast SAR: SAR(1g) = 0.158 W/kg; SAR(10g) = 0.0943 W/kg; Secondary SAR(1g) = 0.0628 W/kg
Maximum value of SAR (interpolated) = 0.175 W/kg

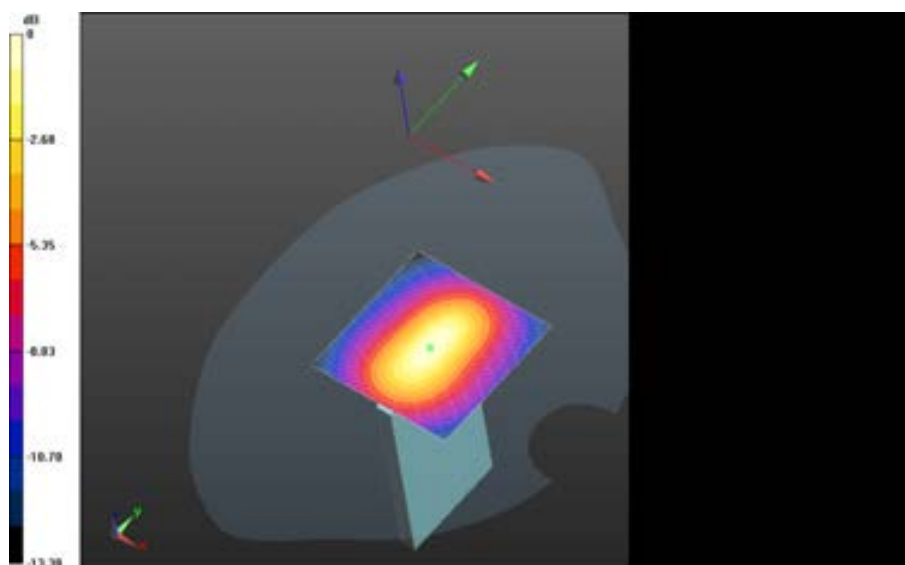


0 dB = 0.584 W/kg = -2.34 dBW/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Bottom_LTE
_4_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan
(61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.230 V/m; **Power Drift = -0.00268 dB**

Fast SAR: SAR(1g) = 0.517 W/kg; SAR(10g) = 0.295 W/kg; Secondary SAR(1g) =
0.266 W/kg
Maximum value of SAR (interpolated) = 0.584 W/kg



0 dB = 0.624 W/kg = -2.05 dBW/kg

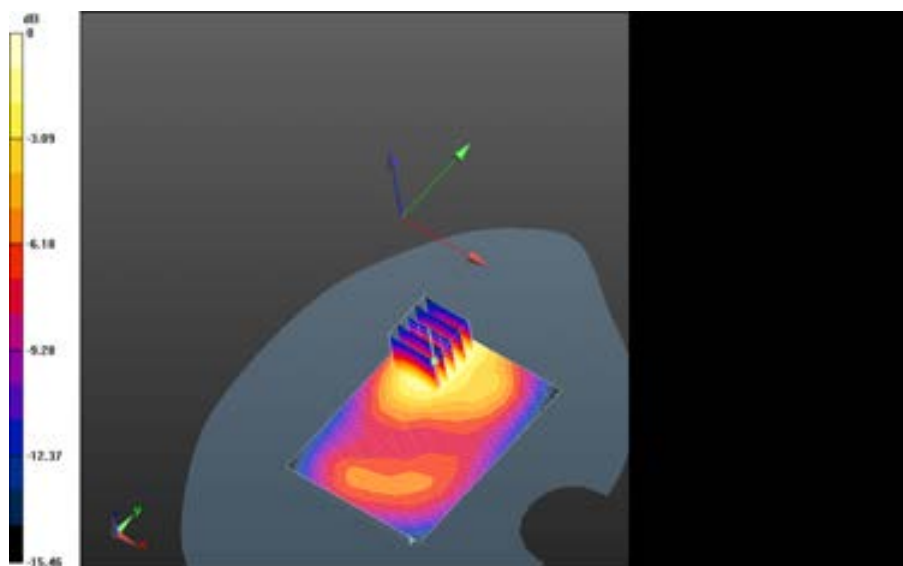
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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+HS_LTE_4_Md_Chann_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.734 V/m; **Power Drift = 0.116 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+HS_LTE_4_Md_Chann_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C /Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.734 V/m; **Power Drift = 0.116 dB**

Averaged SAR: SAR(1g) = 0.974 W/kg; SAR(10g) = 0.575 W/kg
Maximum value of SAR (interpolated) = 1.48 W/kg



0 dB = 0.996 W/kg = -0.02 dBW/kg

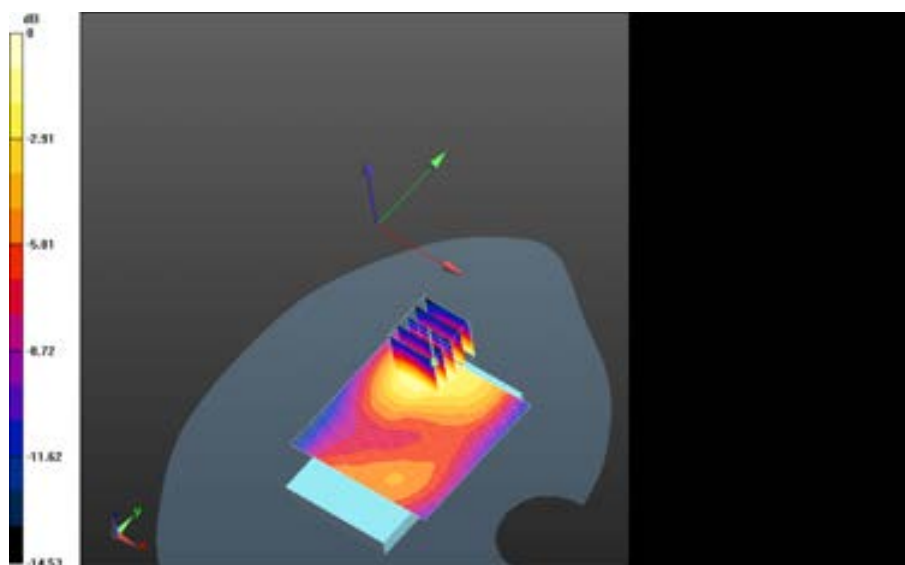
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 63(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+2100mA_LTE_4_Mid_Chann_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/ Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.539 V/m; **Power Drift = 0.172 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+2100mA_LTE_4_Mid_Chann_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 12.539 V/m; **Power Drift = 0.172 dB**

Averaged SAR: SAR(1g) = 0.913 W/kg; SAR(10g) = 0.544 W/kg
Maximum value of SAR (interpolated) = 1.38 W/kg



0 dB = 0.348 W/kg = -4.58 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 64(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date: 1/31/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2668C71D

Configuration: MHS_10mm_Body_SAR_Configuration

Communication System: LTE 4; Communication System Band: LTE 4; Frequency: 1745 MHz

Medium Parameters used: $f=1745$ MHz; $\sigma = 1.530$ S/m; $\epsilon_r = 51.403$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF: (4.75,4.75,4.75); Calibrated: 11/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_High_QPSK_RB1_Offset99_Amb_Temp_23.8C_Liq_Temp_22.0C/Area Scan

(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 12.586 V/m; **Power Drift = 0.122 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_High_QPSK_RB1_Offset99_Amb_Temp_23.8C_Liq_Temp_22.0C/Zoom

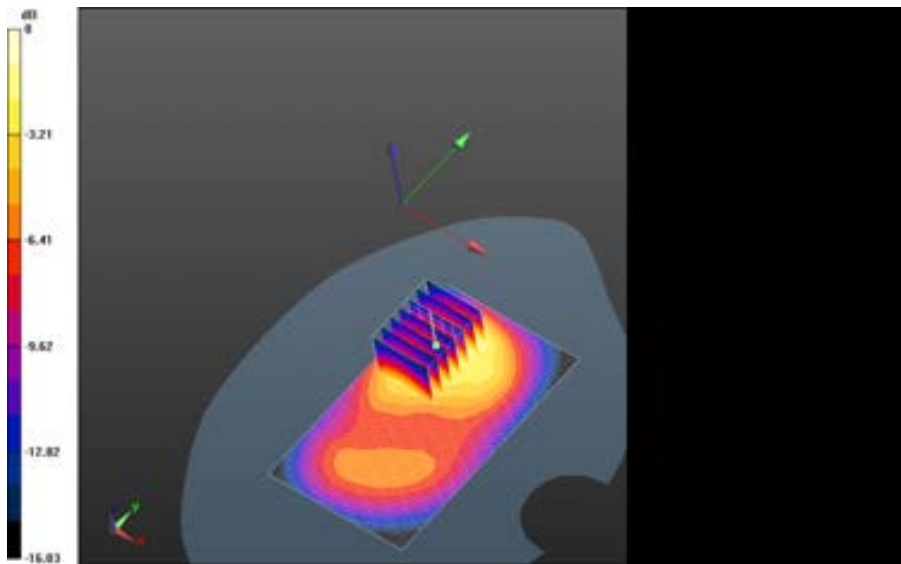
Scan (5x5x7) (26x31x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 12.586 V/m; **Power Drift = 0.122 dB**

Averaged SAR: SAR(1g) = 1.02 W/kg; SAR(10g) = 0.607 W/kg

Maximum value of SAR (interpolated) = 1.56 W/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 65(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW



0 dB = 1.13 W/kg = 0.53 dBW/kg

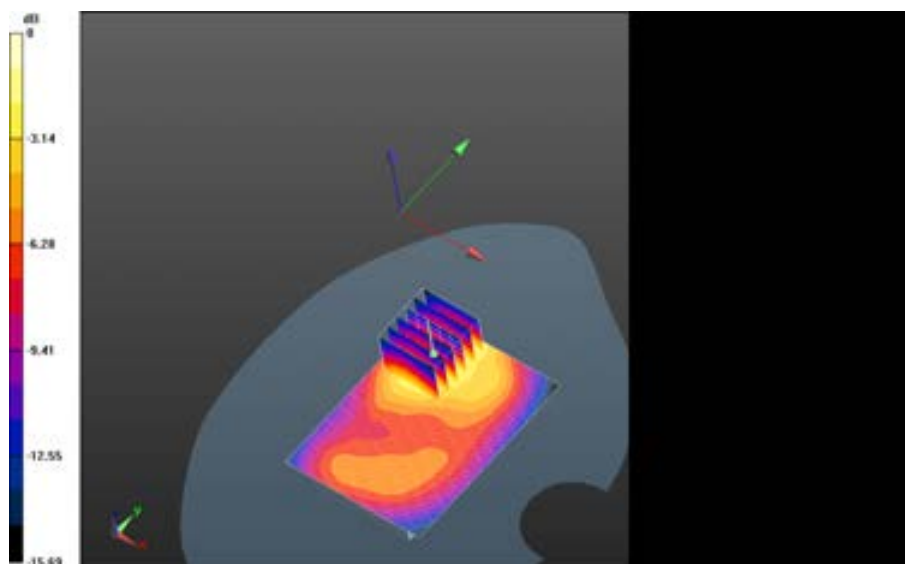
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 66(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Mid_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.951 V/m; **Power Drift = -0.029 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Mid_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Zoom Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 12.951 V/m; **Power Drift = -0.029 dB**

Averaged SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.609 W/kg
Maximum value of SAR (interpolated) = 1.59 W/kg



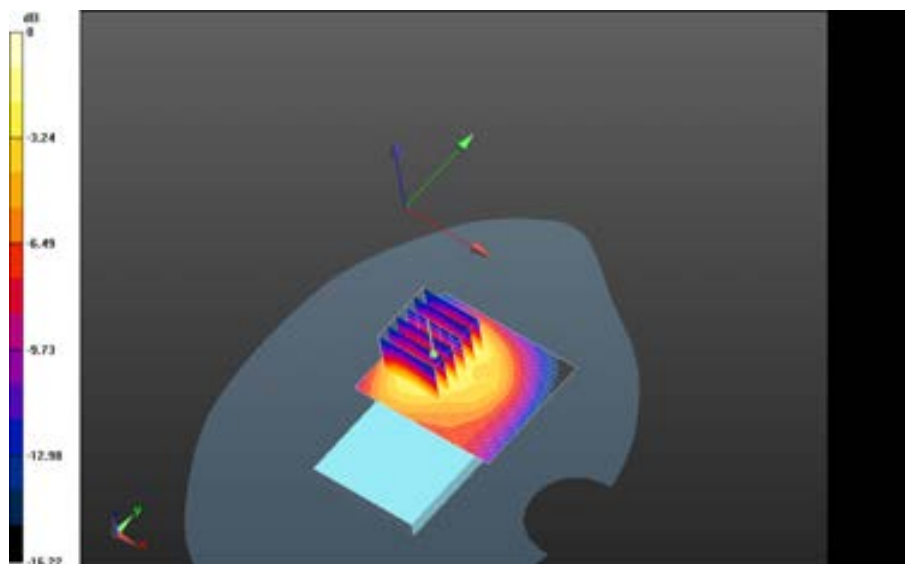
0 dB = 1.13 W/kg = 0.53 dBW/kg

	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 67(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_2nd Scan_Mid_Chan_QPSK_RB1_Offset0_Amb_Temp_23.5C_Liq_Temp_21.4C/Area Scan (61x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.07 W/kg

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_2nd Scan_Mid_Chan_QPSK_RB1_Offset0_Amb_Temp_23.5C_Liq_Temp_21.4C/Zoom Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 13.773 V/m; **Power Drift = -0.021 dB**

Averaged SAR: SAR(1g) = 1.01 W/kg; SAR(10g) = 0.596 W/kg
Maximum value of SAR (interpolated) = 1.56 W/kg



0 dB = 1.14 W/kg = 0.57 dBW/kg

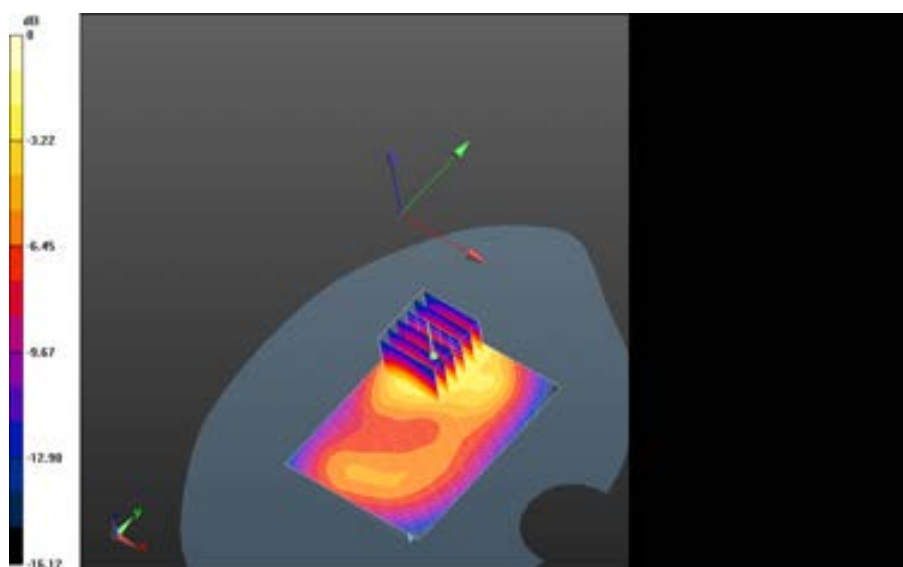
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 68(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Low_Chan_QPSK_RB1_Offset99_Amb_Temp_23.4C_Liq_Temp_21.9C 2/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.154 V/m; **Power Drift = -0.106 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Low_Chan_QPSK_RB1_Offset99_Amb_Temp_23.4C_Liq_Temp_21.9C 2/Zoom Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 13.154 V/m; **Power Drift = -0.106 dB**

Averaged SAR: SAR(1g) = 1.03 W/kg; SAR(10g) = 0.609 W/kg
Maximum value of SAR (interpolated) = 1.56 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

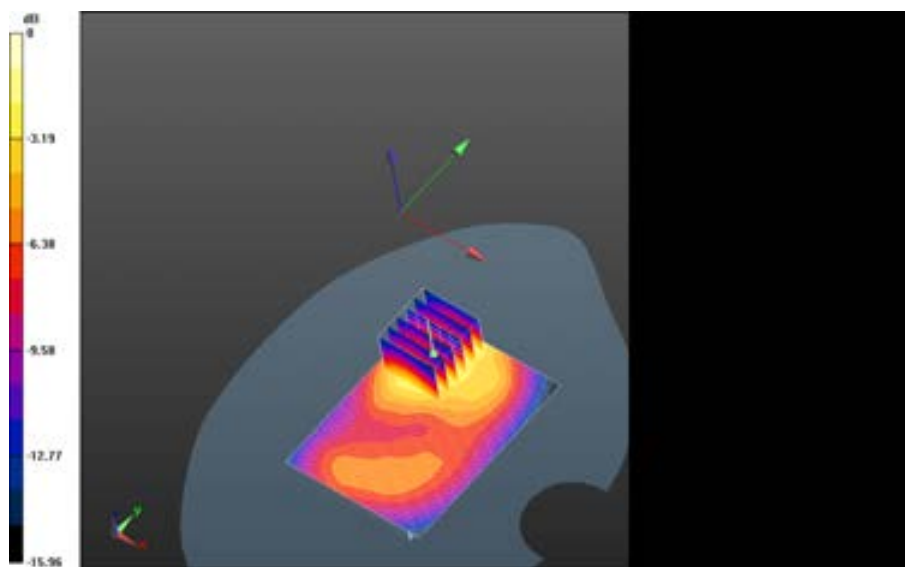
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 69(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Low_Chan_QPSK_RB50_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.443 V/m; **Power Drift = 0.053 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Low_Chan_QPSK_RB50_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Zoom Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.443 V/m; **Power Drift = 0.053 dB**

Averaged SAR: SAR(1g) = 0.865 W/kg; SAR(10g) = 0.508 W/kg
Maximum value of SAR (interpolated) = 1.33 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

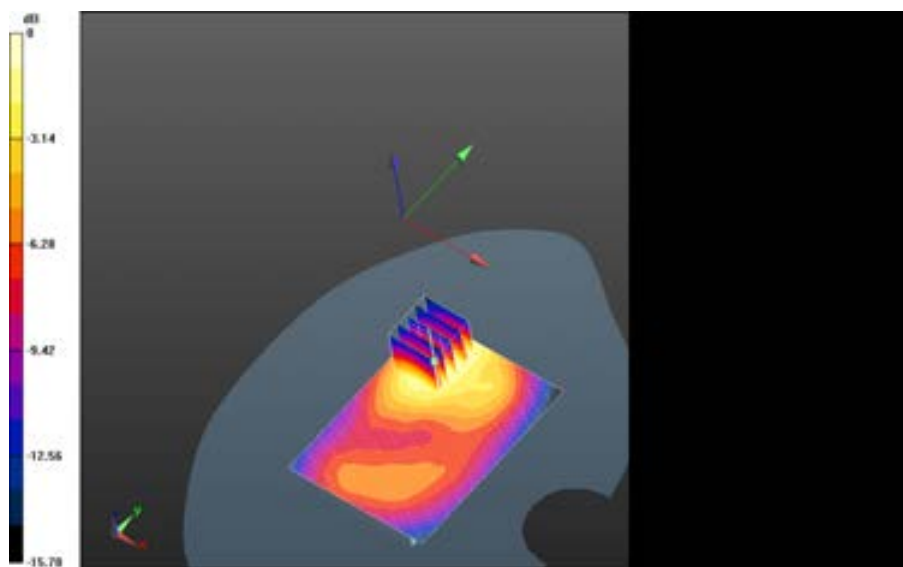
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 70(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Mid_Chan_QPSK_RB50_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.787 V/m; **Power Drift = -0.045 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Mid_Chan_QPSK_RB50_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.787 V/m; **Power Drift = -0.045 dB**

Averaged SAR: SAR(1g) = 0.902 W/kg; SAR(10g) = 0.533 W/kg
Maximum value of SAR (interpolated) = 1.39 W/kg



0 dB = 0.963 W/kg = -0.16 dBW/kg

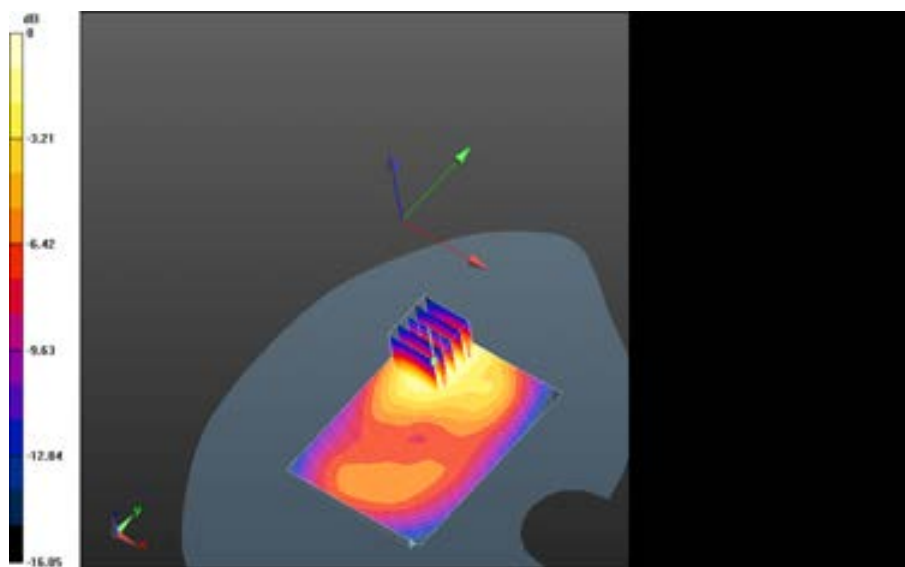
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 71(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_High_Chan_QPSK_RB50_Offset50_Amb_Temp_23.4C_Liq_Temp_21.9C 2/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.751 V/m; **Power Drift = -0.014 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_High_Chan_QPSK_RB50_Offset50_Amb_Temp_23.4C_Liq_Temp_21.9C 2/Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.751 V/m; **Power Drift = -0.014 dB**

Averaged SAR: SAR(1g) = 0.907 W/kg; SAR(10g) = 0.536 W/kg
Maximum value of SAR (interpolated) = 1.40 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

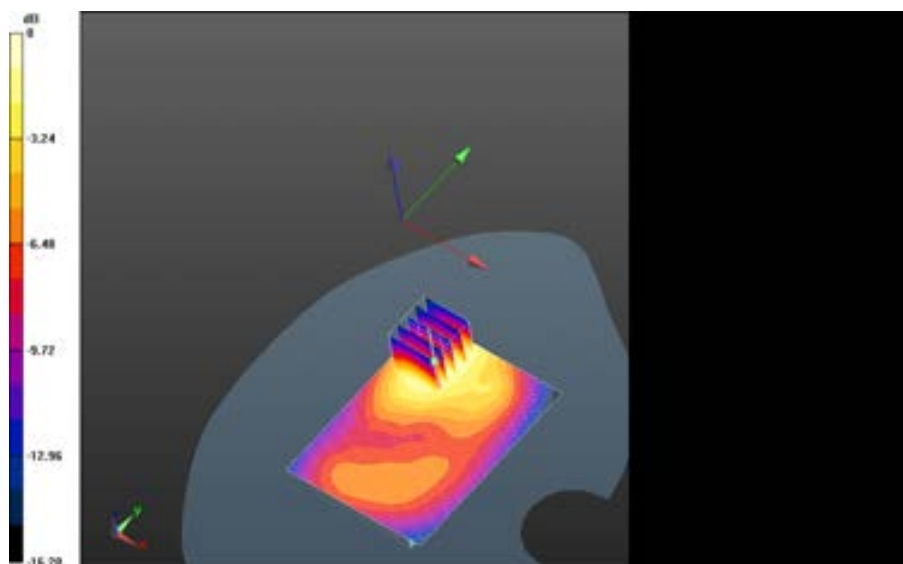
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 72(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Low_Chan_QPSK_RB100_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.704 V/m; **Power Drift = 0.021 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_LTE_4_Low_Chan_QPSK_RB100_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C /Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.704 V/m; **Power Drift = 0.021 dB**

