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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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DTM/GSM 850

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		IC 2503A-RFY110LW		

Date: 7/13/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Right-Hand-Side HSL - DTM 850

Communication System: GSM 850; Communication System Band: GSM 850; Frequency: 836.8 MHz

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.900$ S/m; $\epsilon_r = 41.540$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - DTM 850/Touch Position -

GSM850_chan190_amb_temp_23.0C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.004 V/m; **Power Drift = 0.037 dB**

Right-Hand-Side HSL - DTM 850/Touch Position -

GSM850_chan190_amb_temp_23.0C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0:

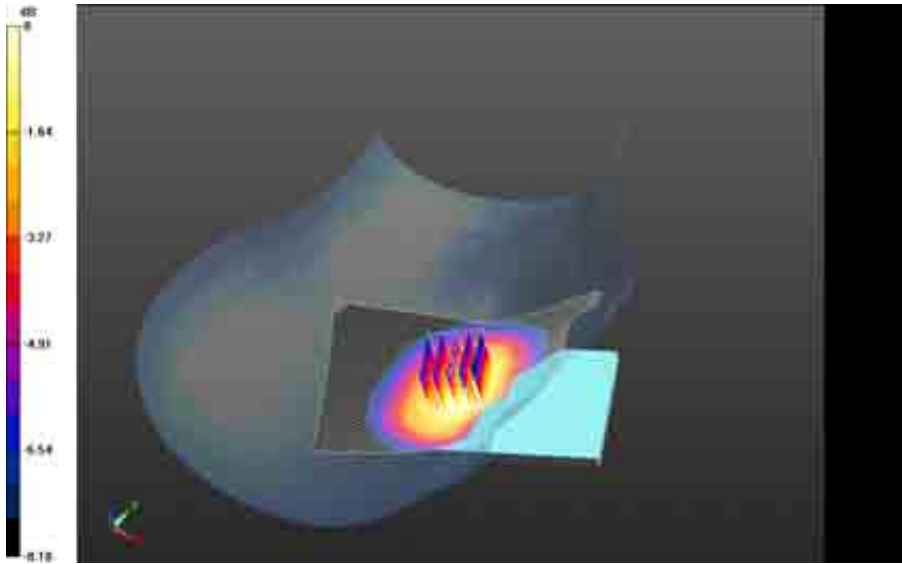
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.004 V/m; **Power Drift = 0.037 dB**

Averaged SAR: SAR(1g) = 0.425 W/kg; SAR(10g) = 0.326 W/kg

Maximum value of SAR (interpolated) = 0.522 W/kg

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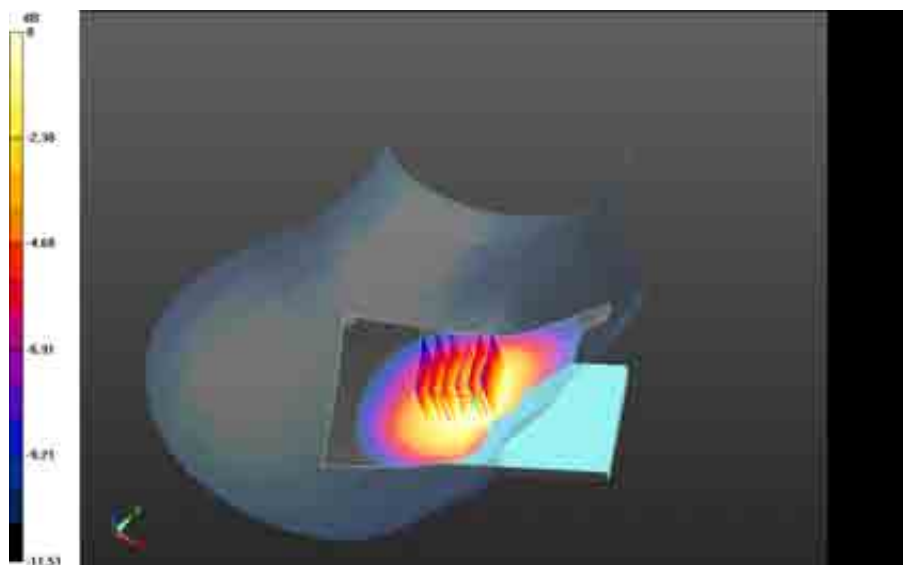
0 dB = 0.461 W/kg = -3.36 dBW/kg