Averaged SAR: SAR(1g) = 0.890 W/kg; SAR(10g) = 0.525 W/kg
Maximum value of SAR (interpolated) = 1.36 W/kg

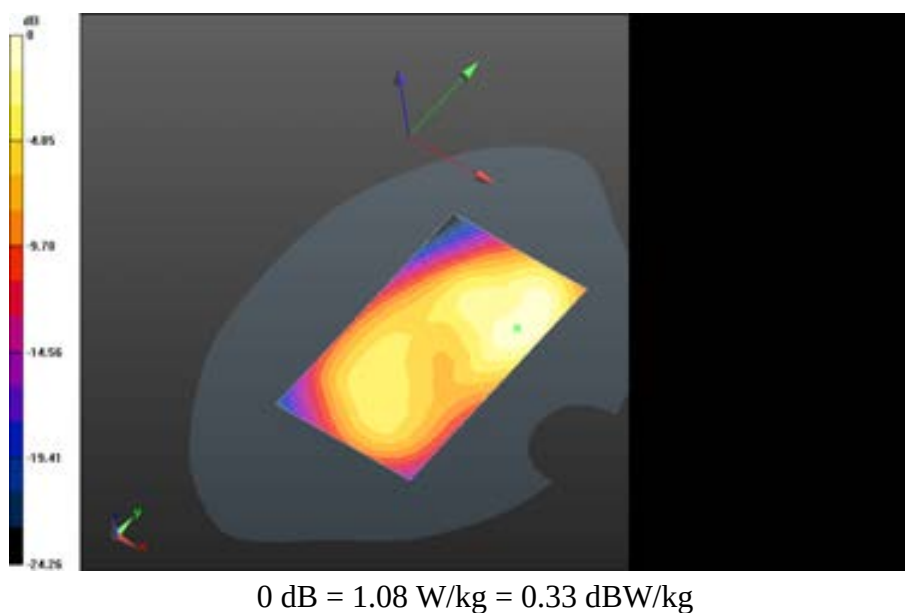


0 dB = 1.02 W/kg = 0.09 dBW/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Front_LTE_4_Mid_Chan_QPSK_RB1_Offset0_Amb_Temp_23.7C_Liq_Temp_22.0C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.885 V/m; **Power Drift = 0.068 dB**

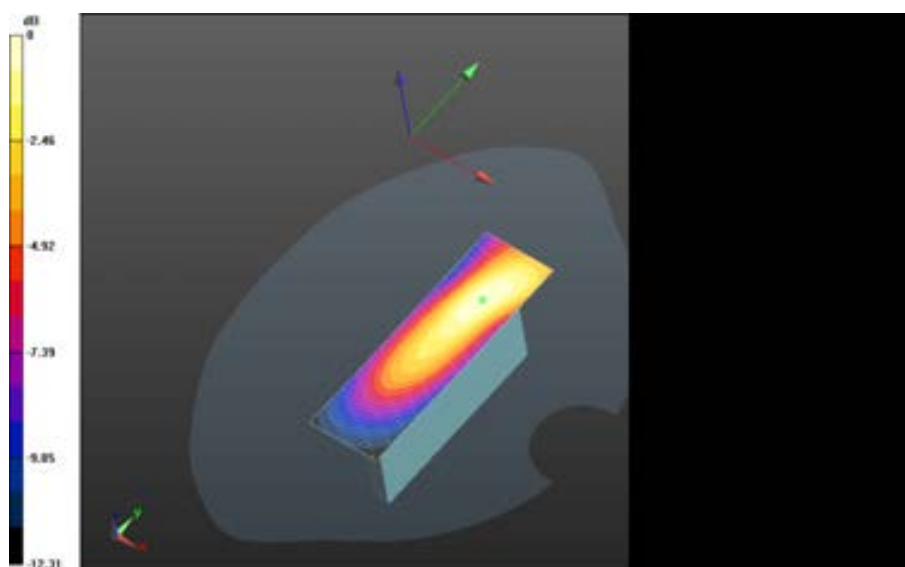
Fast SAR: SAR(1g) = 0.567 W/kg; SAR(10g) = 0.341 W/kg; Secondary SAR(1g) = 0.266 W/kg
Maximum value of SAR (interpolated) = 0.624 W/kg



	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 74(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Left_LTE_4_Mid_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.703 V/m; **Power Drift = -0.049 dB**

Fast SAR: SAR(1g) = 0.308 W/kg; SAR(10g) = 0.178 W/kg; Secondary SAR(1g) = 0.0628 W/kg
Maximum value of SAR (interpolated) = 0.348 W/kg

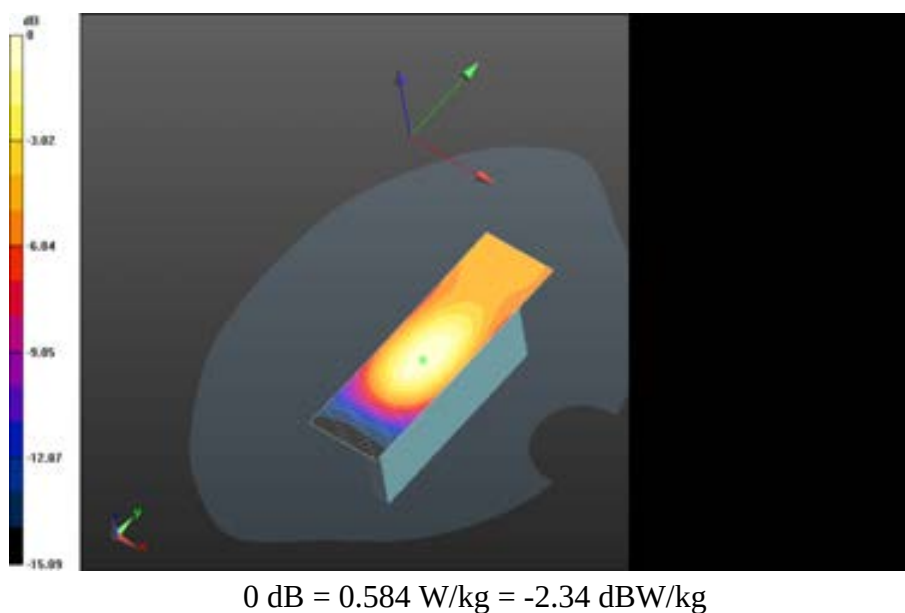


0 dB = 0.175 W/kg = -7.57 dBW/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Right_LTE_4_Mid_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.506 V/m; **Power Drift = 0.092 dB**

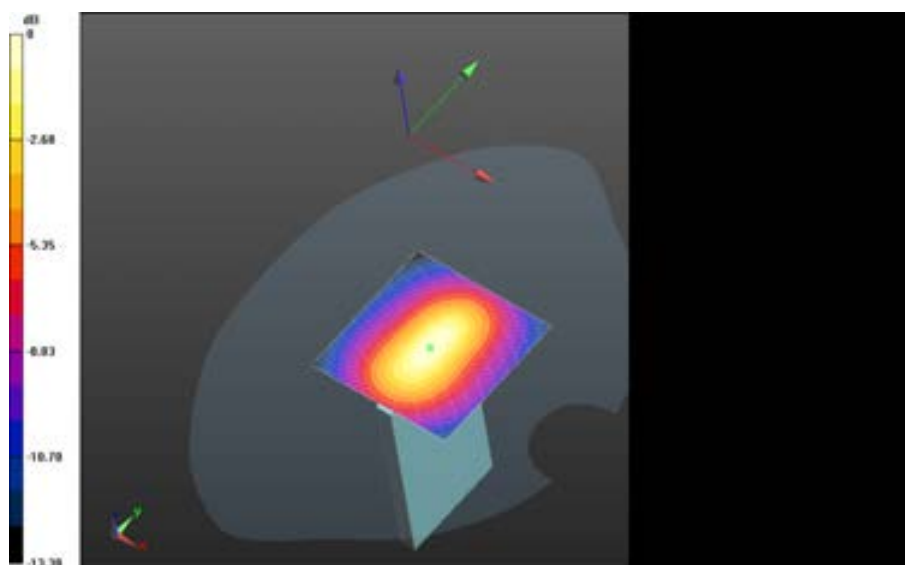
Fast SAR: SAR(1g) = 0.158 W/kg; SAR(10g) = 0.0943 W/kg; Secondary SAR(1g) = 0.0628 W/kg
Maximum value of SAR (interpolated) = 0.175 W/kg



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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Bottom_LTE
_4_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan
(61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.230 V/m; **Power Drift = -0.00268 dB**

Fast SAR: SAR(1g) = 0.517 W/kg; SAR(10g) = 0.295 W/kg; Secondary SAR(1g) =
0.266 W/kg
Maximum value of SAR (interpolated) = 0.584 W/kg



0 dB = 0.624 W/kg = -2.05 dBW/kg

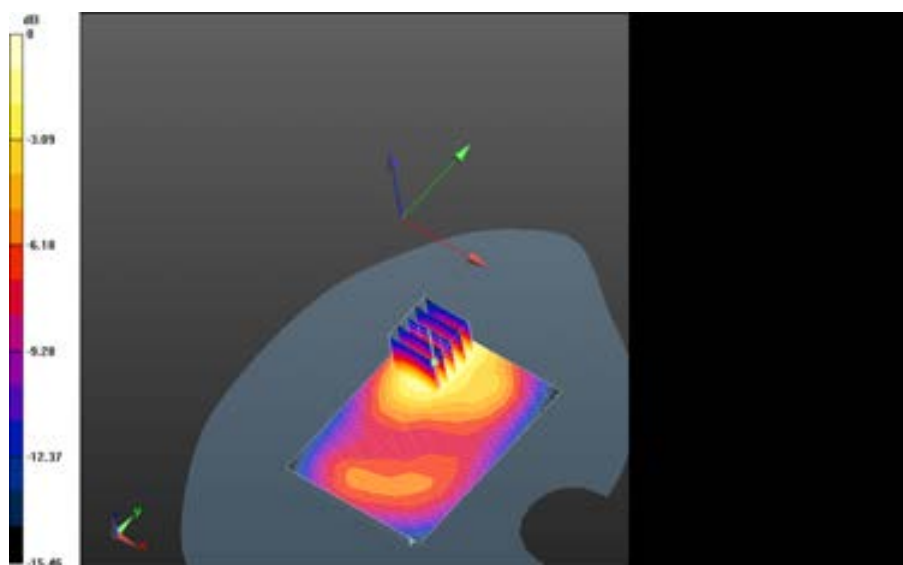
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 77(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+HS_LTE_4_Md_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.734 V/m; **Power Drift = 0.116 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+HS_LTE_4_Md_Chan_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_21.9C /Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.734 V/m; **Power Drift = 0.116 dB**

Averaged SAR: SAR(1g) = 0.974 W/kg; SAR(10g) = 0.575 W/kg
Maximum value of SAR (interpolated) = 1.48 W/kg



0 dB = 0.996 W/kg = -0.02 dBW/kg

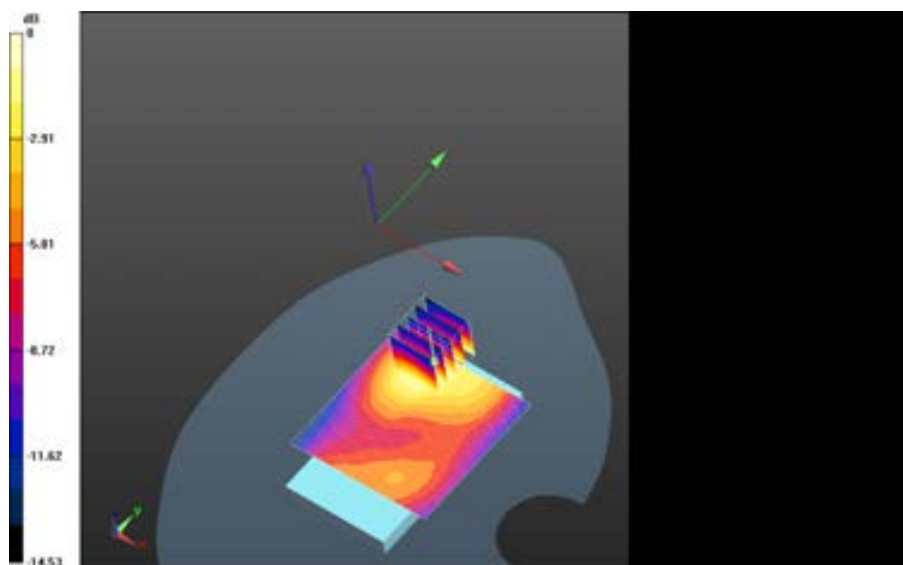
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 78(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+2100mA_LTE_4_Mid_Chann_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/ Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.539 V/m; **Power Drift = 0.172 dB**

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+2100mA_LTE_4_Mid_Chann_QPSK_RB1_Offset0_Amb_Temp_23.4C_Liq_Temp_22.3C/Zoom Scan (5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 12.539 V/m; **Power Drift = 0.172 dB**

Averaged SAR: SAR(1g) = 0.913 W/kg; SAR(10g) = 0.544 W/kg
Maximum value of SAR (interpolated) = 1.38 W/kg



0 dB = 0.348 W/kg = -4.58 dBW/kg

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 80(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

LTE 2

	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 81(166)
Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 12/3/2012 3:48:34 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_high_chan_QPSK_RB_1_Offset_99_amb_temp_23.4_liq_temp_21.9C

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

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.511$ mho/m; $\epsilon_r = 51.986$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.458 mW/g

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

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

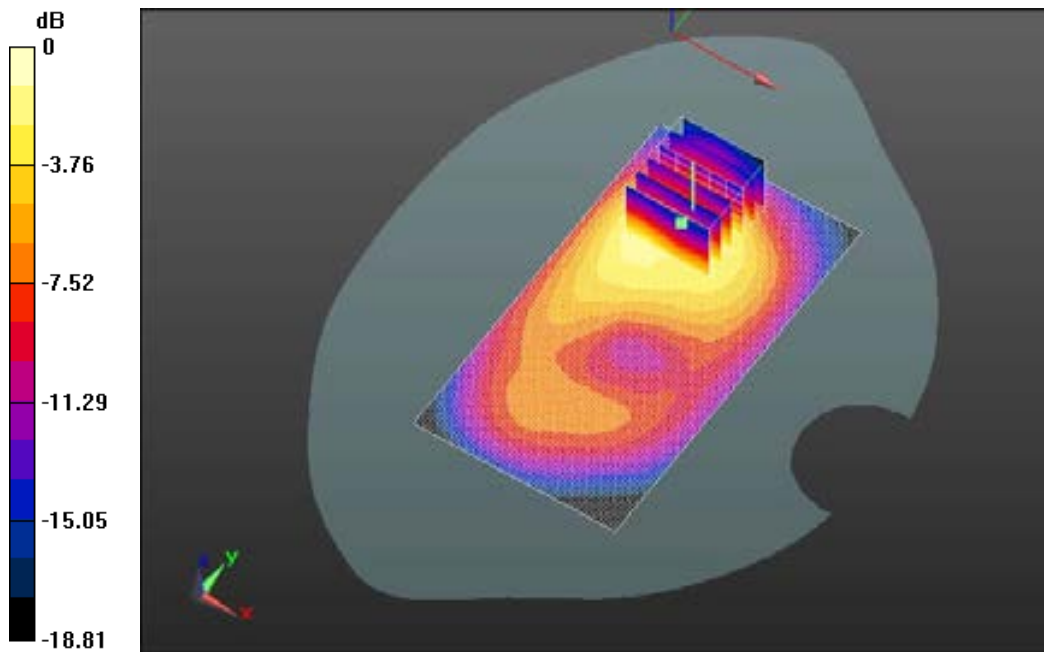
Reference Value = 10.800 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.9570

SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.631 mW/g

Maximum value of SAR (measured) = 1.333 mW/g

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0 dB = 1.330mW/g = 2.48 dB mW/g

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Author Data Andrew Becker	Dates of Test Nov 22 2012 – Feb 28 2013 December 10 – 12, 2014	Test Report No RTS-6026-1302-13 Rev 3	FCC ID: L6ARFL110LW	IC 2503A-RFL110LW

Date/Time: 1/24/2013 3:49:09 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_low_chan_QPSK_RB_1_Offset_0_a
mb_temp_24.3_liq_temp_22.1C

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: $f = 1860 \text{ MHz}$; $\sigma = 1.538 \text{ S/m}$; $\epsilon_r = 50.941$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

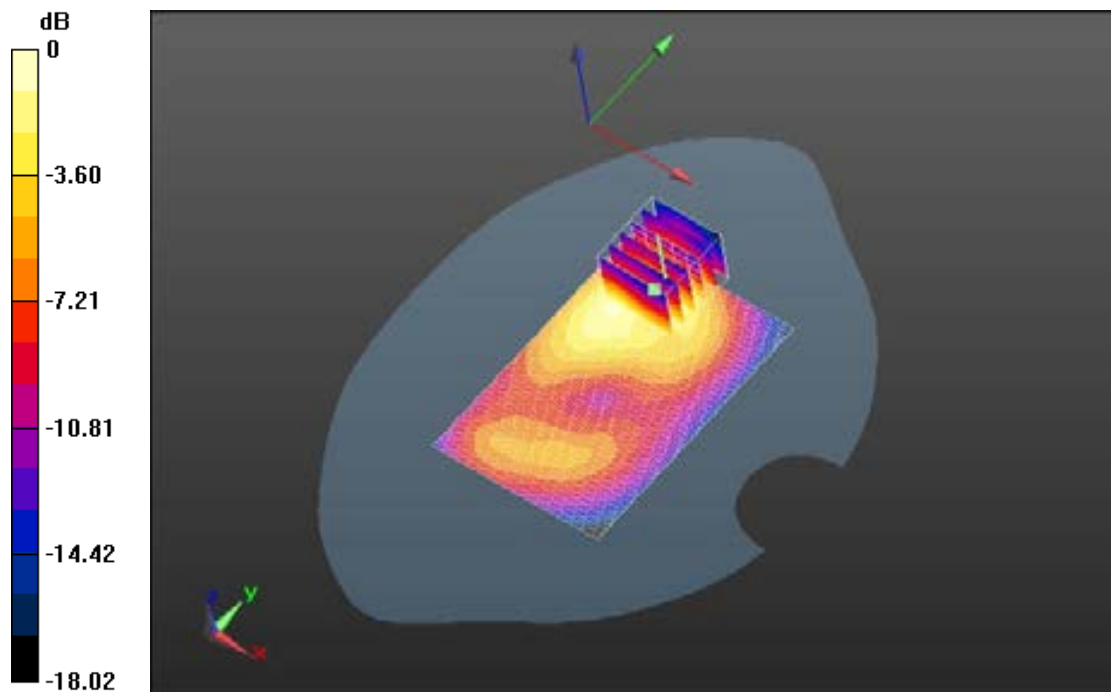
DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.75, 4.75, 4.75); Calibrated: 11/13/2012;
 - o Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Touch position -/Area Scan (61x111x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.08 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 = 9.419 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.51 W/kg
SAR(1 g) = 0.974 W/kg; SAR(10 g) = 0.554 W/kg
Maximum value of SAR (measured) = 1.04 W/kg

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$$0 \text{ dB} = 1.04 \text{ W/kg} = 0.17 \text{ dBW/kg}$$

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Date/Time: 12/3/2012 2:22:15 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_low_chan_QPSK_RB_1_Offset_99_amb_temp_23.5_liq_temp_21.9C

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

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

Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.463 \text{ mho/m}$; $\epsilon_r = 52.302$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.92, 4.92, 4.92); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

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

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

Maximum value of SAR (interpolated) = 1.154 mW/g

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

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

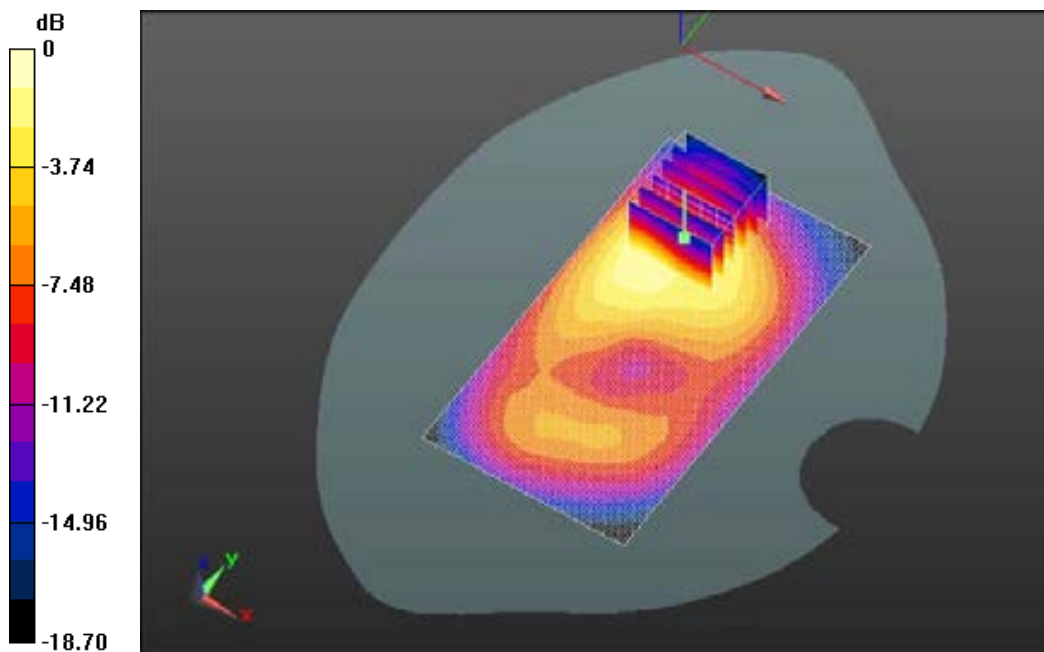
Reference Value = 10.644 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.4500

SAR(1 g) = 0.875 mW/g; SAR(10 g) = 0.488 mW/g

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

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

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Date/Time: 12/2/2012 7:40:49 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_mid_chan_QPSK_RB_1_Offset_0_a
mb_temp_24.3_liq_temp_22.1C

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

Communication System: LTE 1900_Band 2; Frequency: 1880 MHz
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.487$ mho/m; $\epsilon_r = 52.143$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.265 mW/g

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

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

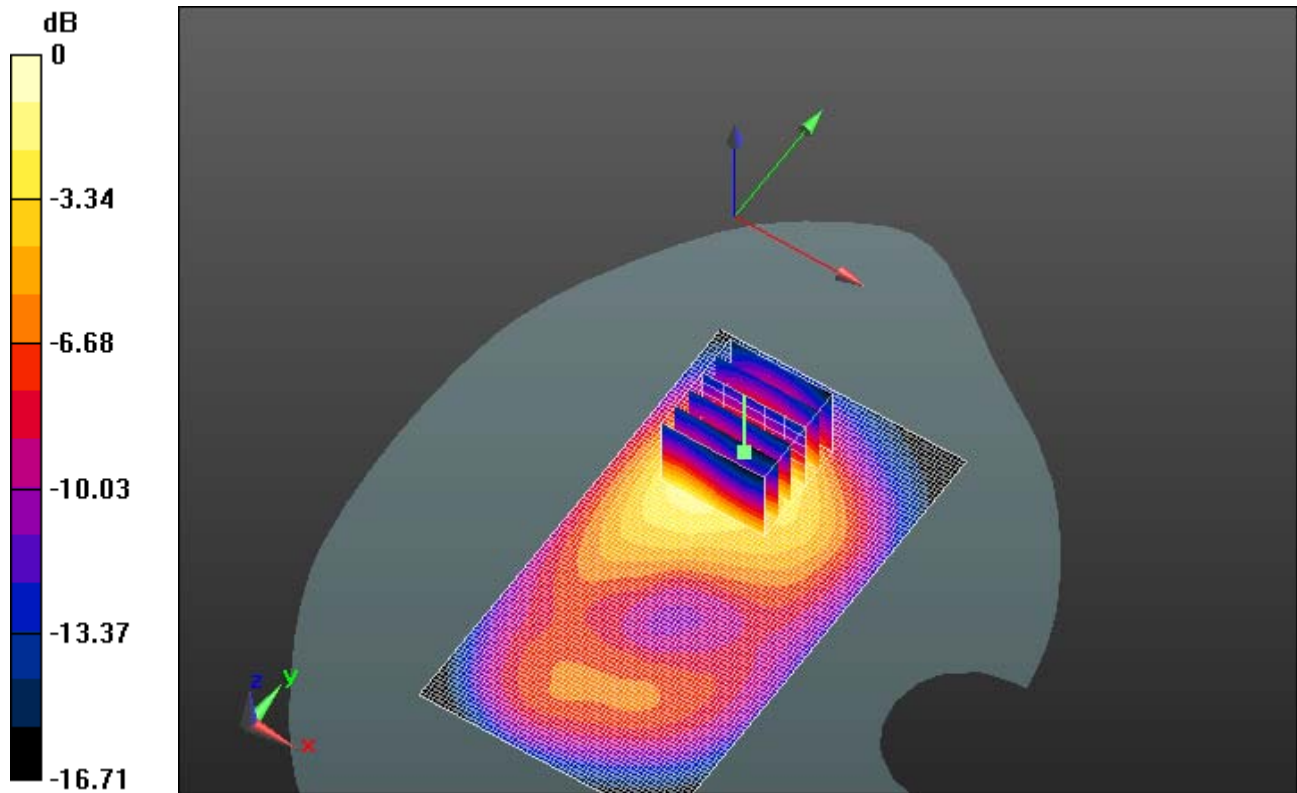
Reference Value = 11.079 V/m; Power Drift = 0.34 dB

Peak SAR (extrapolated) = 1.5940

SAR(1 g) = 0.944 mW/g; SAR(10 g) = 0.523 mW/g

Maximum value of SAR (measured) = 1.165 mW/g

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0 dB = 1.160mW/g = 1.29 dB mW/g

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Date/Time: 12/2/2012 8:03:45 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_mid_chan_QPSK_RB_1_Offset_99_amb_temp_24.3_liq_temp_22.1C

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

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

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.487 \text{ mho/m}$; $\epsilon_r = 52.143$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.348 mW/g

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

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

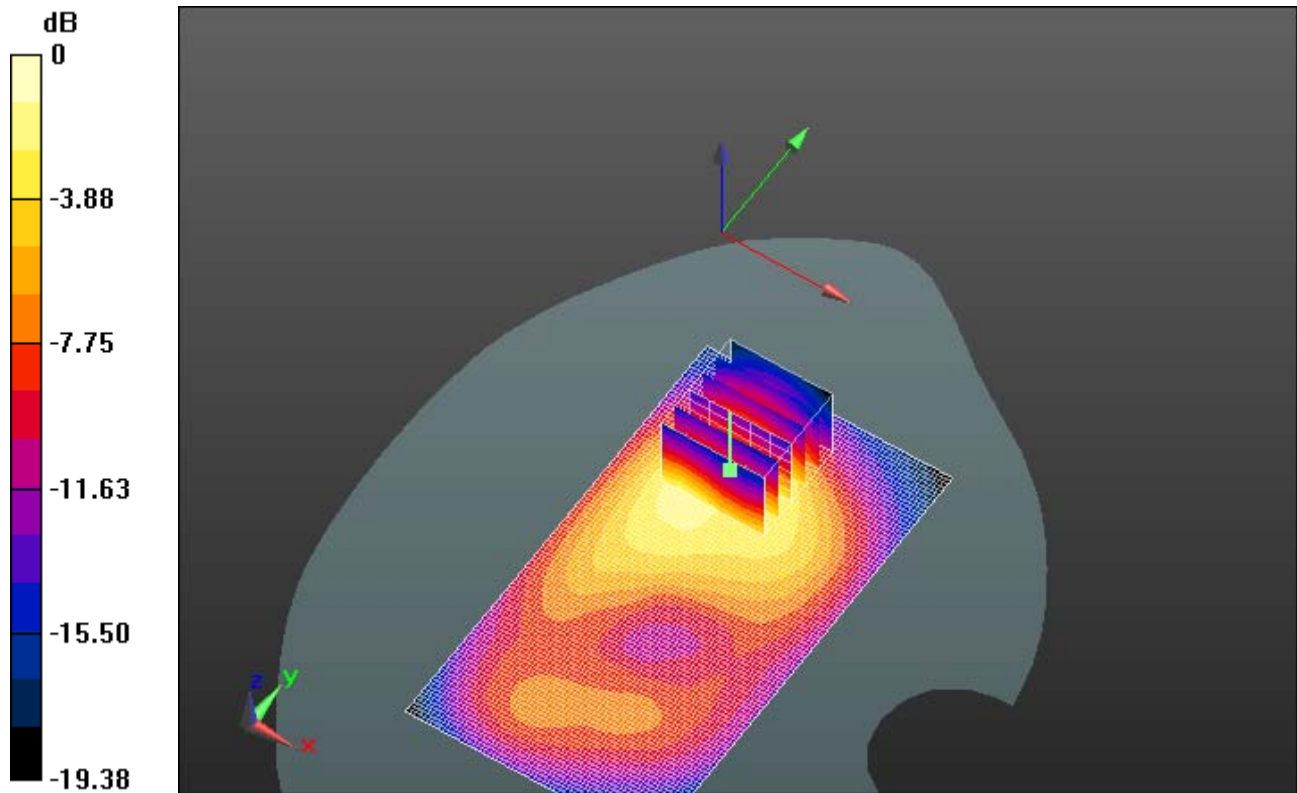
Reference Value = 12.046 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 1.7540

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.563 mW/g

Maximum value of SAR (measured) = 1.287 mW/g

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0 dB = 1.290mW/g = 2.21 dB mW/g

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Date/Time: 12/2/2012 8:29:15 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_mid_chan_QPSK_RB_50_Offset_0_amb_temp_24.0_liq_temp_22.2C

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

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

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.487 \text{ mho/m}$; $\epsilon_r = 52.143$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.015 mW/g

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

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

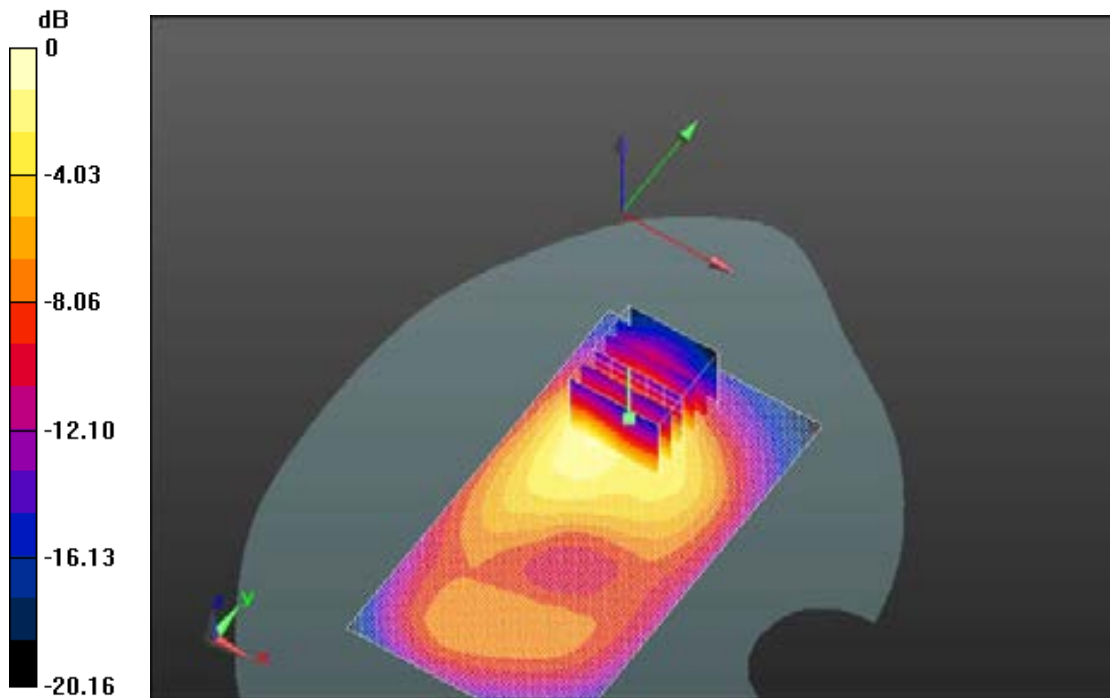
Reference Value = 10.812 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 1.3050

SAR(1 g) = 0.768 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (measured) = 0.960 mW/g

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0 dB = 0.960mW/g = -0.35 dB mW/g

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Date/Time: 1/29/2013 7:27:42 PM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_low_chan_QPSK_RB_100_Offset_0
_amb_temp_23.1_liq_temp_20.7C

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

Communication System: LTE band 2; Frequency: 1860 MHz
Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.52 \text{ S/m}$; $\epsilon_r = 50.946$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.75, 4.75, 4.75); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

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

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

Maximum value of SAR (interpolated) = 0.812 W/kg

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

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

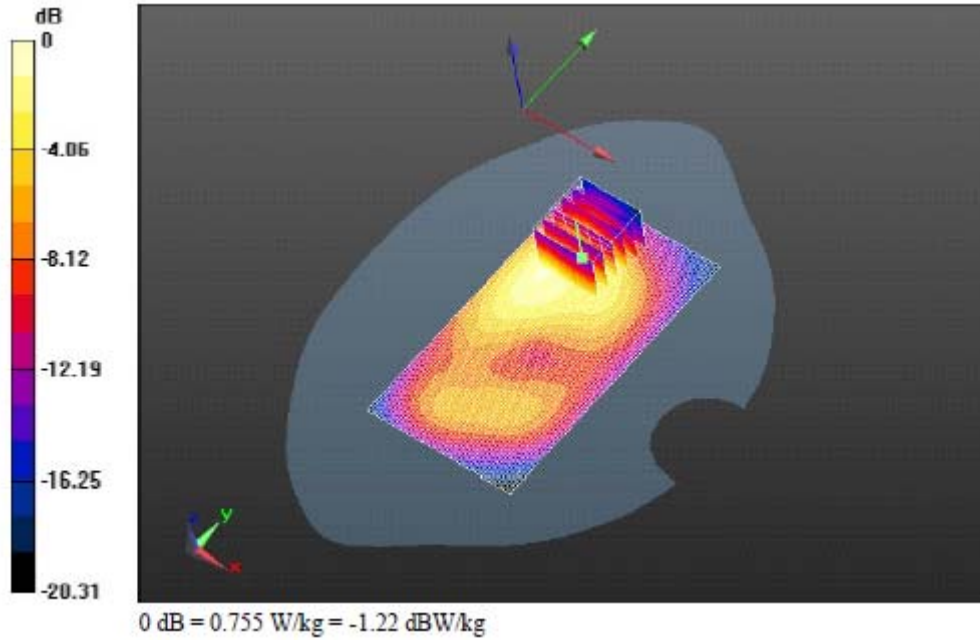
Reference Value = 8.816 V/m; Power Drift = 0.29 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.676 W/kg; SAR(10 g) = 0.388 W/kg

Maximum value of SAR (measured) = 0.755 W/kg

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0 dB = 0.755 W/kg = -1.22 dBW/kg

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Date/Time: 12/3/2012 8:00:14 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Bottom_LTE_2_mid_chan_QPSK_RB_1_Offset_9
9_amb_temp_23.9_liq_temp_21.2C**

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

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

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.487 \text{ mho/m}$; $\epsilon_r = 52.143$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

Configuration/Touch position -/Area Scan (31x61x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.934 mW/g

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

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

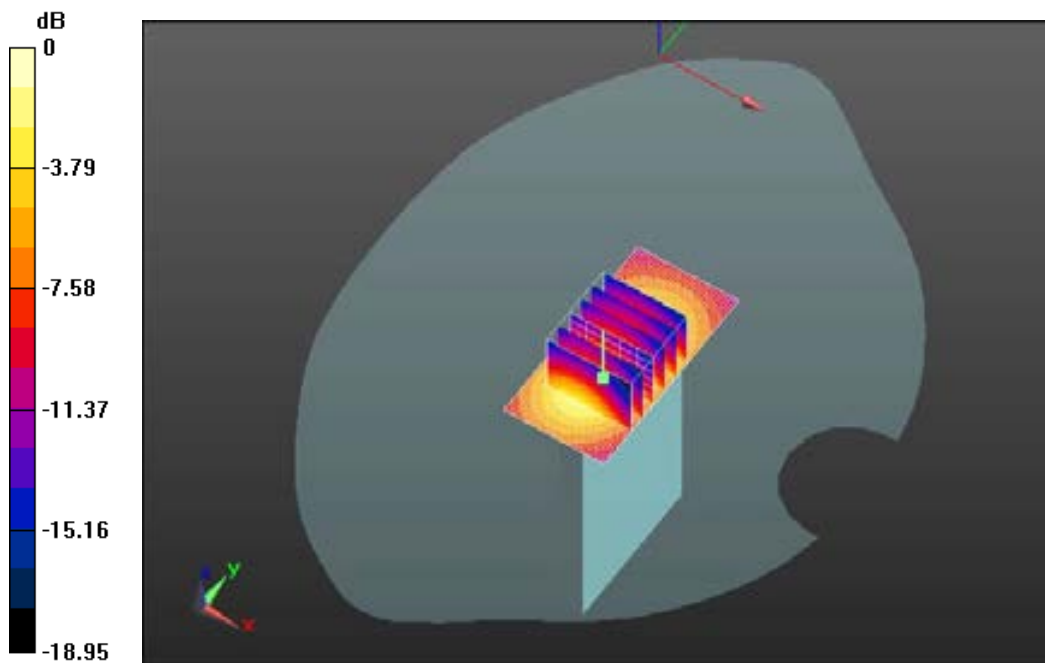
Reference Value = 24.192 V/m ; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.3070

SAR(1 g) = 0.786 mW/g ; SAR(10 g) = 0.439 mW/g

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

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$$0 \text{ dB} = 0.970 \text{ mW/g} = -0.26 \text{ dB mW/g}$$

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Date/Time: 12/3/2012 6:36:34 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Front_LTE_2_mid_chan_QPSK_RB_1_Offset_99_amb_temp_23.6_liq_temp_21.2C

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

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

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.487 \text{ mho/m}$; $\epsilon_r = 52.143$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.712 mW/g

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

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

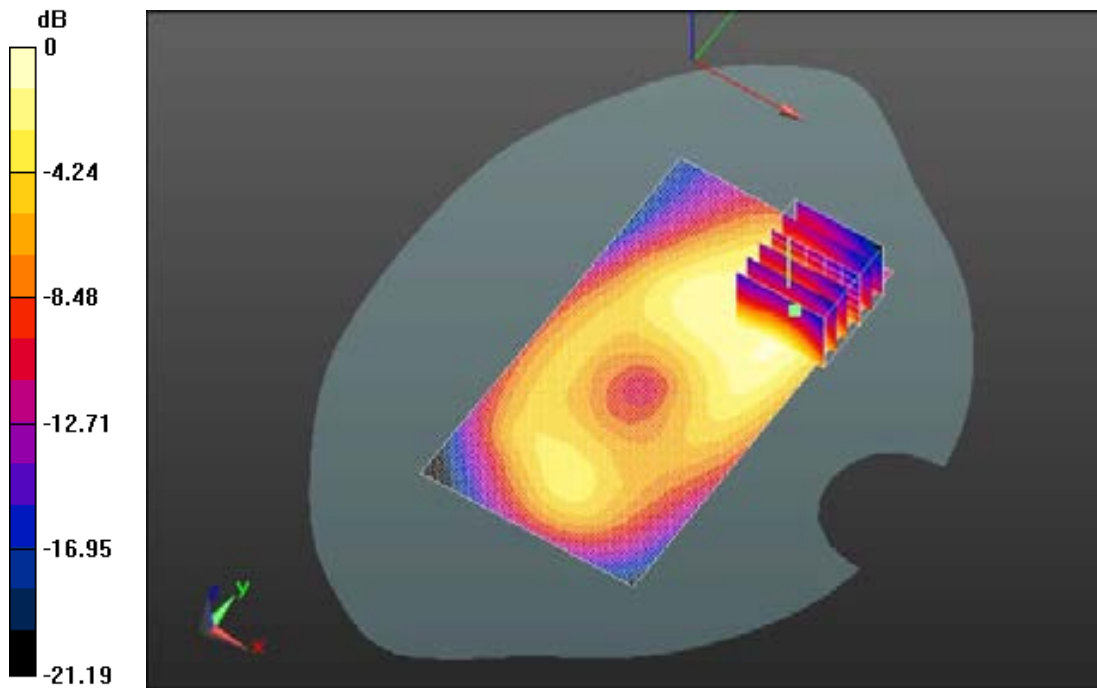
Reference Value = 7.675 V/m; Power Drift = 0.22 dB

Peak SAR (extrapolated) = 1.0060

SAR(1 g) = 0.611 mW/g; SAR(10 g) = 0.343 mW/g

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

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

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Date/Time: 12/3/2012 7:34:48 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Left_LTE_2_mid_chan_QPSK_RB_1_Offset_99_a
mb_temp_23.7_liq_temp_21.2C

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

Communication System: LTE 1900_Band 2; Frequency: 1880 MHz
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.487$ mho/m; $\epsilon_r = 52.143$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

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

Configuration/Touch position -/Area Scan (31x111x1): Measurement grid:

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

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

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

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

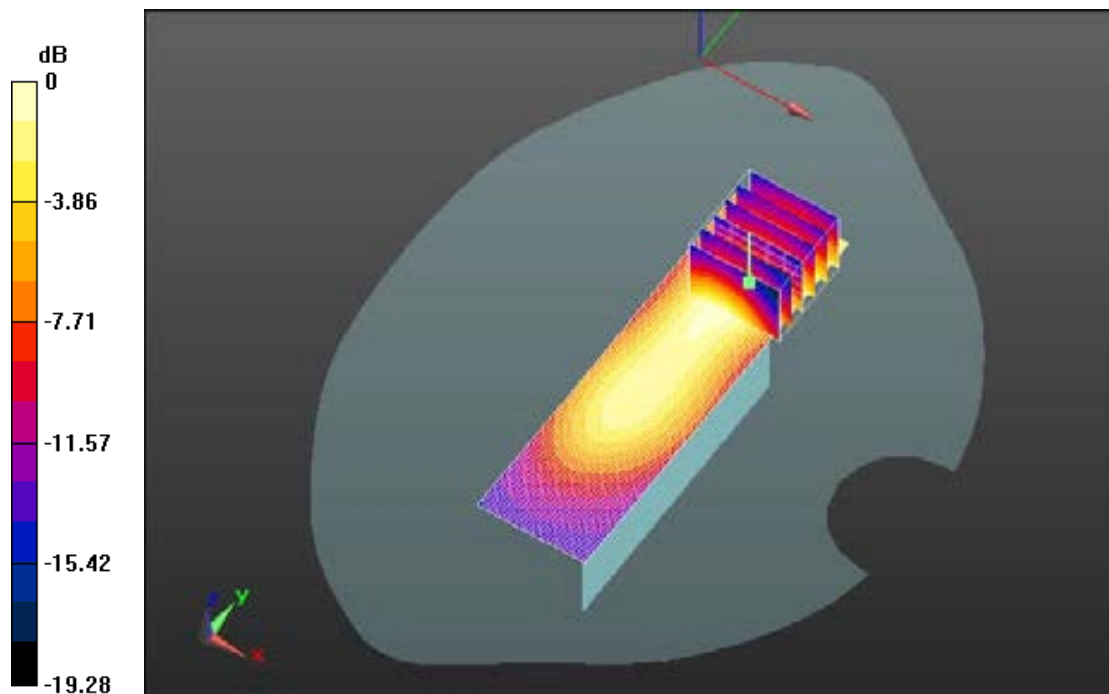
Reference Value = 15.026 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.5820

SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.197 mW/g

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

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$$0 \text{ dB} = 0.420 \text{ mW/g} = -7.54 \text{ dB mW/g}$$

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Date/Time: 12/3/2012 7:10:40 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_LTE_2_mid_chan_QPSK_RB_1_Offset_99_amb_temp_23.6_liq_temp_21.2C

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

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

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.487 \text{ mho/m}$; $\epsilon_r = 52.143$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

Configuration/Touch position -/Area Scan (31x111x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.177 mW/g

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

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

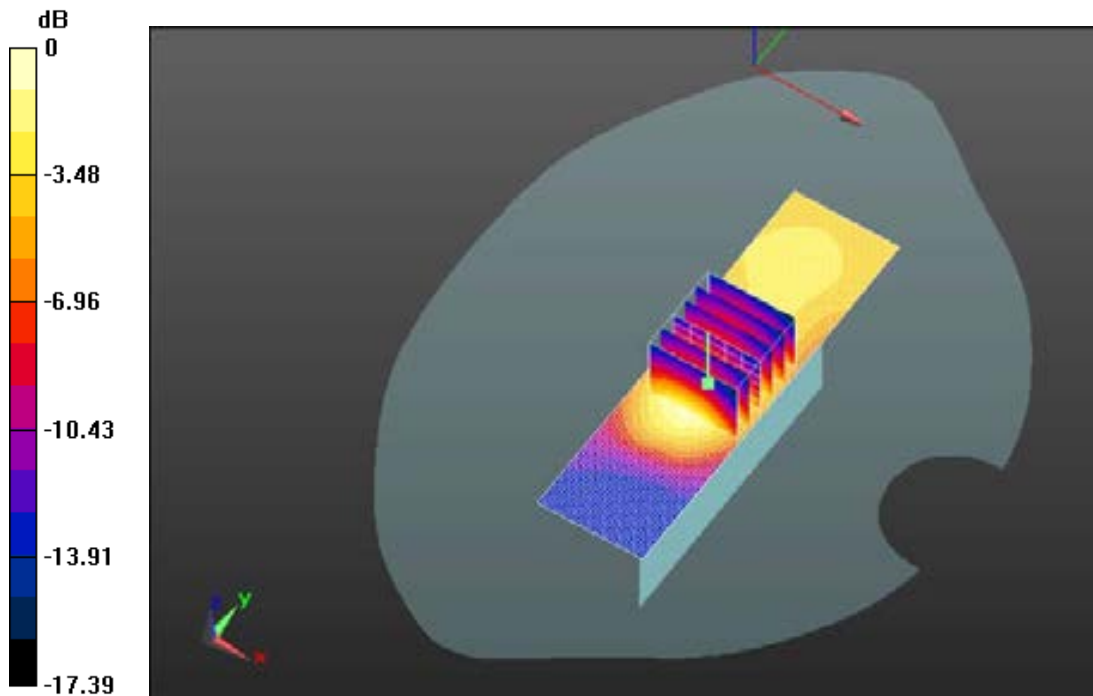
Reference Value = 11.579 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.2370

SAR(1 g) = 0.146 mW/g; SAR(10 g) = 0.087 mW/g

Maximum value of SAR (measured) = 0.175 mW/g

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$$0 \text{ dB} = 0.170 \text{ mW/g} = -15.39 \text{ dB mW/g}$$

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Date/Time: 12/4/2012 3:38:34 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_Headset_LTE_2_high_chan_QPSK_RB_1_
Offset_99_amb_temp_24.1_liq_temp_22.6C**

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

Communication System: LTE 1900_Band 2; Frequency: 1900 MHz
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.511$ mho/m; $\epsilon_r = 51.986$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.200 mW/g

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

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

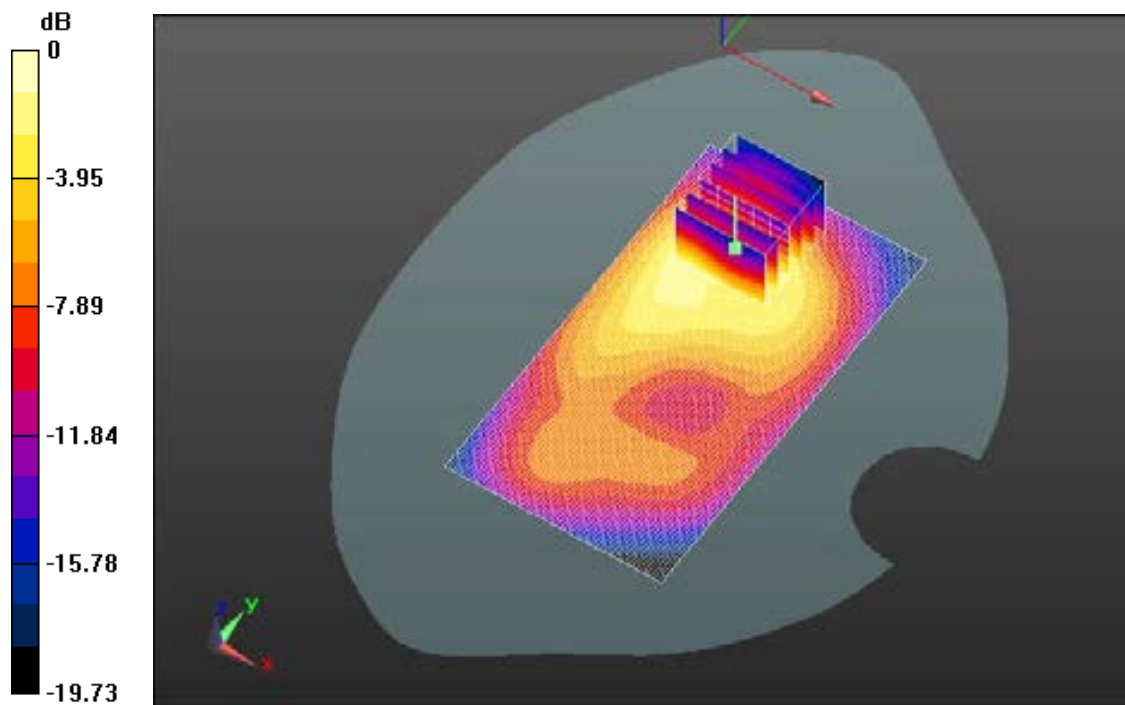
Reference Value = 11.577 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.5870

SAR(1 g) = 0.936 mW/g; SAR(10 g) = 0.516 mW/g

Maximum value of SAR (measured) = 1.144 mW/g

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$$0 \text{ dB} = 1.140 \text{ mW/g} = 1.14 \text{ dB mW/g}$$

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Date/Time: 12/4/2012 4:30:38 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_high_chan_2nd

Scan_QPSK_RB_1_Offset_99_amb_temp_24.1_liq_temp_22.6C

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

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.511$ mho/m; $\epsilon_r = 51.986$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.452 mW/g

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

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

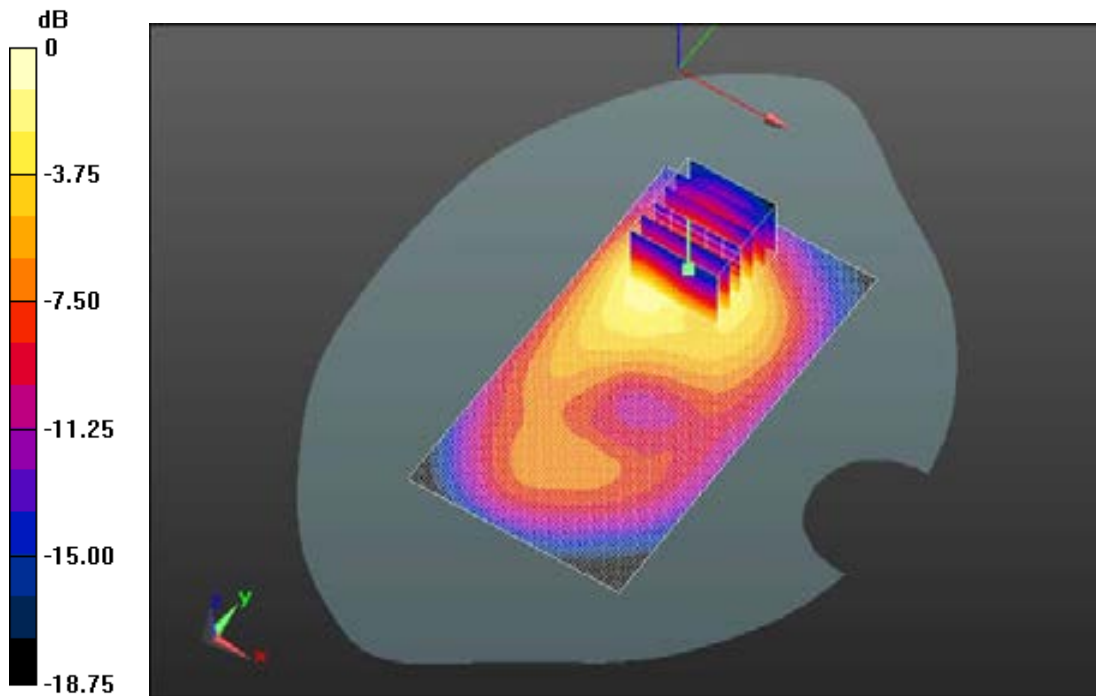
Reference Value = 10.668 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.8430

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.605 mW/g

Maximum value of SAR (measured) = 1.290 mW/g

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$$0 \text{ dB} = 1.290 \text{ mW/g} = 2.21 \text{ dB mW/g}$$

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Date/Time: 12/4/2012 5:21:44 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Back_LTE_2_high_chan_QPSK_RB_1_Offset_99_amb_temp_24.5_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; $\sigma = 1.511$ mho/m; $\epsilon_r = 51.986$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.364 mW/g

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

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

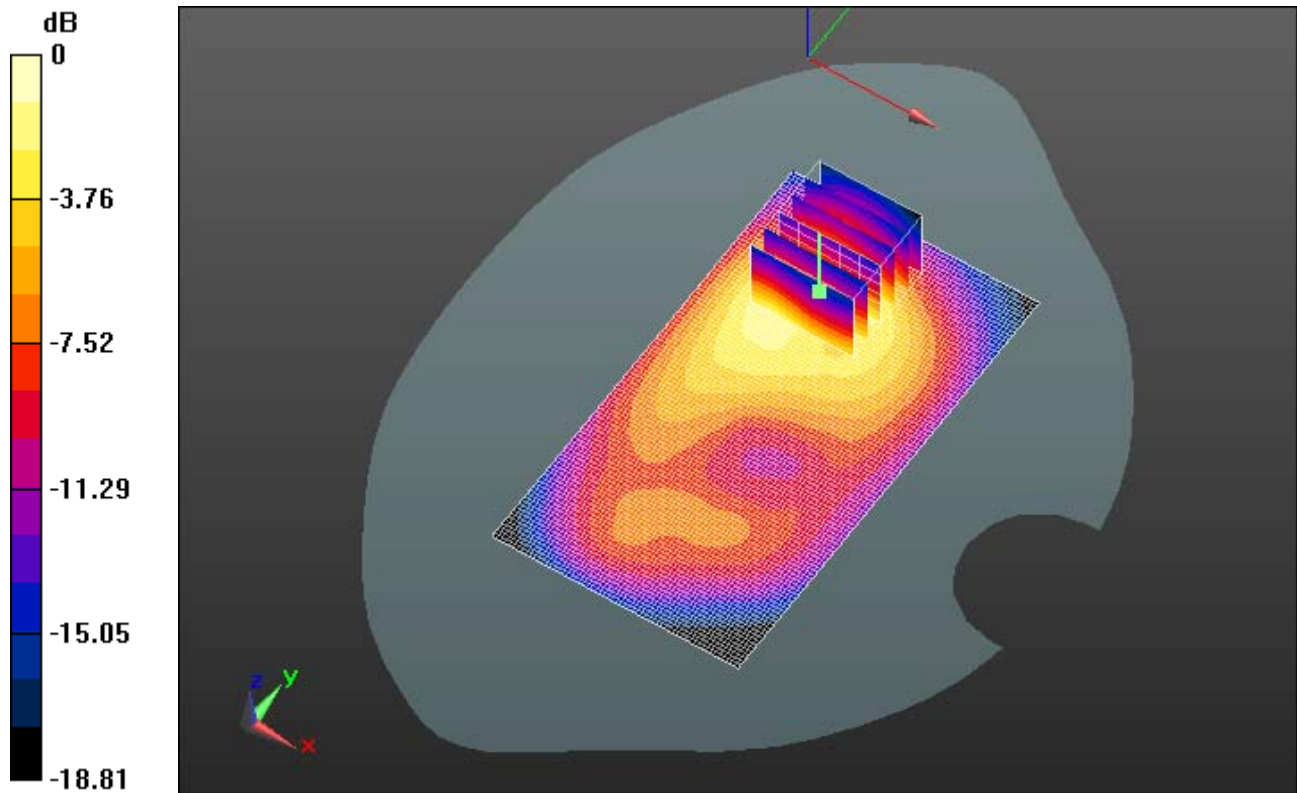
Reference Value = 11.679 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.8280

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.598 mW/g

Maximum value of SAR (measured) = 1.280 mW/g

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0 dB = 1.280mW/g = 2.14 dB mW/g

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EDGE 1900

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Date/Time: 11/29/2012 12:05:39 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_EDGE1900_high_chan_amb_temp_24.0_liq
_temp_22.3C_2nd**

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

Communication System: GPRS 1900; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.579$ mho/m; $\epsilon_r = 50.879$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.302 mW/g

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

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

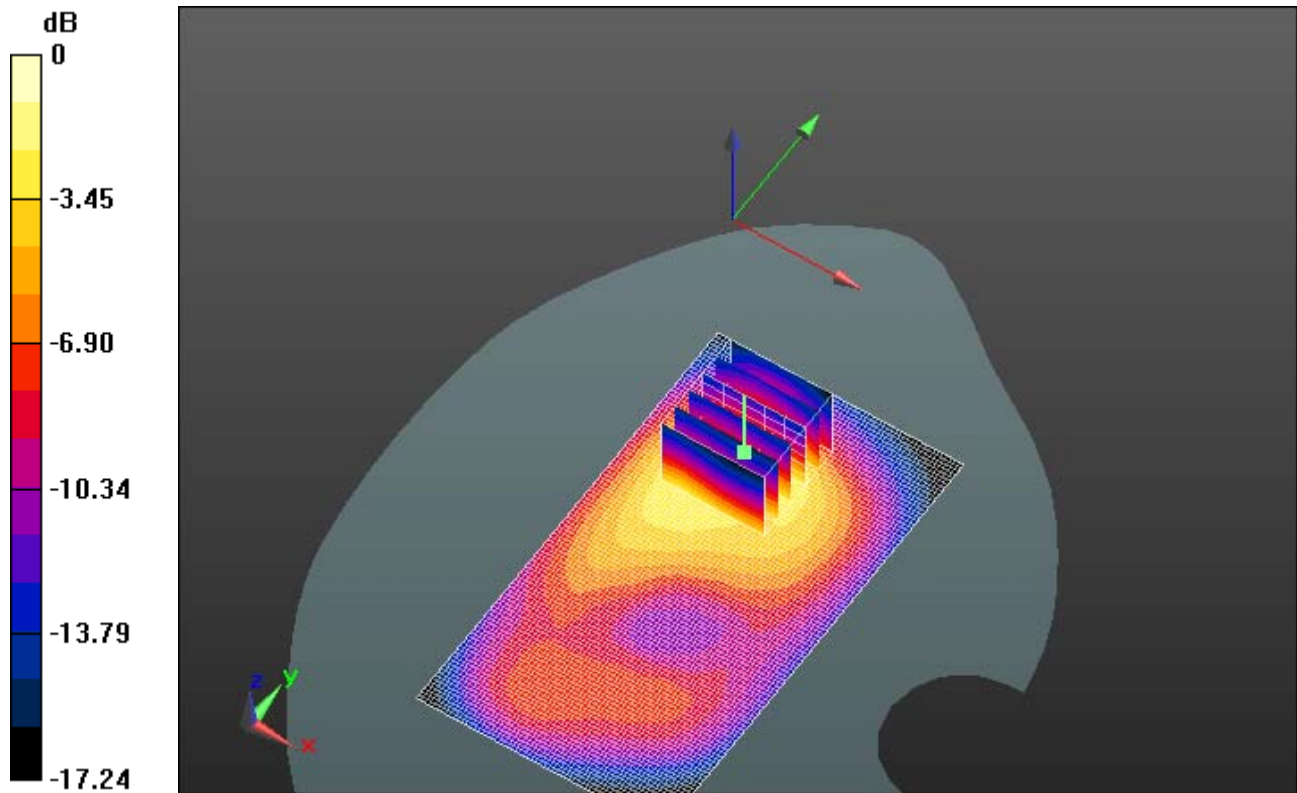
Reference Value = 11.462 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.7220

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.554 mW/g

Maximum value of SAR (measured) = 1.258 mW/g

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

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Date/Time: 11/27/2012 12:41:58 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_EDGE1900_high_chan_amb_temp_23.7_liq
_temp_21.5C**

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

Communication System: EDGE 1900; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.527$ mho/m; $\epsilon_r = 50.643$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.301 mW/g

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

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

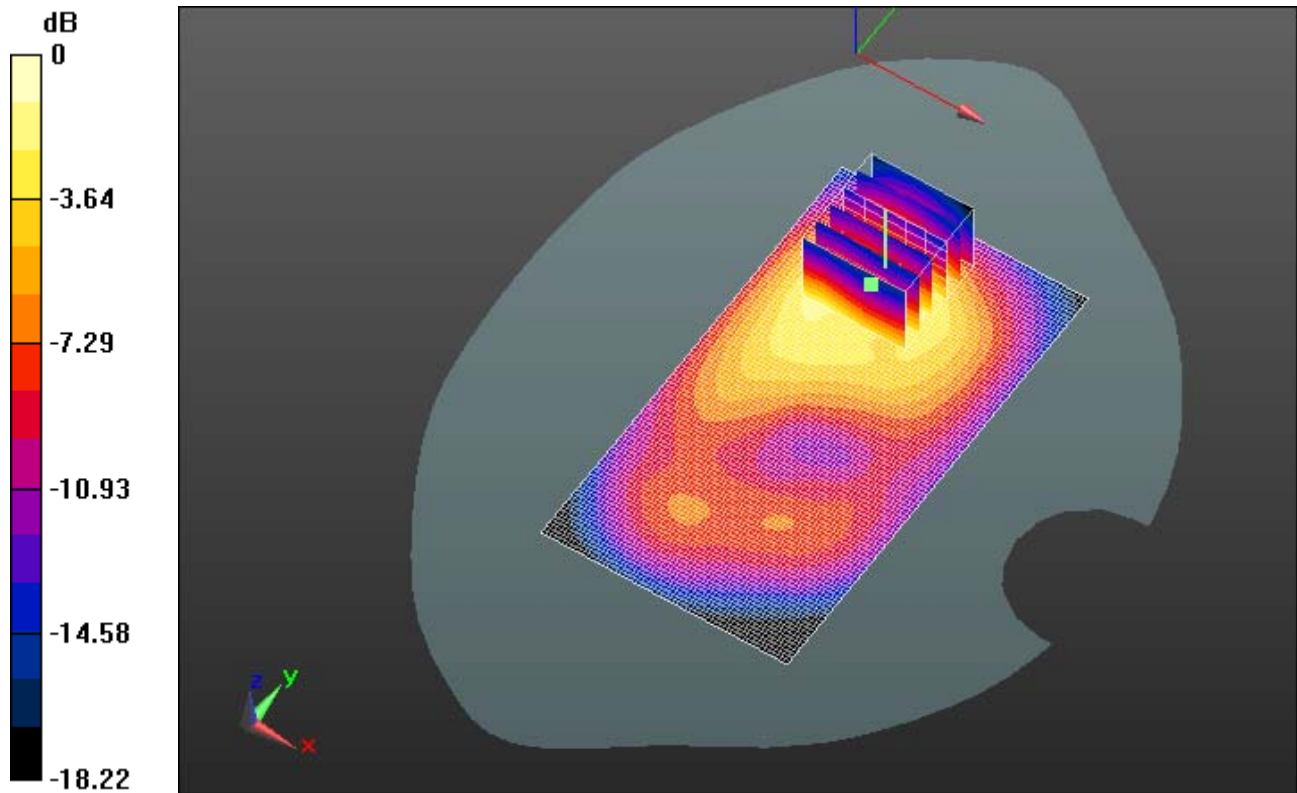
Reference Value = 10.438 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.8230

SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.595 mW/g

Maximum value of SAR (measured) = 1.316 mW/g

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0 dB = 1.320mW/g = 2.41 dB mW/g

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Date/Time: 11/27/2012 12:16:51 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_EDGE1900_low_chan_amb_temp_23.7_liq_
temp_21.5C**

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

Communication System: EDGE 1900; Frequency: 1850.2 MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.475$ mho/m; $\epsilon_r = 50.869$;
 $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.304 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 = 10.180 V/m; Power Drift = -0.06 dB

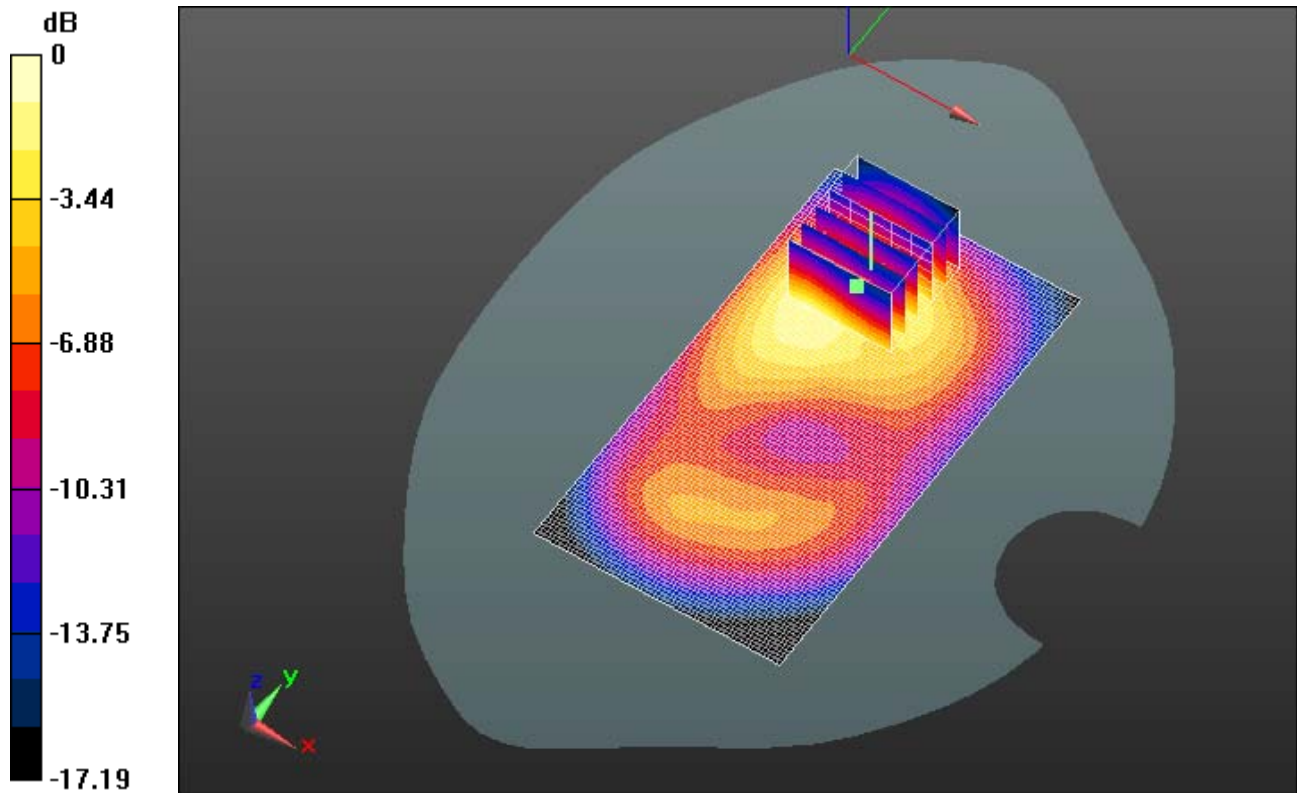
Peak SAR (extrapolated) = 1.7420

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.594 mW/g

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

Maximum value of SAR (measured) = 1.257 mW/g

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

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Date/Time: 11/26/2012 11:51:25 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_EDGE1900_mid_chan_amb_temp_23.7_liq_
temp_21.5C**

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

Communication System: EDGE 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.499 \text{ mho/m}$; $\epsilon_r = 50.828$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.269 mW/g

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

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

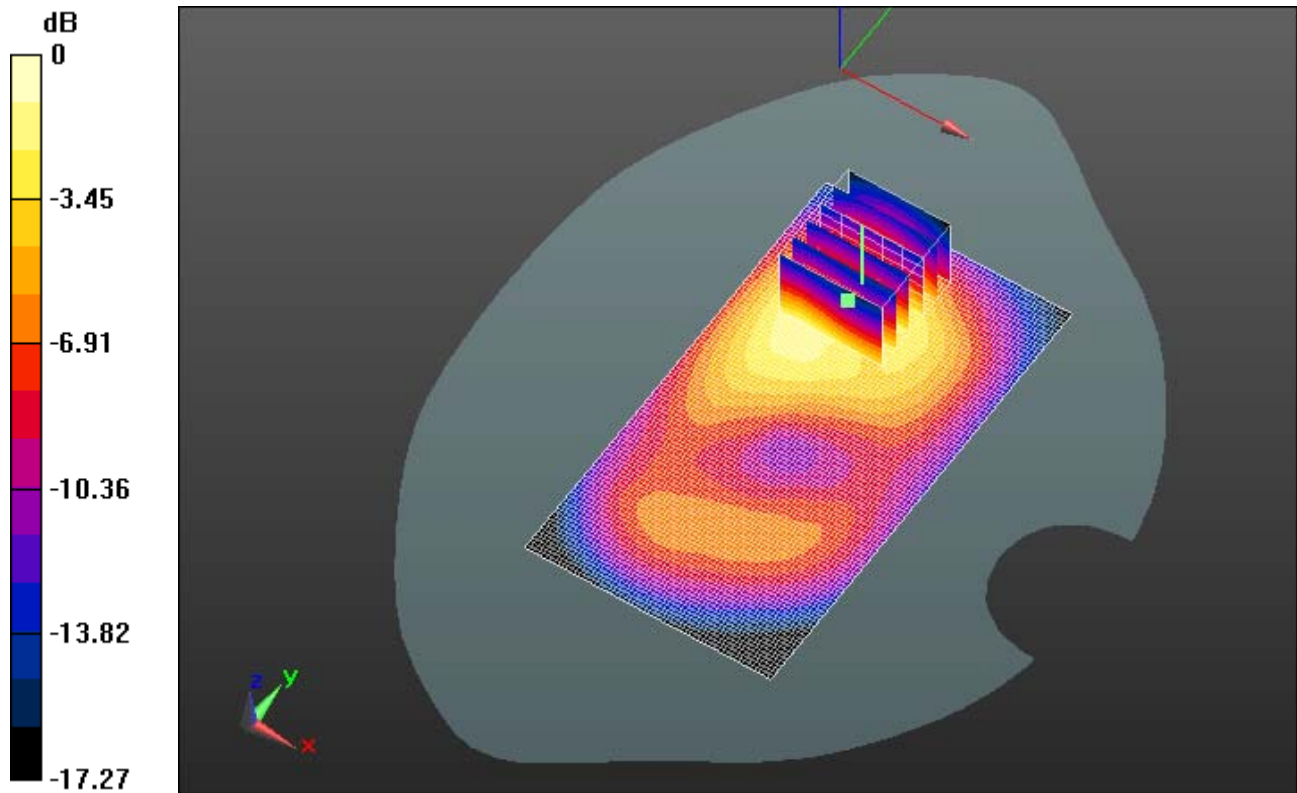
Reference Value = 9.743 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.7410

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.580 mW/g

Maximum value of SAR (measured) = 1.265 mW/g

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0 dB = 1.270mW/g = 2.08 dB mW/g

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Date/Time: 11/29/2012 2:14:32 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_GPRS1900_high_chan_amb_temp_23.9_liq
_temp_22.5C_2100**

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

Communication System: GPRS 1900; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.579$ mho/m; $\epsilon_r = 50.879$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.529 mW/g

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

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

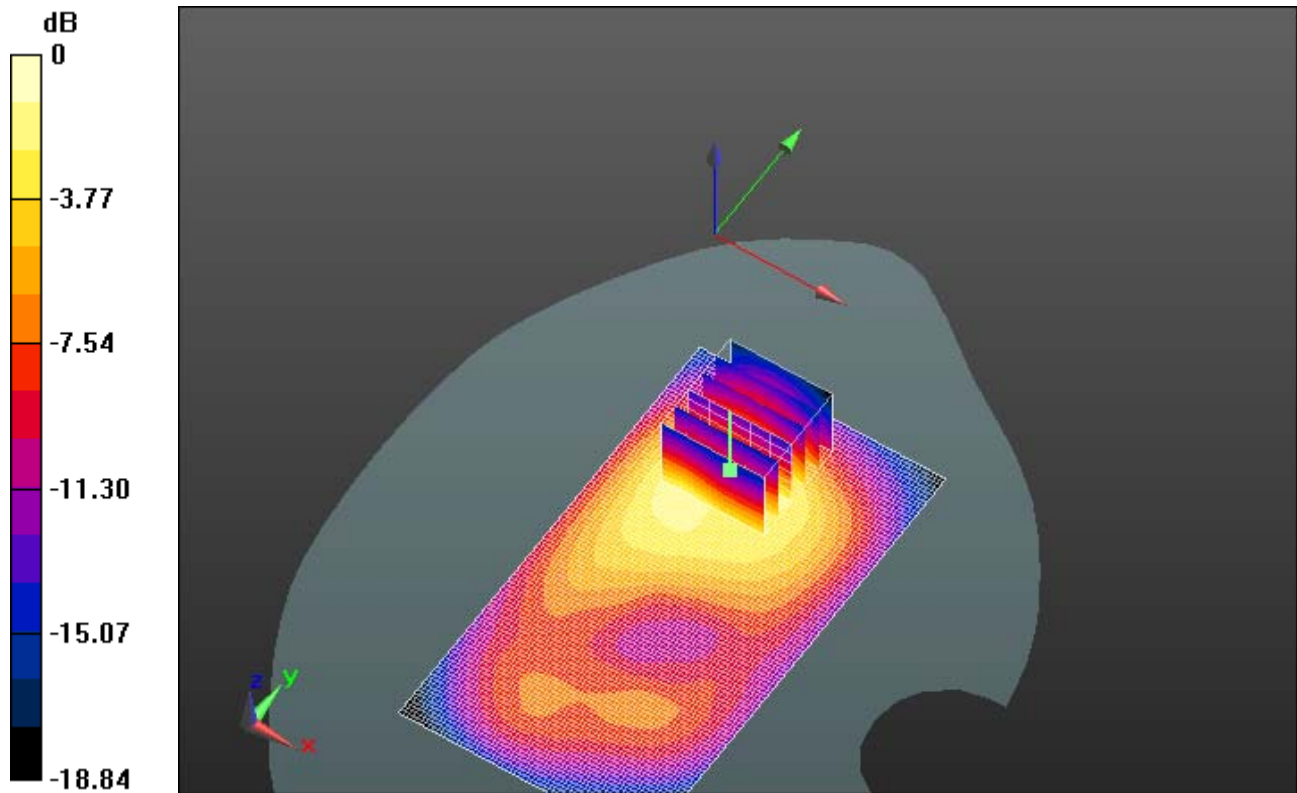
Reference Value = 12.047 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 2.0760

SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.665 mW/g

Maximum value of SAR (measured) = 1.421 mW/g

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

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Date/Time: 11/27/2012 9:00:17 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_Headset_GPRS1900_high_chan_amb_temp
_23.6_liq_temp_22.1C**

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

Communication System: GPRS 1900; Frequency: 1909.8 MHz

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.527$ mho/m; $\epsilon_r = 50.643$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 1.309 mW/g

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

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

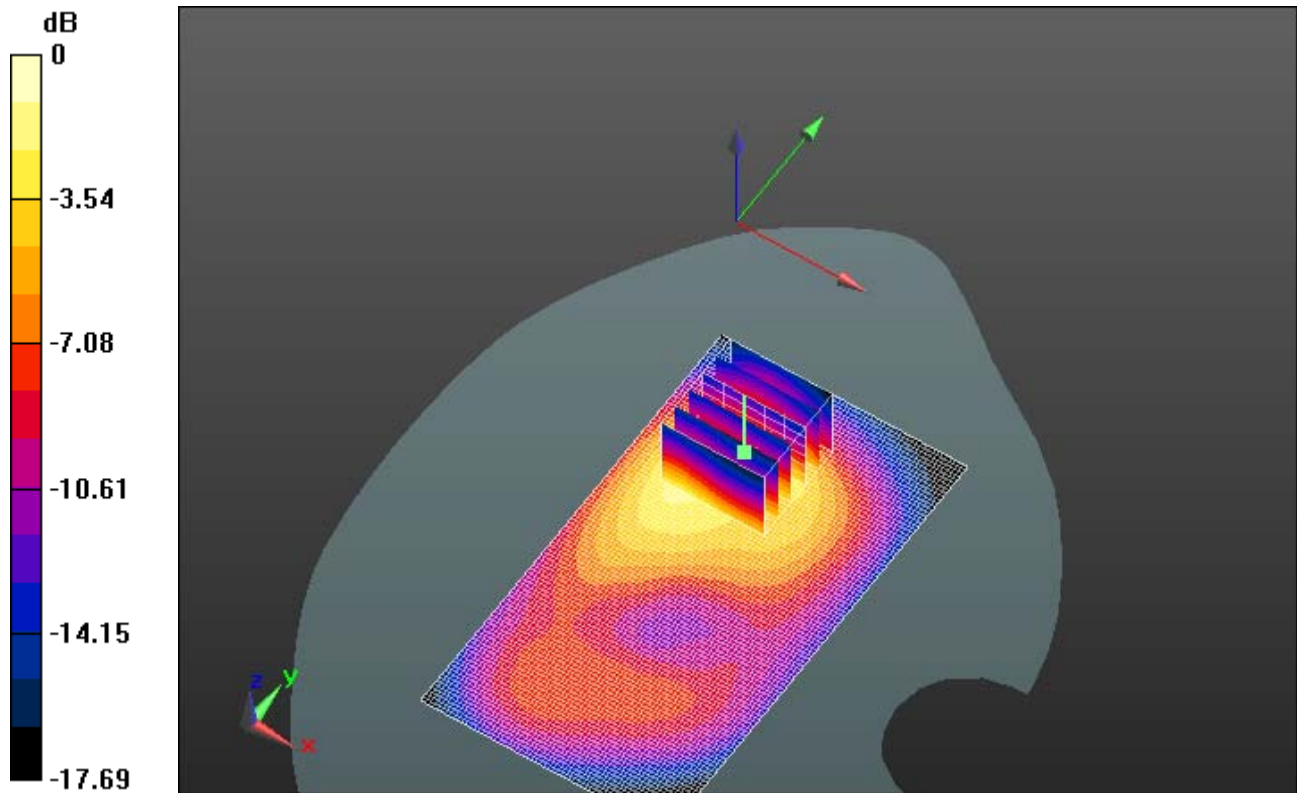
Reference Value = 11.010 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.7090

SAR(1 g) = 1 mW/g; SAR(10 g) = 0.548 mW/g

Maximum value of SAR (measured) = 1.260 mW/g

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

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Date/Time: 11/27/2012 8:28:33 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Bottom_GPRS1900_mid_chan_amb_temp_24.0_li
q_temp_22.7C**

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

Communication System: GPRS 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.499 \text{ mho/m}$; $\epsilon_r = 50.828$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

Configuration/Touch position -/Area Scan (41x61x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.909 mW/g

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

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

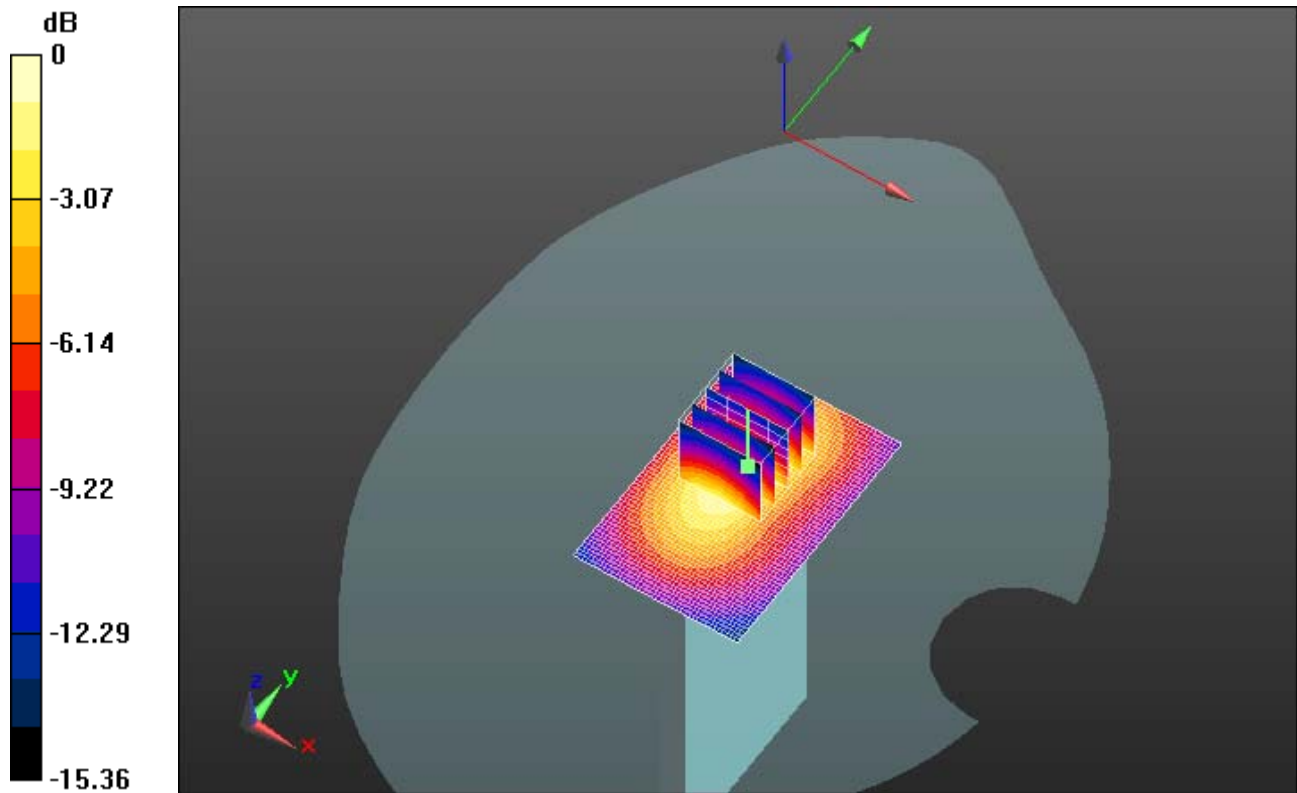
Reference Value = 21.913 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.2290

SAR(1 g) = 0.751 mW/g; SAR(10 g) = 0.428 mW/g

Maximum value of SAR (measured) = 0.921 mW/g

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0 dB = 0.920mW/g = -0.72 dB mW/g

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Date/Time: 11/27/2012 1:07:57 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Front_EDGE1900_mid_chan_amb_temp_23.7_liq_
temp_21.5C**

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

Communication System: EDGE 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.499 \text{ mho/m}$; $\epsilon_r = 50.828$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

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

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

Maximum value of SAR (interpolated) = 0.769 mW/g

Configuration/Touch position -/Zoom Scan (5x5x7) (7x7x7)/Cube 0:

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

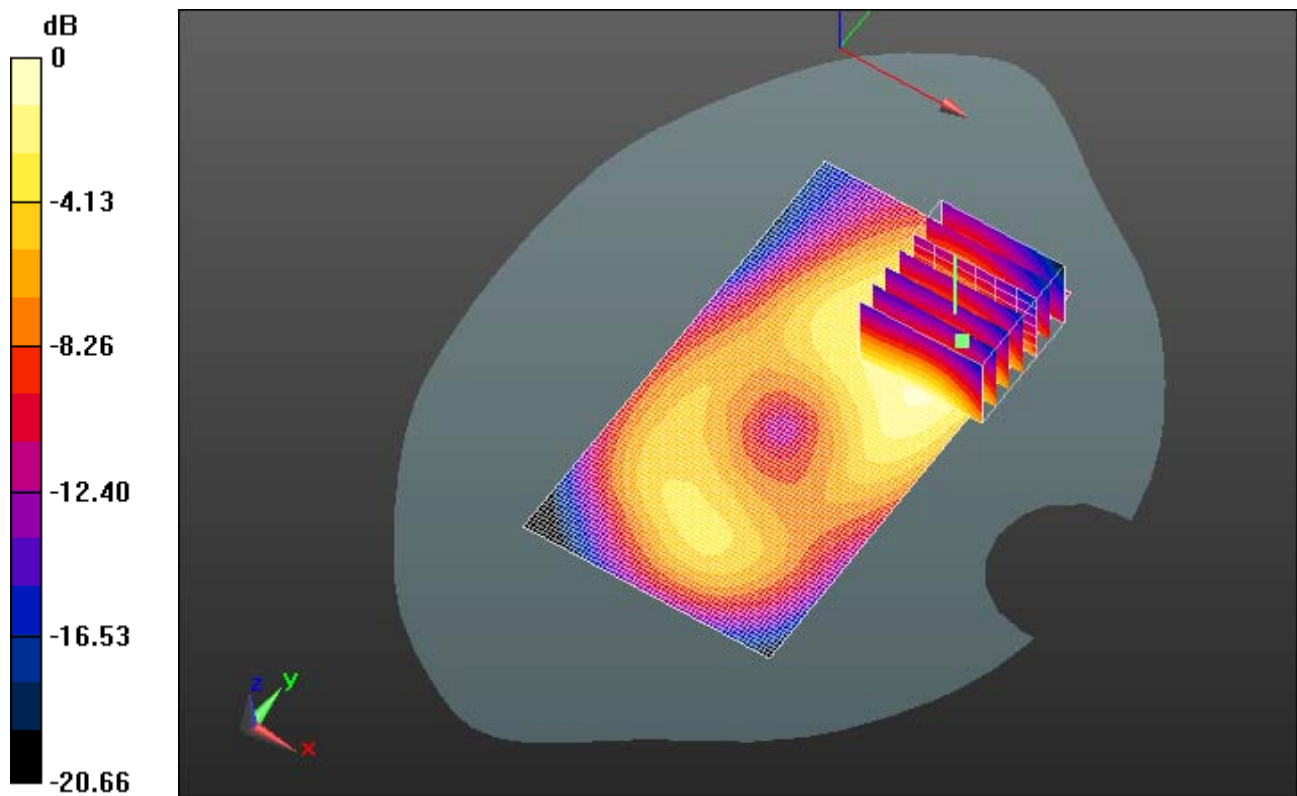
Reference Value = 6.958 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.0650

SAR(1 g) = 0.644 mW/g; SAR(10 g) = 0.369 mW/g

Maximum value of SAR (measured) = 0.794 mW/g

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

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Date/Time: 11/27/2012 2:45:05 AM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Left_EDGE1900_mid_chan_amb_temp_23.7_liq_t
emp_21.5C**

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

Communication System: EDGE 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.499 \text{ mho/m}$; $\epsilon_r = 50.828$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

Configuration/Touch position -/Area Scan (41x111x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.394 mW/g

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

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

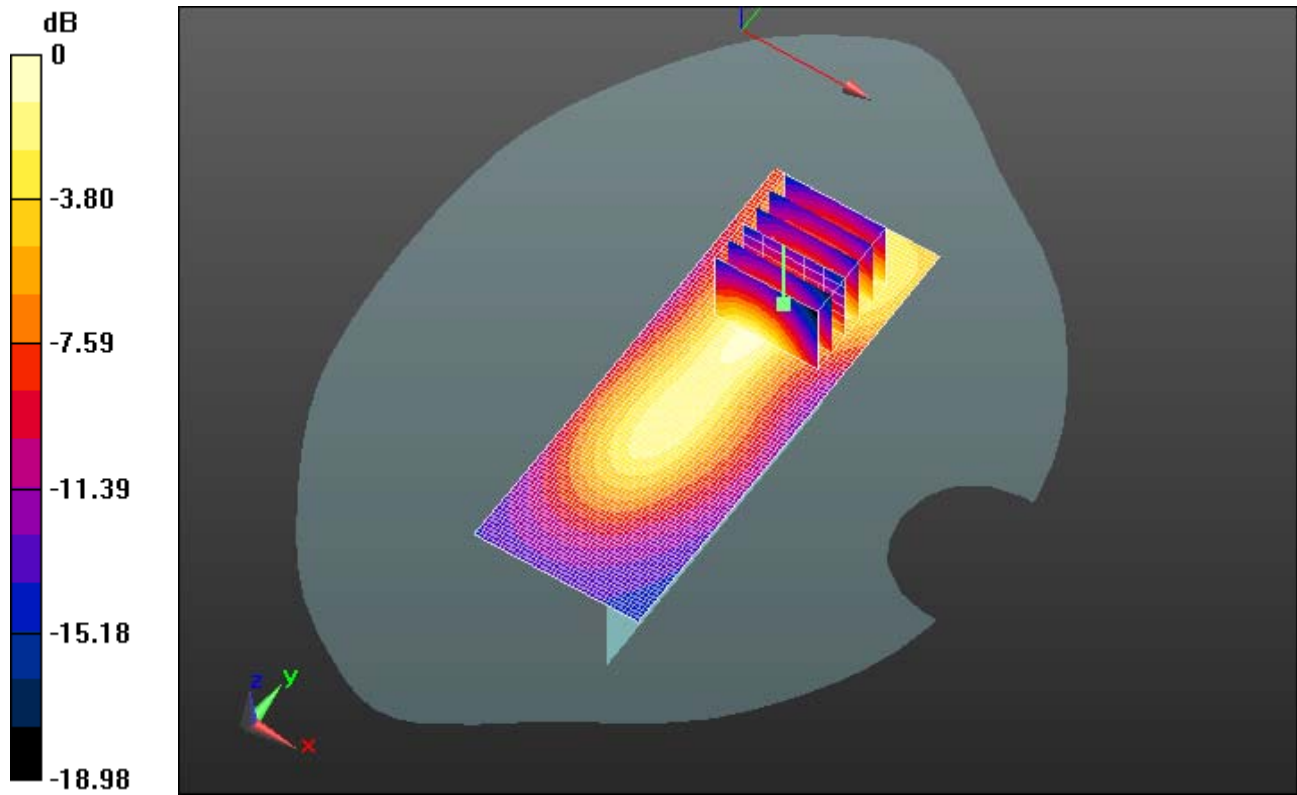
Reference Value = 14.261 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.5580

SAR(1 g) = 0.324 mW/g; SAR(10 g) = 0.184 mW/g

Maximum value of SAR (measured) = 0.397 mW/g

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

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Date/Time: 11/27/2012 1:47:12 AM

Test Laboratory: RIM Testing Services

MHS_10mm_Spacer_Right_EDGE1900_mid_chan_amb_temp_23.7_liq_
temp_21.5C

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

Communication System: EDGE 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.499 \text{ mho/m}$; $\epsilon_r = 50.828$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

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

Configuration/Touch position -/Area Scan (31x111x1): Measurement grid:

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

Maximum value of SAR (interpolated) = 0.151 mW/g

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

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

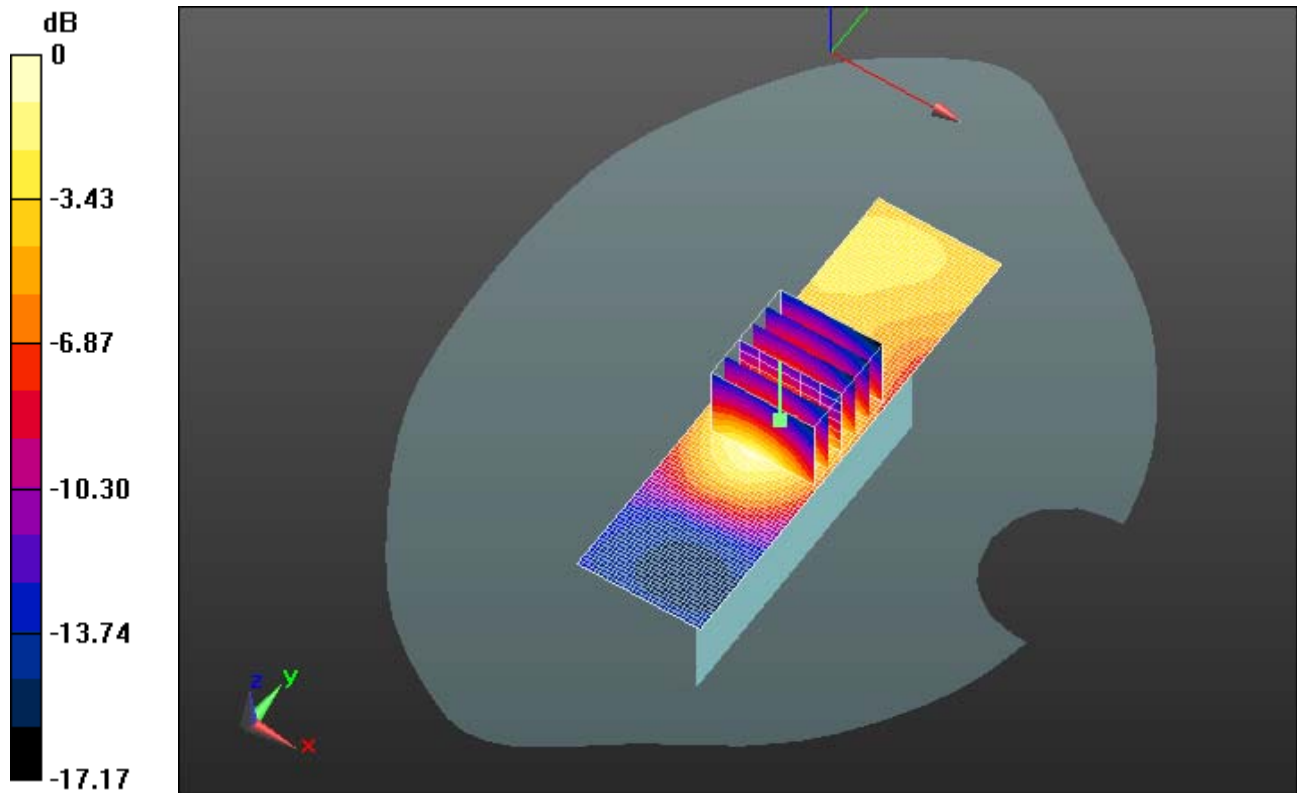
Reference Value = 10.558 V/m; Power Drift = 0.0033 dB

Peak SAR (extrapolated) = 0.2020

SAR(1 g) = 0.127 mW/g; SAR(10 g) = 0.076 mW/g

Maximum value of SAR (measured) = 0.152 mW/g

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

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Date/Time: 1/29/2013 3:54:41 PM

Test Laboratory: RIM Testing Services

**MHS_10mm_Spacer_Back_GPRS1900_high_chan_amb_temp_23.9_liq
_temp_22.5C_2100_2nd_scan**

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

Communication System: GPRS 1900; Communication System Band: GPRS 1900;
Frequency: 1909.8 MHz; Communication System PAR: 6.232 dB; PMF: 2.04927
Medium parameters used: $f = 1910 \text{ MHz}$; $\sigma = 1.574 \text{ S/m}$; $\epsilon_r = 50.849$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

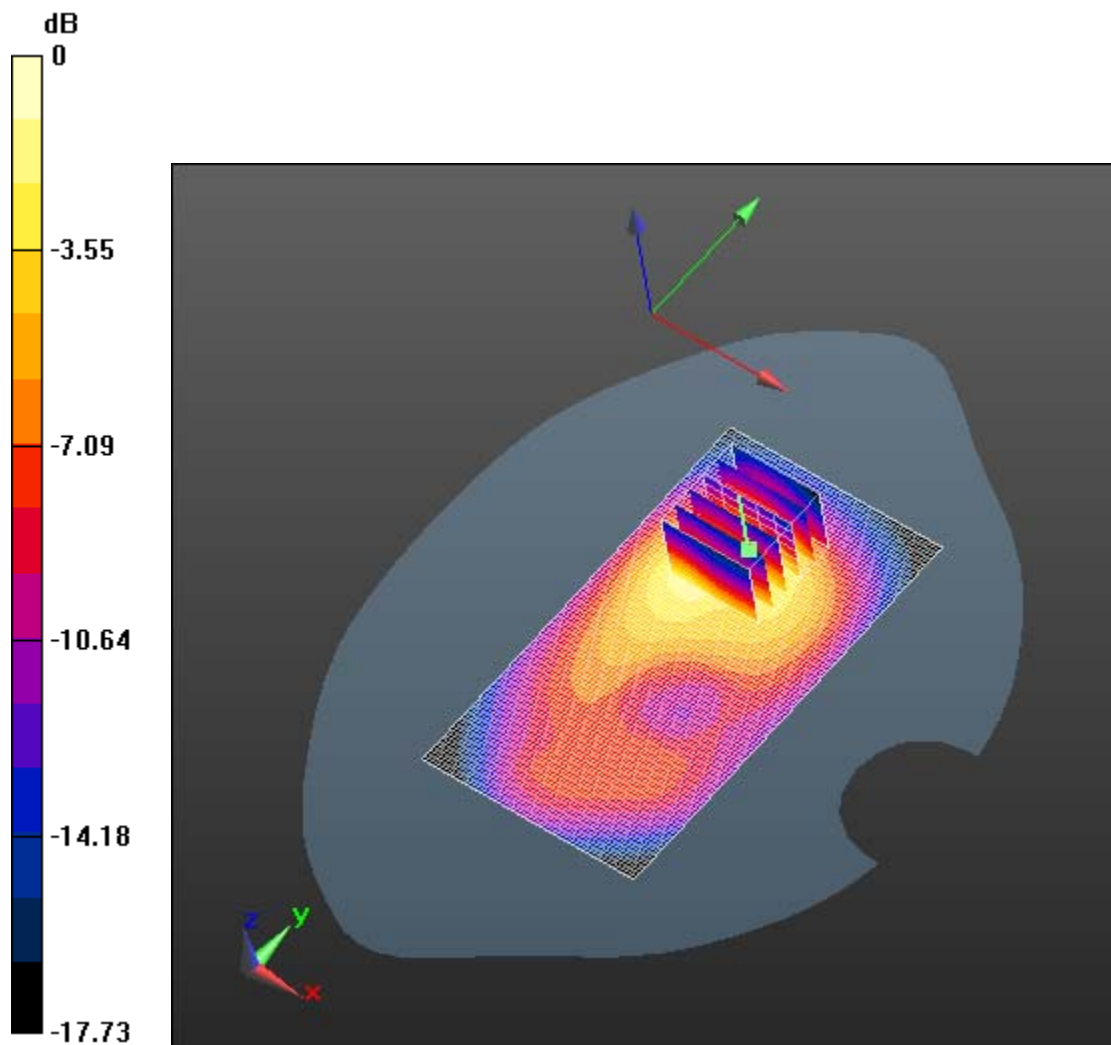
DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.75, 4.75, 4.75); Calibrated: 11/13/2012;
 - Modulation Compensation: **Not calibrated**
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7, 32.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Configuration/Touch position -/Area Scan (61x111x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.26 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 = 14.131 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.76 W/kg
SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.632 W/kg
Maximum value of SAR (measured) = 1.26 W/kg

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$$0 \text{ dB} = 1.26 \text{ W/kg} = 1.00 \text{ dBW/kg}$$

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UMTS Band II

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Date: 1/29/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 25CF0AD9

Configuration: MHS_10mm_Body_SAR_Configuration

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD

II; Frequency: 1907.6 MHz

Medium Parameters used: $f=1907.6$ MHz; $\sigma = 1.571$ S/m; $\epsilon_r = 50.831$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF: (4.75,4.75,4.75); Calibrated: 11/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_UMTS_II_High_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Area Scan (61x101x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.39 W/kg

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_UMTS_II_High_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Zoom Scan (5x5x7) (26x26x36)/Cube 0:

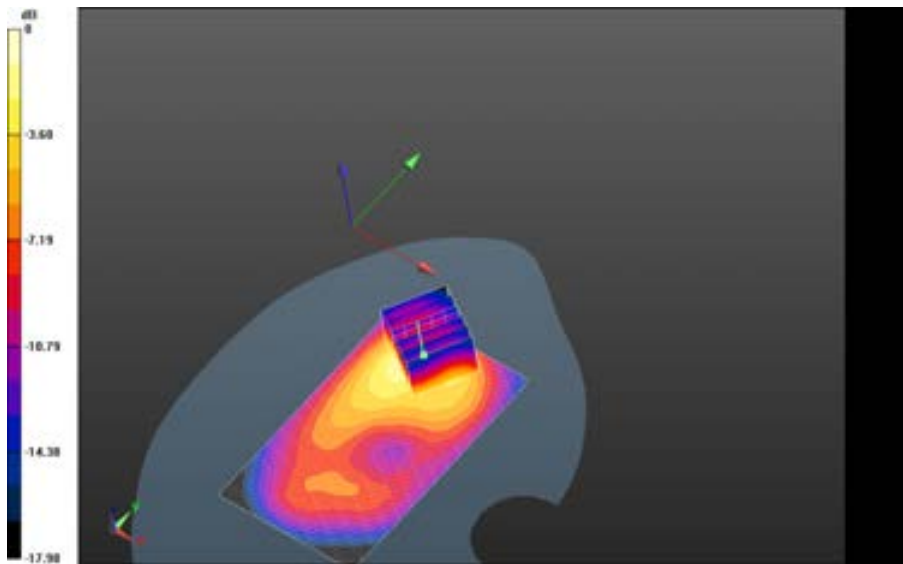
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.304 V/m; **Power Drift = 0.023 dB**

Averaged SAR: SAR(1g) = 1.28 W/kg; SAR(10g) = 0.727 W/kg

Maximum value of SAR (interpolated) = 2.01 W/kg

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0 dB = 1.43 W/kg = 1.55 dBW/kg

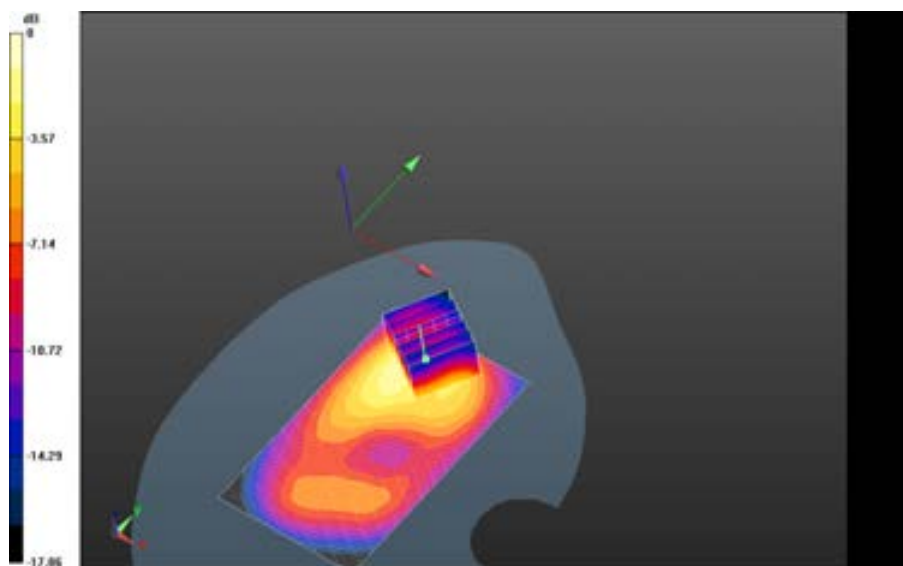
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MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_UMTS_II_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.29 W/kg

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_UMTS_II_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Zoom Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.784 V/m; **Power Drift = -0.071 dB**

Averaged SAR: SAR(1g) = 1.17 W/kg; SAR(10g) = 0.666 W/kg
Maximum value of SAR (interpolated) = 1.83 W/kg



0 dB = 1.43 W/kg = 1.55 dBW/kg

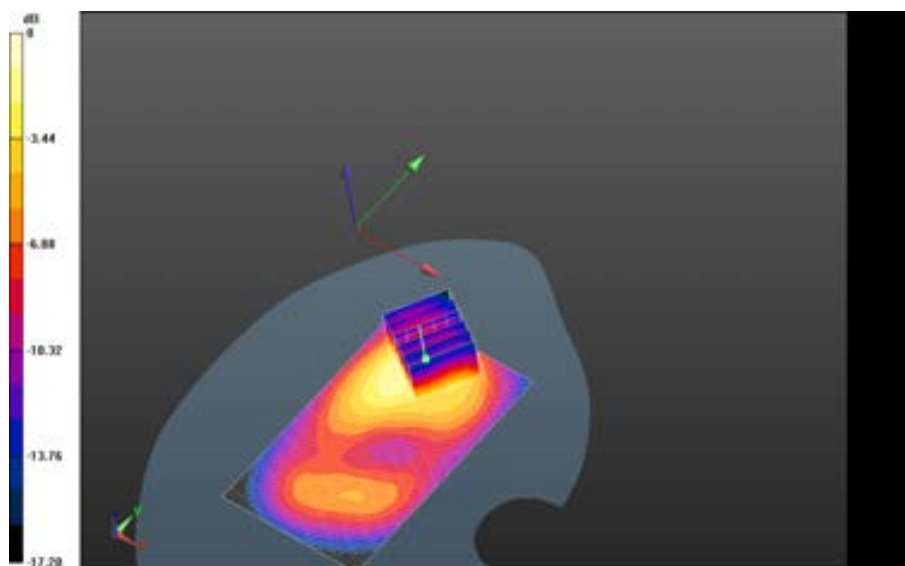
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MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_UMTS_II_Low_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.23 W/kg

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_UMTS_II_Low_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Zoom Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.584 V/m; **Power Drift = 0.133 dB**

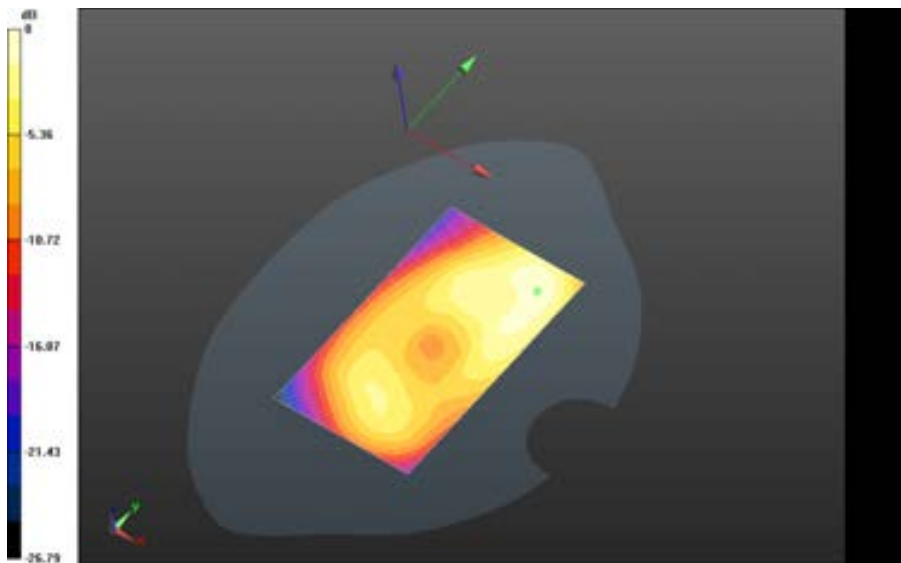
Averaged SAR: SAR(1g) = 1.12 W/kg; SAR(10g) = 0.643 W/kg
Maximum value of SAR (interpolated) = 1.74 W/kg



0 dB = 1.29 W/kg = 1.11 dBW/kg

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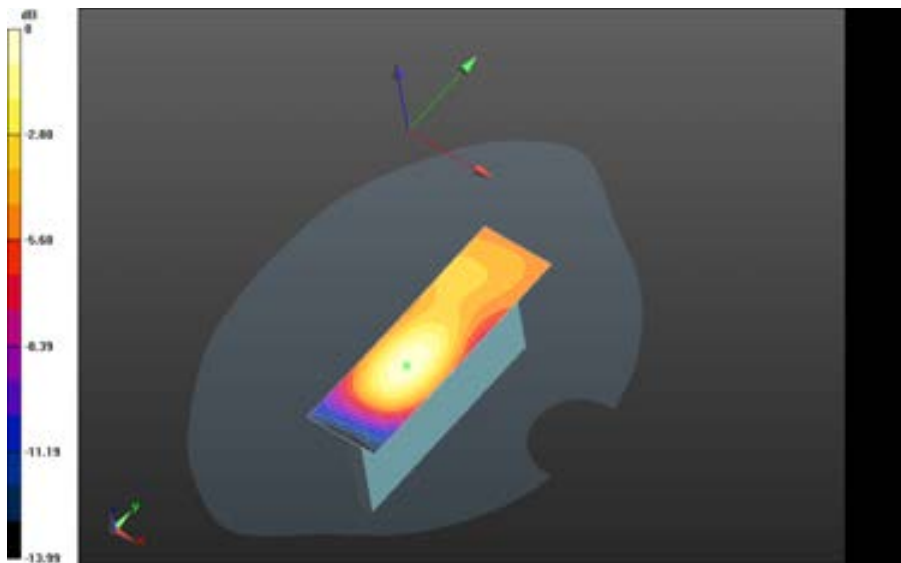
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Front_UMT
S_II_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.5C 2/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.793 W/kg



0 dB = 1.24 W/kg = 0.93 dBW/kg

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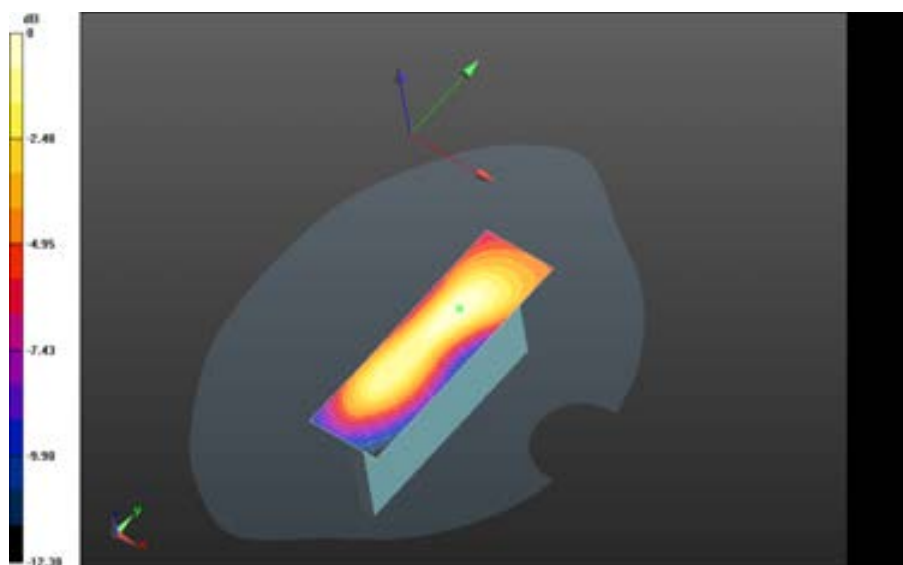
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Right_UMTS
_II_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (31x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.165 W/kg



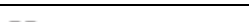
0 dB = 0.793 W/kg = -1.01 dBW/kg

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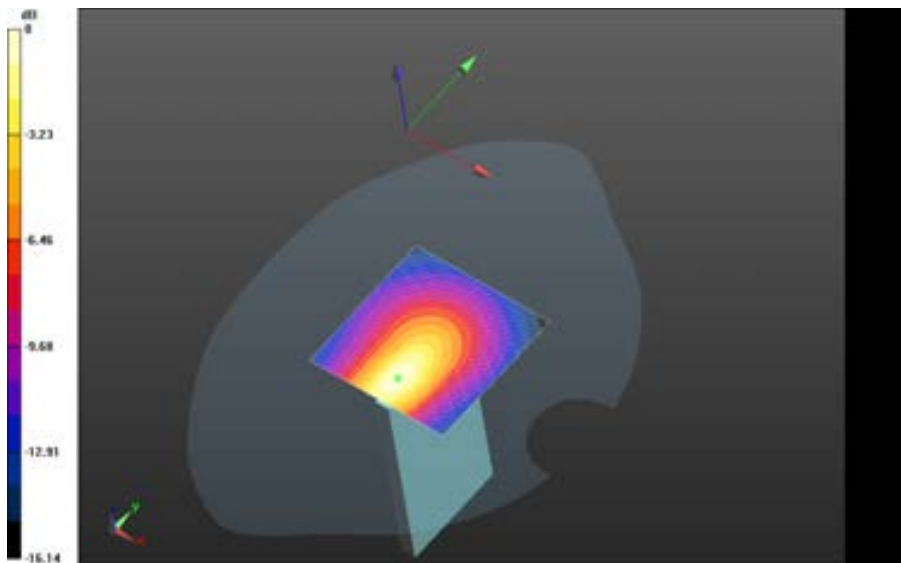
MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Left_UMTS_II_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (31x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.390 W/kg



0 dB = 0.165 W/kg = -7.83 dBW/kg

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MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Bottom_UM
TS_II_Mid_chan_Amb_Temp_23.4C_Liq_Temp_22.3C/Area Scan (61x61x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.865 W/kg



0 dB = 0.390 W/kg = -4.09 dBW/kg

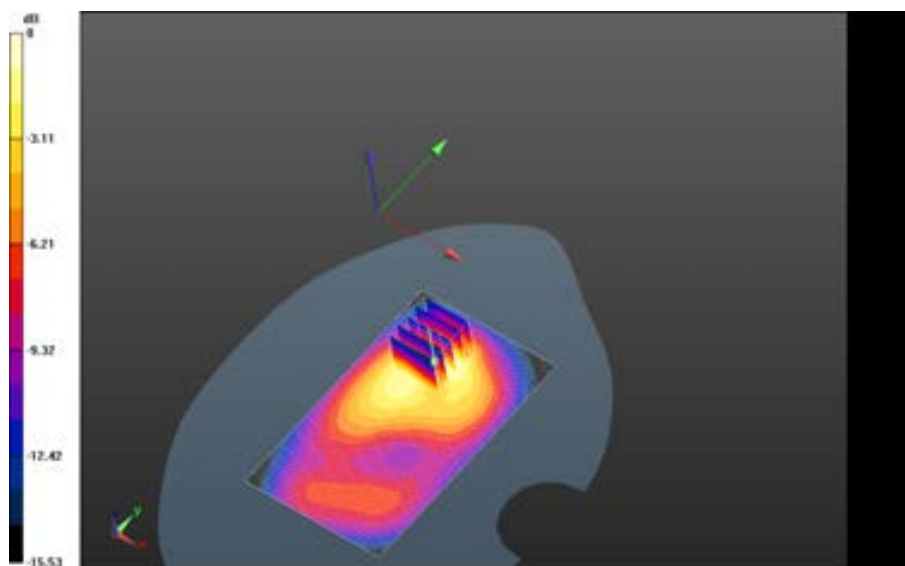
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MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+HS_U
MTS_II_High_chan_Amb_Temp_23.4C_Liq_Temp_22.5C 2/Area Scan (61x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.39 W/kg

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back+H
S_UMTS_II_High_chan_Amb_Temp_23.4C_Liq_Temp_22.5C 2/Zoom Scan
(5x5x7) (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm,
dz=1.000 mm

Reference Value = 14.758 V/m; **Power Drift = 0.135 dB**

Averaged SAR: SAR(1g) = 1.19 W/kg; SAR(10g) = 0.675 W/kg
Maximum value of SAR (interpolated) = 1.84 W/kg



0 dB = 0.865 W/kg = -0.63 dBW/kg

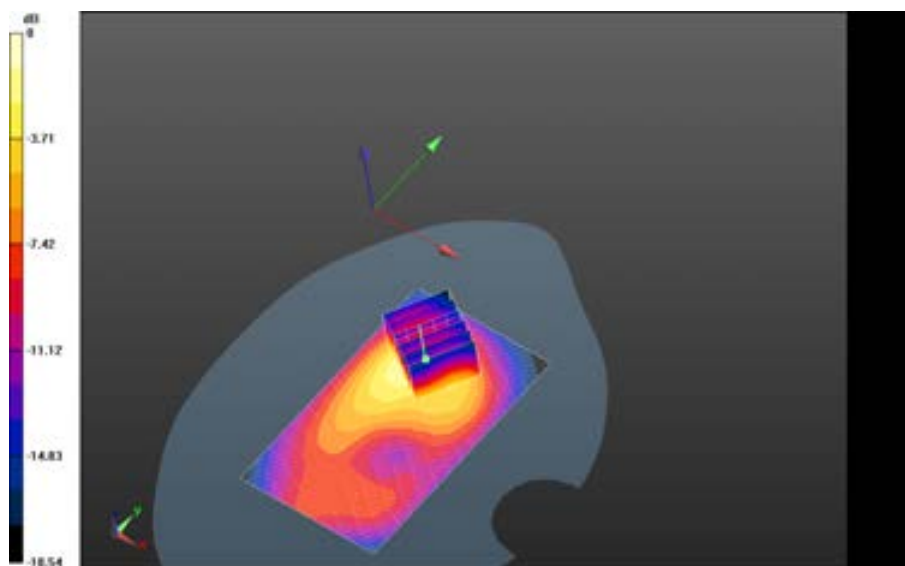
	Document Appendix C2 for the BlackBerry® Smartphone Model RFL111LW SAR Report Rev 2			Page 142(166)
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MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_2100m A_UMTS_II_High_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.50 W/kg

MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_2100mA_UMTS_II_High_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Zoom Scan (5x5x7) (26x26x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 14.766 V/m; **Power Drift = -0.118 dB**

Averaged SAR: SAR(1g) = 1.35 W/kg; SAR(10g) = 0.749 W/kg
Maximum value of SAR (interpolated) = 2.16 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

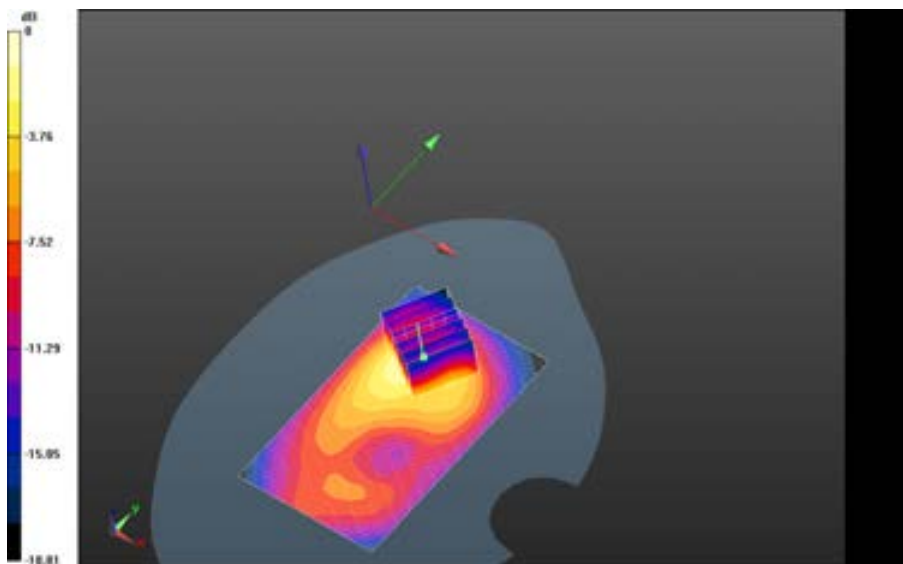
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**MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_2100m
A_2nd_scan_UMTS_II_High_chan_Amb_Temp_23.4C_Liq_Temp_22.5C/Area
Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.51 W/kg

**MHS_10mm_Body_SAR_Configuration/MHS_10mm_Spacer_Device_Back_2
100mA_2nd_scan_UMTS_II_High_chan_Amb_Temp_23.4C_Liq_Temp_22.5C
/Zoom Scan (5x5x7) (26x26x36)/Cube 0:** Interpolated grid: dx=1.500 mm,
dy=1.500 mm, dz=1.000 mm

Reference Value = 14.567 V/m; **Power Drift = 0.074 dB**

Averaged SAR: SAR(1g) = 1.36 W/kg; SAR(10g) = 0.755 W/kg
Maximum value of SAR (interpolated) = 2.18 W/kg



0 dB = 1.51 W/kg = 1.79 dBW/kg

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802.11b

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Date/Time: 1/7/2013 12:59:43 PM

Test Laboratory: RIM Testing Services

MHS_SAR_802.11b_Device_Front_10mm

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

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

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.888$ S/m; $\epsilon_r = 51.662$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS2 52.8.4(1052); SEMCAD X 14.6.8(7028)

Flat-Section MSL_MHS_Body_SAR/Device

Front_10mm_Amb_Temp_23.7C_Liquid_Temp_22.1C/Area Scan

(71x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

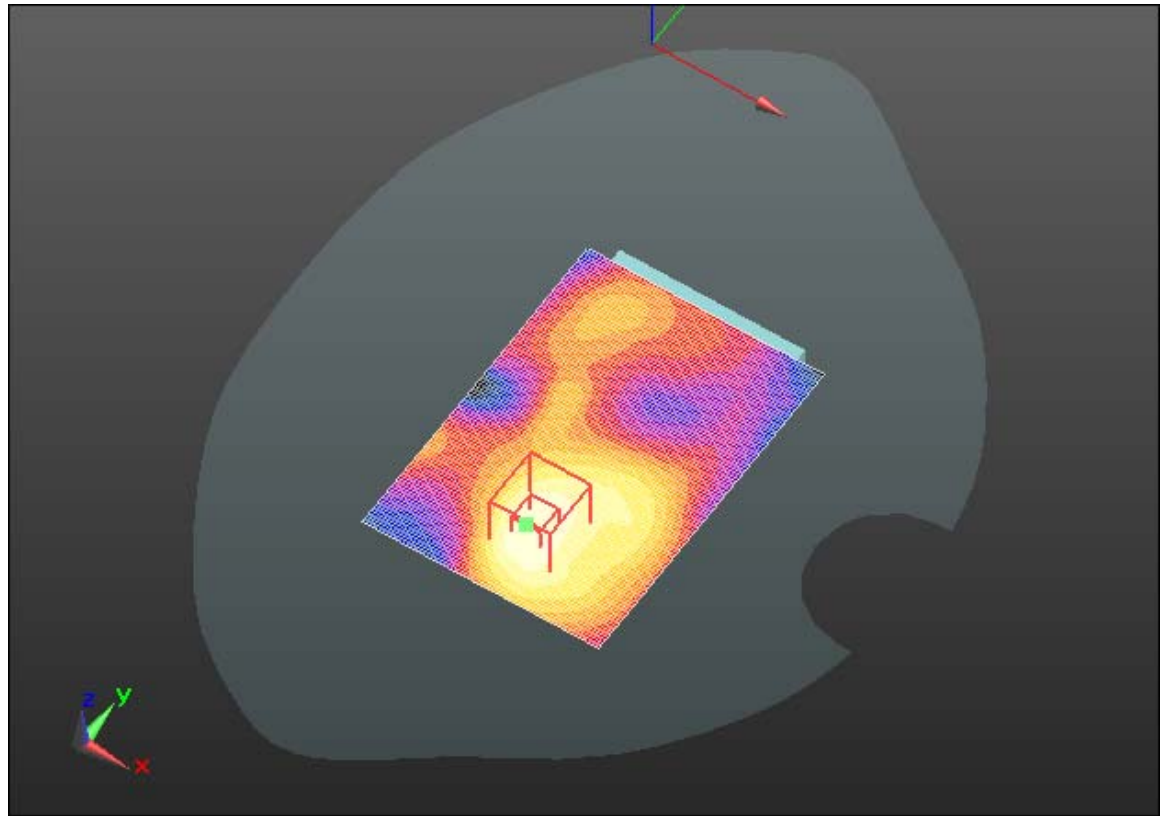
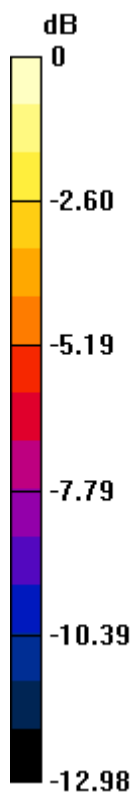
Reference Value = 4.038 V/m; Power Drift = 0.11 dB

Fast SAR: SAR(1 g) = 0.109 W/kg; SAR(10 g) = 0.061 W/kg

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

Maximum value of SAR (interpolated) = 0.120 W/kg

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0 dB = 0.120 W/kg = -9.20 dBW/kg

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Date/Time: 1/7/2013 1:59:29 PM

Test Laboratory: RIM Testing Services

MHS_SAR_802.11b_Device_Left_10mm

DUT: BlackBerry Smartphone_Left_Right Side; Type: Sample ; Serial: 25CF0AD9

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

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.888$ S/m; $\epsilon_r = 51.662$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Flat-Section MSL_MHS_Body_SAR/Device

Left_10mm_Amb_Temp_23.4C_Liquid_Temp_22.0C/Area Scan

(41x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

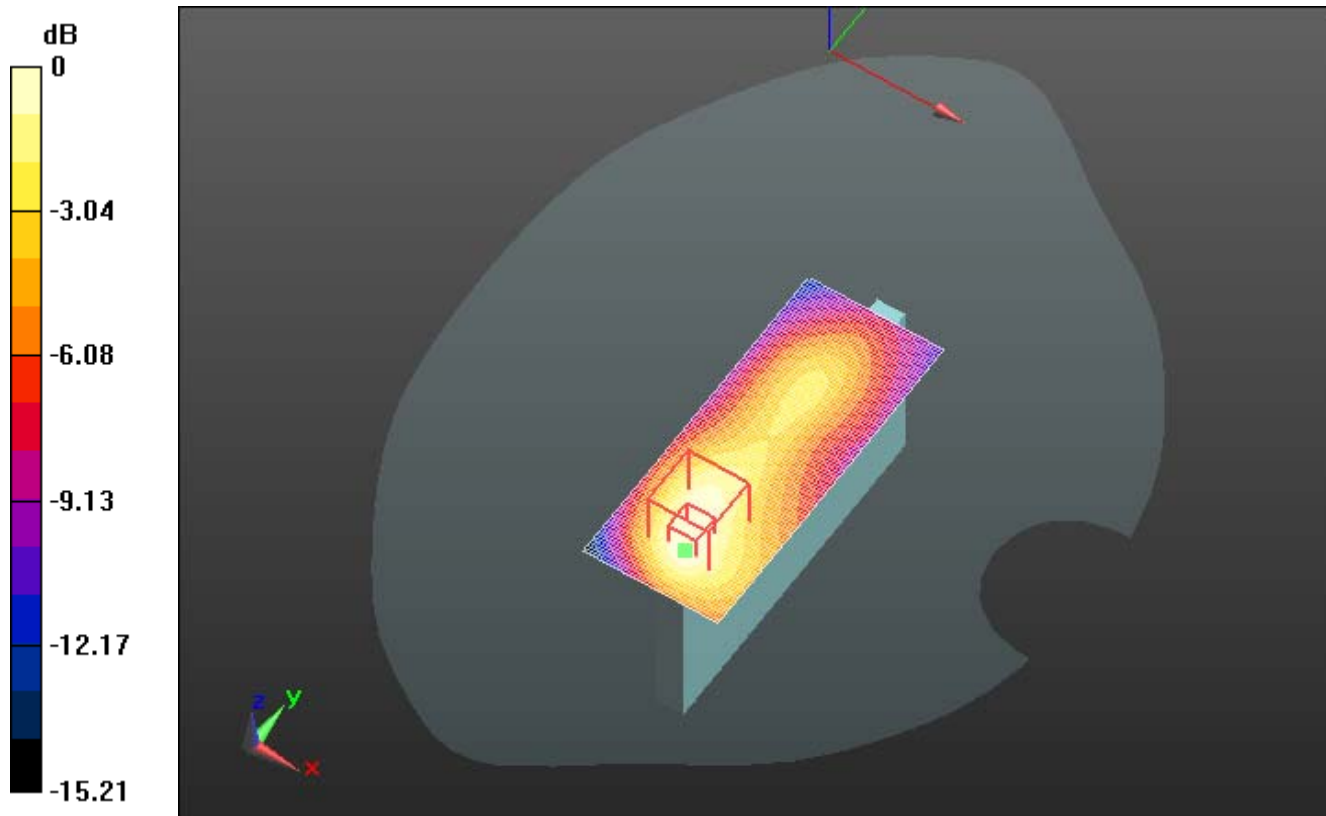
Reference Value = 8.092 V/m; Power Drift = 0.05 dB

Fast SAR: SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.107 W/kg

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

Maximum value of SAR (interpolated) = 0.228 W/kg

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0 dB = 0.228 W/kg = -6.42 dBW/kg

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Date/Time: 1/7/2013 2:09:19 PM

Test Laboratory: RIM Testing Services

MHS_SAR_802.11b_Device_Right_10mm

DUT: BlackBerry Smartphone_Left_Right Side; Type: Sample ; Serial: 25CF0AD9

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

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.888$ S/m; $\epsilon_r = 51.662$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X 14.6.8(7028)

Flat-Section MSL_MHS_Body_SAR/Device

Right_10mm_Amb_Temp_23.3C_Liquid_Temp_21.4C/Area Scan

(41x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

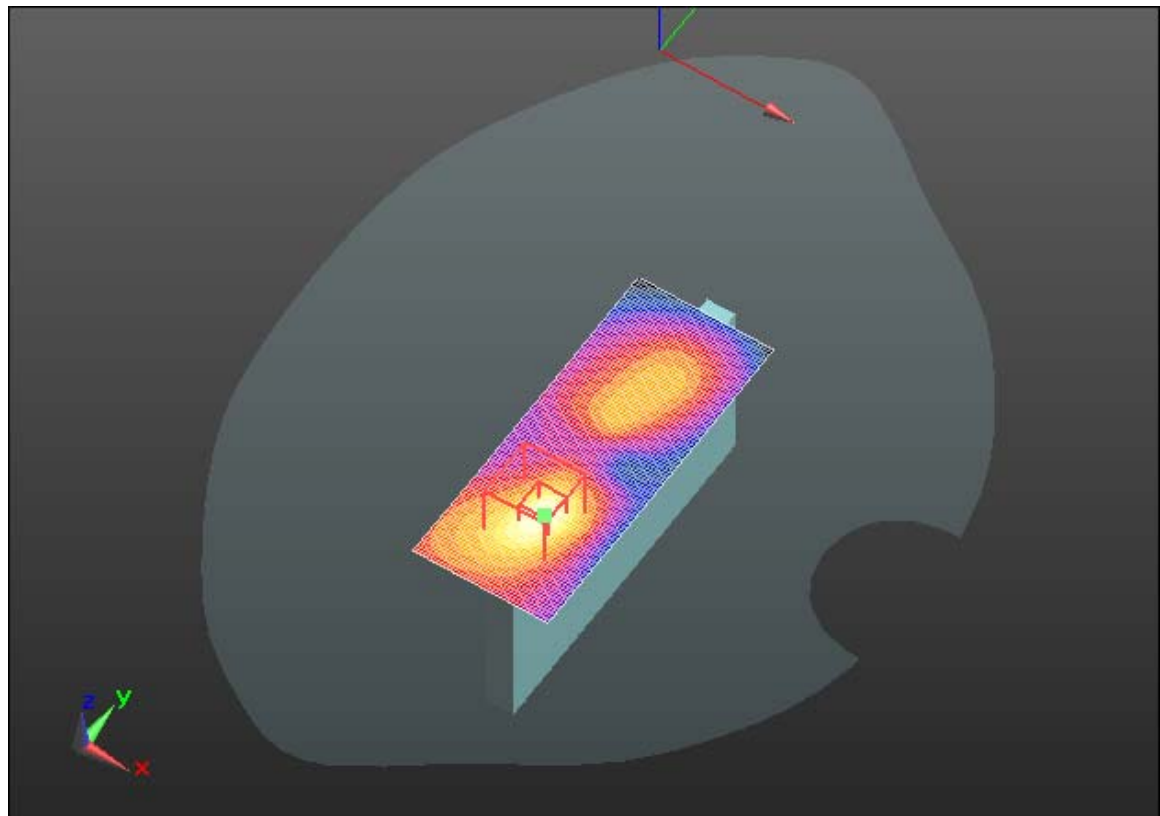
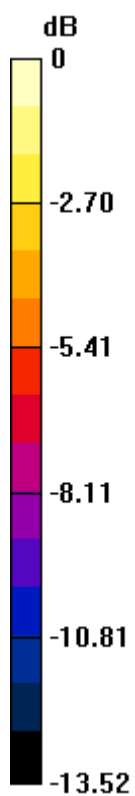
Reference Value = 4.520 V/m; Power Drift = 0.30 dB

Fast SAR: SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.038 W/kg

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

Maximum value of SAR (interpolated) = 0.104 W/kg

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0 dB = 0.104 W/kg = -9.82 dBW/kg

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Date/Time: 1/7/2013 2:22:34 PM

Test Laboratory: RIM Testing Services

MHS_SAR_802.11b_Device_Top_10mm

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

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

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.888$ S/m; $\epsilon_r = 51.662$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = 2.7$
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASYS 52.8.4(1052); SEMCAD X 14.6.8(7028)

Flat-Section MSL_MHS_Body_SAR/Device

Top_10mm_Amb_Temp_23.4C_Liquid_Temp_21.4C/Area Scan

(41x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

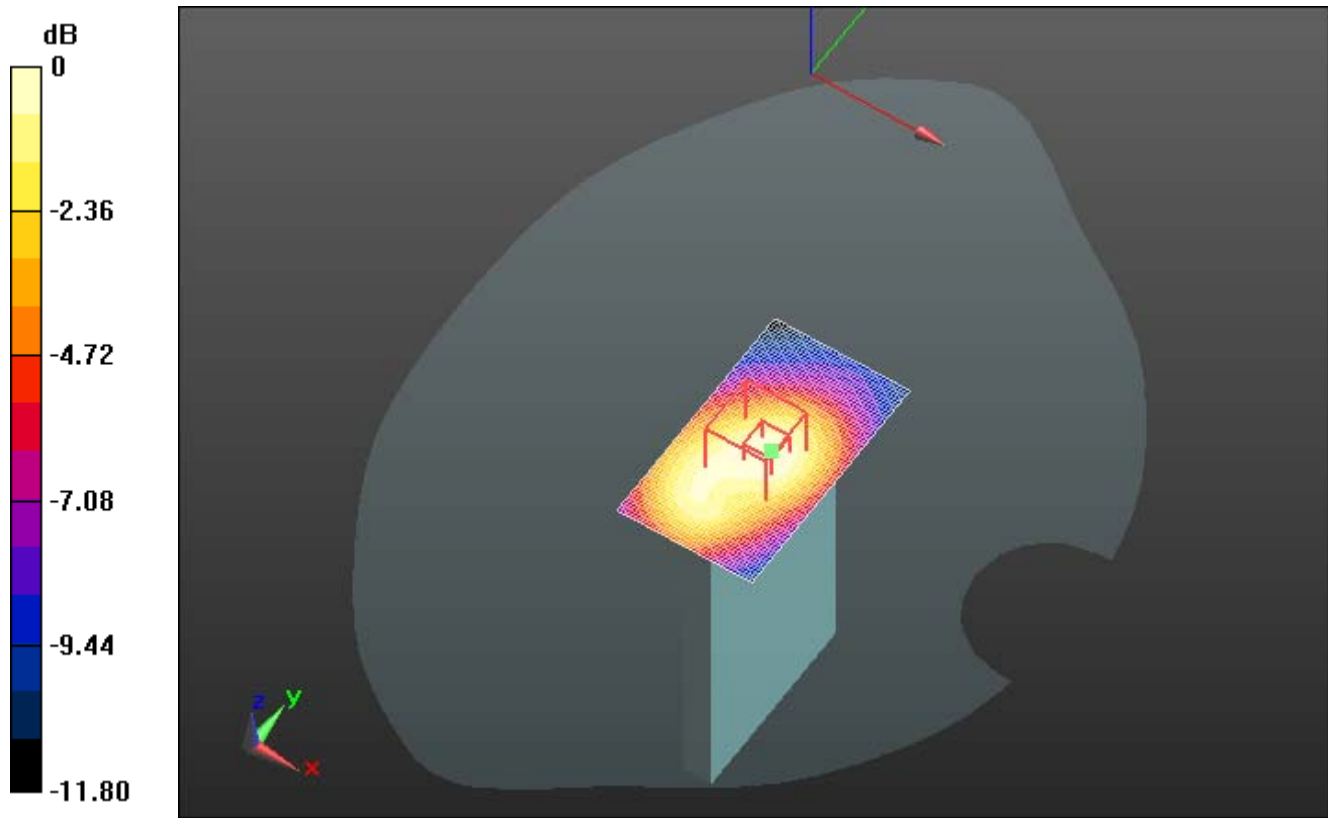
Reference Value = 11.815 V/m; Power Drift = -0.10 dB

Fast SAR: SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.125 W/kg

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

Maximum value of SAR (interpolated) = 0.248 W/kg

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0 dB = 0.248 W/kg = -6.06 dBW/kg

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

Procedure Name: Device

**Back_10mm_2100mA_Batt_Headset_Amb_Temp_23.9C_Liquid_Temp_2
2.3C**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle:
1:1

Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.888 \text{ S/m}$; $\epsilon_r = 51.662$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.11, 4.11, 4.11); Calibrated: 11/13/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

Flat-Section MSL_MHS_Body_SAR/Device

**Back_10mm_2100mA_Batt_Headset_Amb_Temp_23.9C_Liquid_Temp_2
2.3C/Area Scan (71x101x1):** Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

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

Maximum value of SAR (interpolated) = 0.440 W/kg

Flat-Section MSL_MHS_Body_SAR/Device

**Back_10mm_2100mA_Batt_Headset_Amb_Temp_23.9C_Liquid_Temp_2
2.3C/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.861 V/m ; Power Drift = -0.05 dB

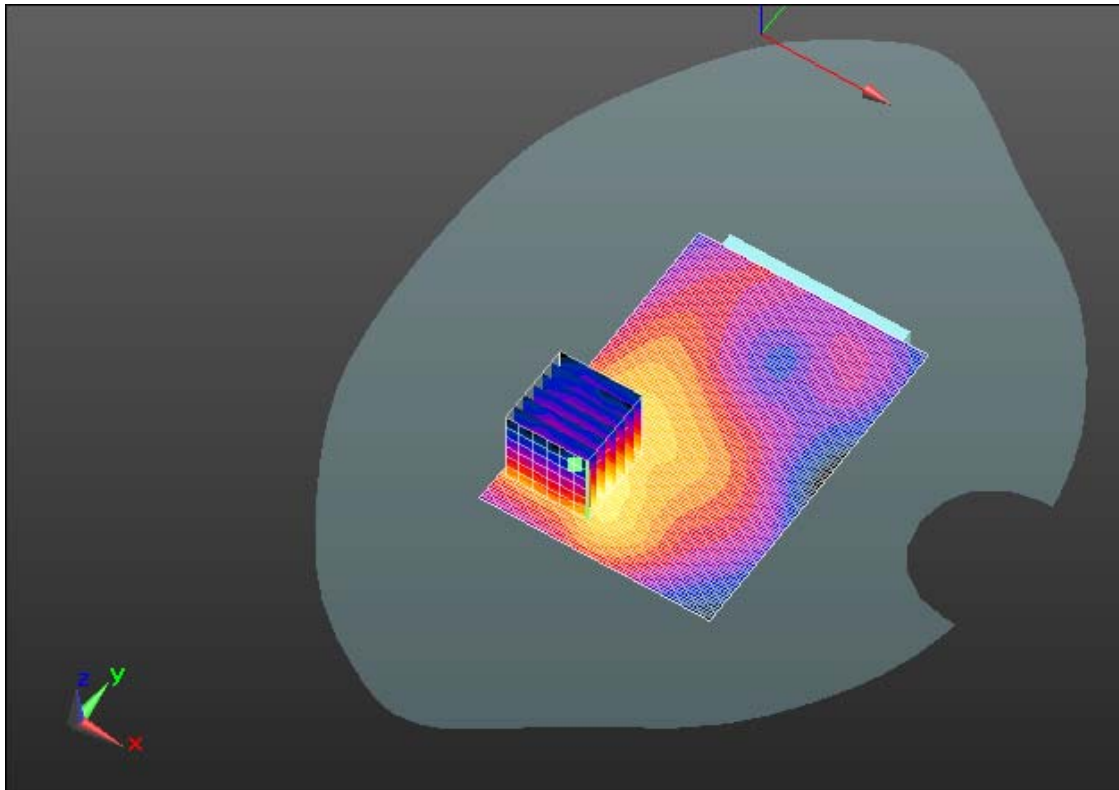
Peak SAR (extrapolated) = 0.920 W/kg

SAR(1 g) = 0.388 W/kg ; SAR(10 g) = 0.191 W/kg

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Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.404 W/kg



0 dB = 0.440 W/kg = -3.56 dBW/kg

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Date: 2/28/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample , Serial: 2668C71D

Configuration: Flat-Section MSL_MHS_Body_SAR 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; $\sigma = 1.919$ S/m; $\epsilon_r = 50.246$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.35,4.35,4.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2012
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.4(1052); SEMCAD X Version 14.6.8 (7028)

Flat-Section MSL_MHS_Body_SAR/Device

Back_10mm_802.11b_Chan_6_Amb_Temp_24.2C_Liquid_Temp_20.5C/Area Scan (71x101x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.660 W/kg

Flat-Section MSL_MHS_Body_SAR/Device

Back_10mm_802.11b_Chan_6_Amb_Temp_24.2C_Liquid_Temp_20.5C/Zoom Scan

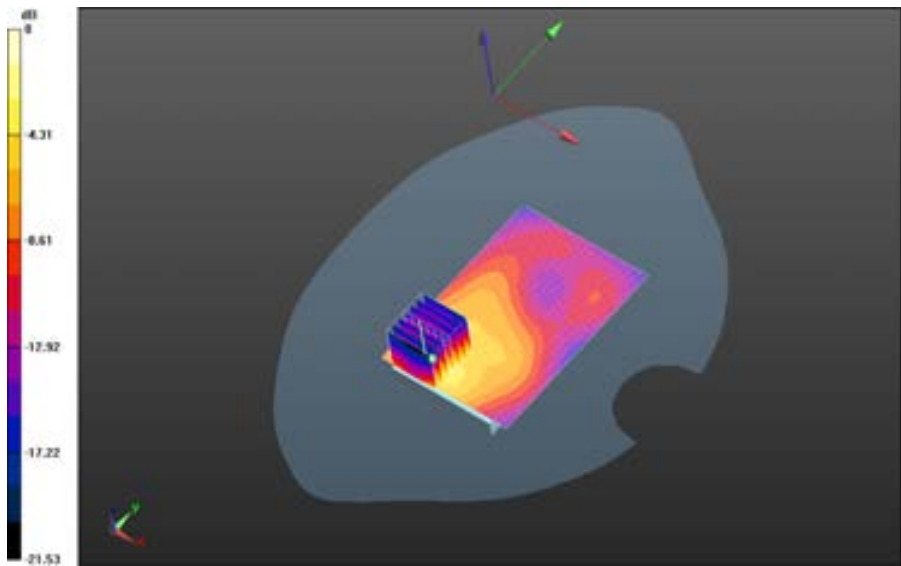
(31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 7.673 V/m; **Power Drift = 0.026 dB**

Averaged SAR: SAR(1g) = 0.484 W/kg; SAR(10g) = 0.224 W/kg

Maximum value of SAR (interpolated) = 1.04 W/kg

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0 dB = 0.642 W/kg = -1.92 dBW/kg

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Flat-Section MSL_MHS_Body_SAR/Device

Back_10mm_Headset_802.11b_Chan_6_Amb_Temp_23.6C_Liquid_Temp_20.6C/Area Scan

(71x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.407 W/kg

Flat-Section MSL_MHS_Body_SAR/Device

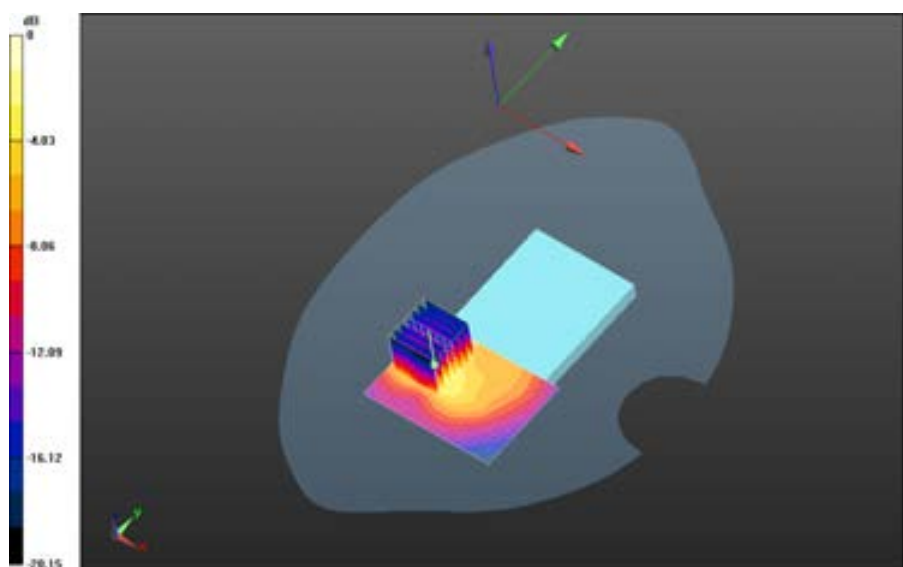
Back_10mm_Headset_802.11b_Chan_6_Amb_Temp_23.6C_Liquid_Temp_20.6C/Zoom Scan

(31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 6.294 V/m; **Power Drift = 0.072 dB**

Averaged SAR: SAR(1g) = 0.335 W/kg; SAR(10g) = 0.154 W/kg

Maximum value of SAR (interpolated) = 0.739 W/kg



0 dB = 0.642 W/kg = -1.92 dBW/kg

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Flat-Section MSL_MHS_Body_SAR/Device

Back_10mm_2100mA_Batt_802.11b_Chan_6_Amb_Temp_23.3C_Liquid_Temp_20.6C/Area

Scan (71x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.597 W/kg

Flat-Section MSL_MHS_Body_SAR/Device

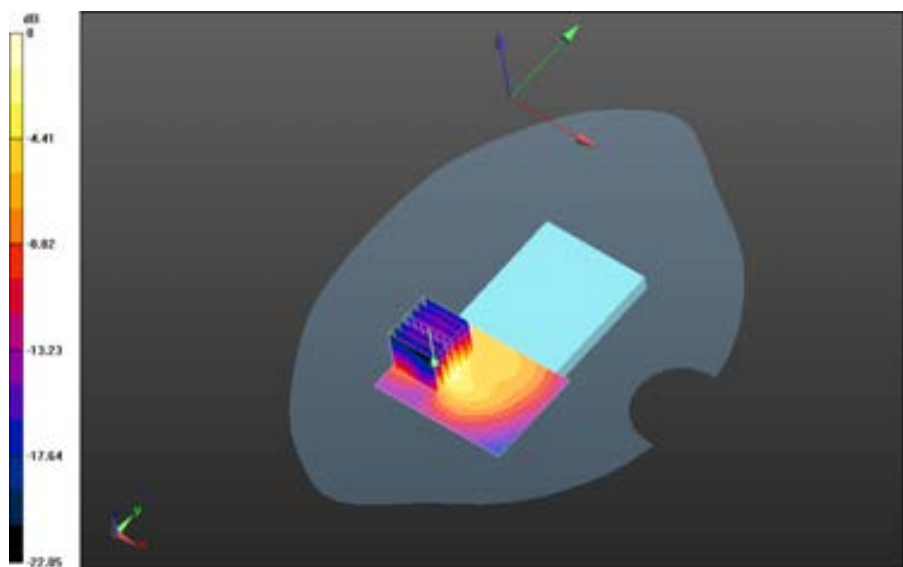
Back_10mm_2100mA_Batt_802.11b_Chan_6_Amb_Temp_23.3C_Liquid_Temp_20.6C/Zoom

Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 7.337 V/m; **Power Drift = -0.00417 dB**

Averaged SAR: SAR(1g) = 0.479 W/kg; SAR(10g) = 0.220 W/kg

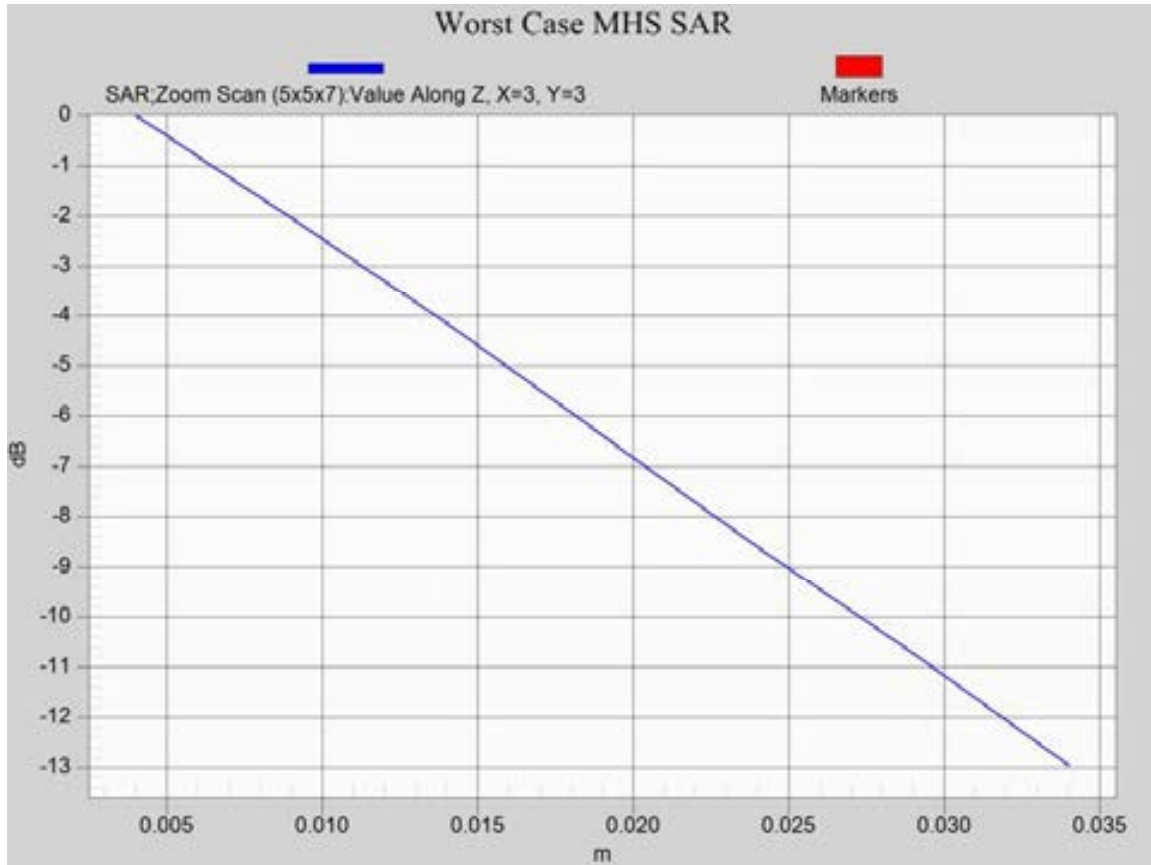
Maximum value of SAR (interpolated) = 1.05 W/kg



0 dB = 0.426 W/kg = -3.71 dBW/kg

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Z axis plot for the worst case hot spot configuration



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Date: 12/12/2014

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2668C71D

Configuration: Mobile Hotspot MSL - 802.11a 5200 MHz

Communication System: 802.11a (0); Communication System Band: Low band; Frequency: 5180 MHz, Duty Cycle: 1:1

Medium Parameters used: $f=5180$ MHz; $\sigma = 5.561$ S/m; $\epsilon_r = 45.712$; $\rho = 1.000$ g/cm³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF: (4.06,4.06,4.06); Calibrated: 11/10/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Back -

802.11a_chan36_low_band_Amb_Temp_23.3C_Liquid_Temp_22.0C/Area Scan (181x241x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Back -

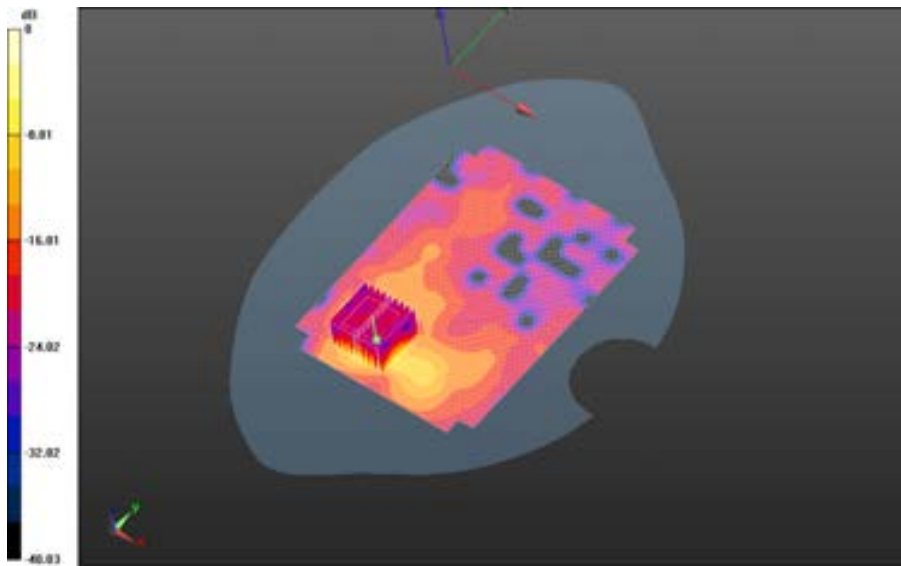
802.11a_chan36_low_band_Amb_Temp_23.3C_Liquid_Temp_22.0C/Zoom Scan (41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 2.142 V/m; Power Drift = 0.285 dB

Averaged SAR: SAR(1g) = 0.526 W/kg; SAR(10g) = 0.153 W/kg

Maximum value of SAR (interpolated) = 2.11 W/kg

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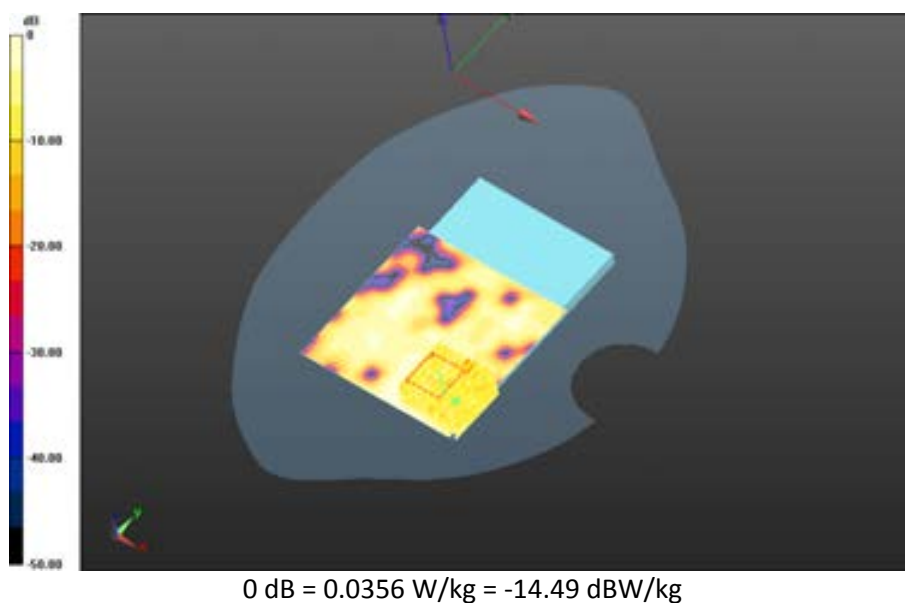
0 dB = 1.08 W/kg = 0.33 dBW/kg

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Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Front -
802.11a_chan36_low_band_Amb_Temp_24.0C_Liquid_Temp_22.1C/Area Scan (101x101x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0371 W/kg

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Front -
802.11a_chan36_low_band_Amb_Temp_24.0C_Liquid_Temp_22.1C/Zoom Scan
(46x46x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.085 V/m; Power Drift = 0.394 dB

Averaged SAR: SAR(1g) = 0.0209 W/kg; SAR(10g) = 0.0110 W/kg
Maximum value of SAR (interpolated) = 0.0809 W/kg

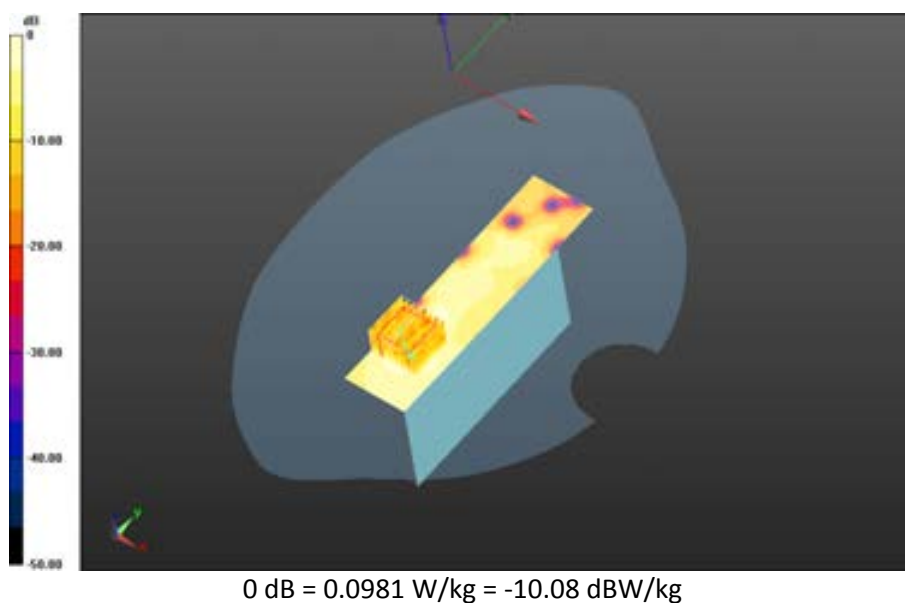


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Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Left -
802.11a_chan36_low_band_Amb_Temp_24.0C_Liquid_Temp_22.0C/Area Scan (181x241x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.100 W/kg

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Left -
802.11a_chan36_low_band_Amb_Temp_24.0C_Liquid_Temp_22.0C/Zoom Scan
(36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 2.991 V/m; Power Drift = 0.056 dB

Averaged SAR: SAR(1g) = 0.0541 W/kg; SAR(10g) = 0.0214 W/kg
Maximum value of SAR (interpolated) = 0.288 W/kg

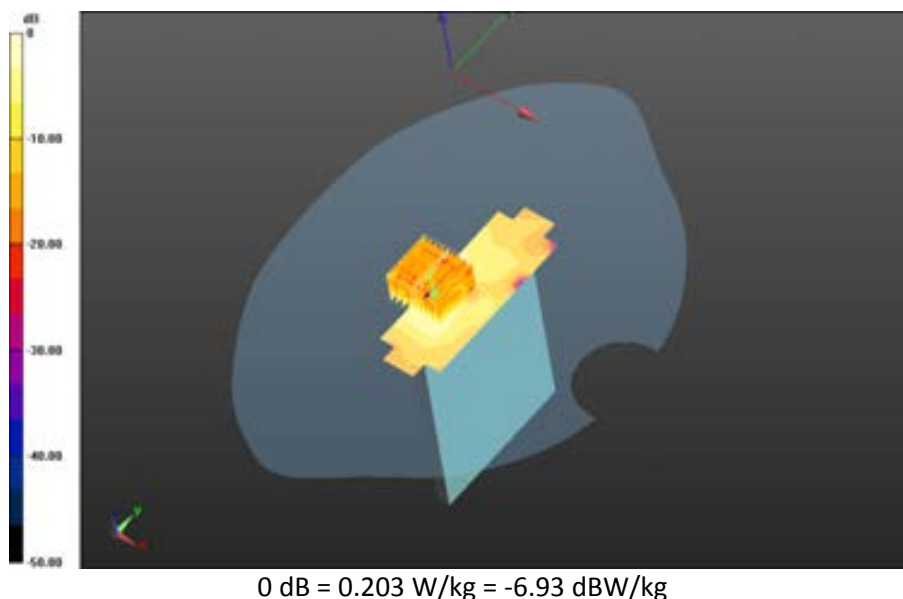


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Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Top -
802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_21.8C/Area Scan (181x241x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.212 W/kg

Mobile Hotspot MSL - 802.11a 5200 MHz/10mm Device Top -
802.11a_chan36_low_band_Amb_Temp_23.4C_Liquid_Temp_21.8C/Zoom Scan
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm
Reference Value = 1.534 V/m; Power Drift = 0.052 dB

Averaged SAR: SAR(1g) = 0.111 W/kg; SAR(10g) = 0.0441 W/kg
Maximum value of SAR (interpolated) = 0.953 W/kg



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Date: 12/11/2014

Test Lab: BlackBerry RTS

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2668C71D

Configuration: Mobile Hotspot MSL - 802.11a 5800 MHz

Communication System: 802.11a (0); Communication System Band: upper band; Frequency: 5745 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1
Medium Parameters used: $f=5745$ MHz; $\sigma = 6.402$ S/m; $\epsilon_r = 44.445$; $\rho = 1.000$ g/cm³
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF: (3.86,3.86,3.86); Calibrated: 11/10/2014;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 3/18/2014
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.8(1222); SEMCAD X Version 14.6.10 (7331)

Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Back -

802.11a_chan149_upper_bandII_Amb_Temp_24.2C_Liquid_Temp_21.9C/Area Scan

(101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.846 W/kg

Mobile Hotspot MSL - 802.11a 5800 MHz/10mm Device Back -

802.11a_chan149_upper_bandII_Amb_Temp_24.2C_Liquid_Temp_21.9C/Zoom Scan

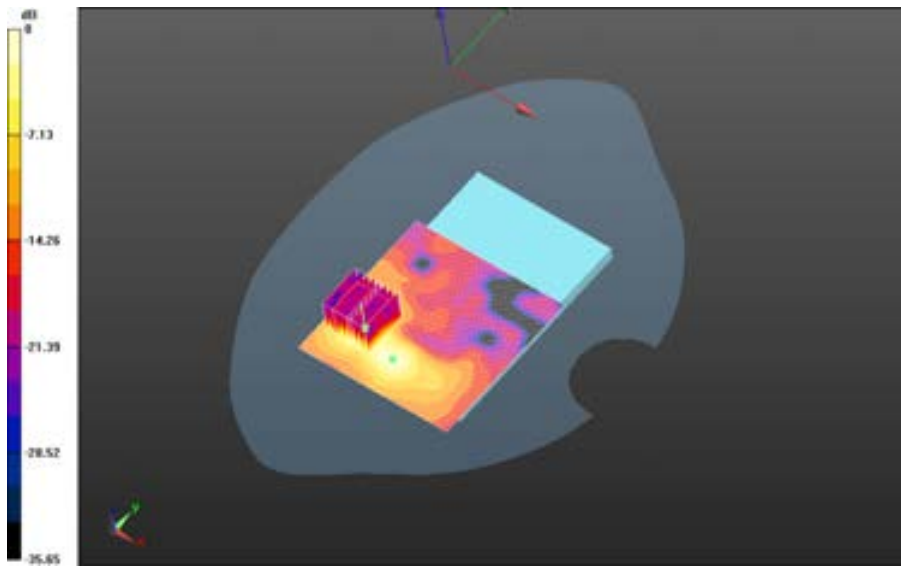
(36x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 1.976 V/m; Power Drift = 0.243 dB

Averaged SAR: SAR(1g) = 0.431 W/kg; SAR(10g) = 0.139 W/kg

Maximum value of SAR (interpolated) = 1.93 W/kg

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0 dB = 0.826 W/kg = -0.83 dBW/kg