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Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_22.8C_liq_temp_22.6C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 8.210 V/m; **Power Drift = 0.156 dB**

Right-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_22.8C_liq_temp_22.6C/Zoom Scan (26x26x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 8.210 V/m; **Power Drift = 0.156 dB**

Averaged SAR: SAR(1g) = 0.548 W/kg; SAR(10g) = 0.421 W/kg
Maximum value of SAR (interpolated) = 0.672 W/kg



0 dB = 0.461 W/kg = -3.36 dBW/kg

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Right-Hand-Side HSL - DTM 850/Tilt Position - DTM850_3-

Slots_chan190_amb_temp_23.0C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 15.479 V/m; **Power Drift = -0.066 dB**

Right-Hand-Side HSL - DTM 850/Tilt Position - DTM850_3-

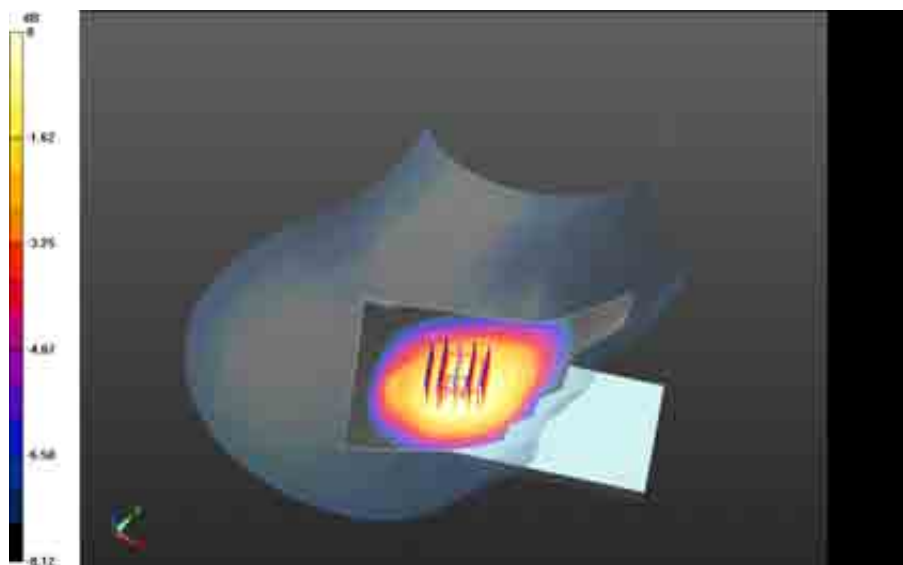
Slots_chan190_amb_temp_23.0C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 15.479 V/m; **Power Drift = -0.066 dB**

Averaged SAR: SAR(1g) = 0.321 W/kg; SAR(10g) = 0.246 W/kg

Maximum value of SAR (interpolated) = 0.397 W/kg



0 dB = 0.599 W/kg = -2.23 dBW/kg

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Date: 7/13/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Left-Hand-Side HSL - DTM 850

Communication System: GSM 850; Communication System Band: GSM 850; Frequency: 836.8 MHz

Medium Parameters used: $f=836.8$ MHz; $\sigma = 0.900$ S/m; $\epsilon_r = 41.540$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - DTM 850/Touch Position -

GSM850_chan190_amb_temp_23.2C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.737 V/m; **Power Drift = -0.020 dB**

Left-Hand-Side HSL - DTM 850/Touch Position -

GSM850_chan190_amb_temp_23.2C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0:

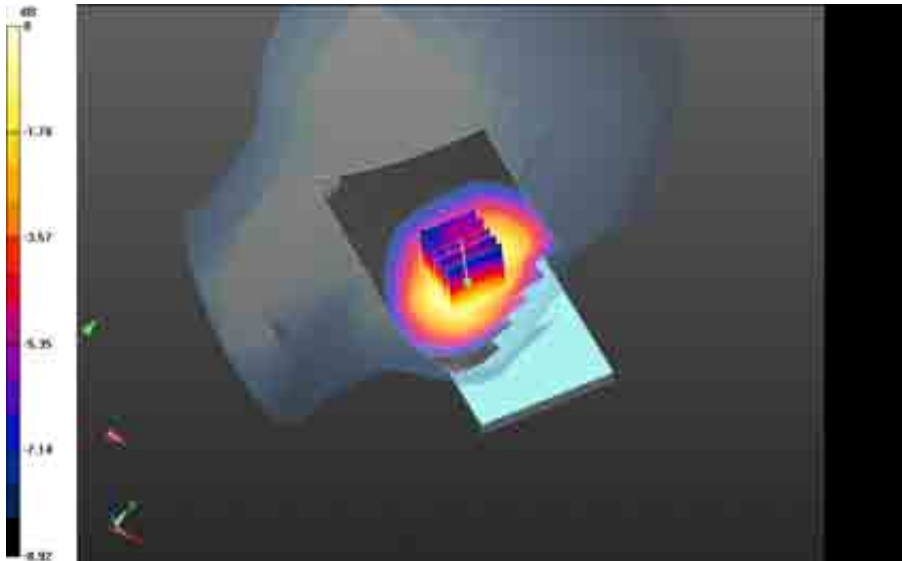
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.737 V/m; **Power Drift = -0.020 dB**

Averaged SAR: SAR(1g) = 0.473 W/kg; SAR(10g) = 0.356 W/kg

Maximum value of SAR (interpolated) = 0.605 W/kg

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0 dB = 0.524 W/kg = -2.81 dBW/kg

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Left-Hand-Side HSL - DTM 850/Touch Position -

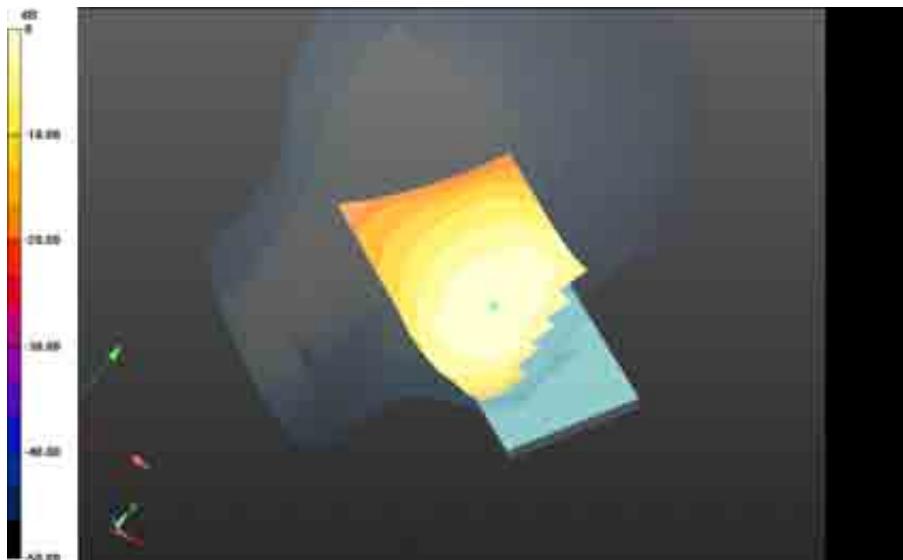
DTM850_chan190_amb_temp_23.2C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.369 V/m; **Power Drift = -0.044 dB**

Fast SAR: SAR(1g) = 0.545 W/kg; SAR(10g) = 0.371 W/kg

Maximum value of SAR (interpolated) = 0.624 W/kg



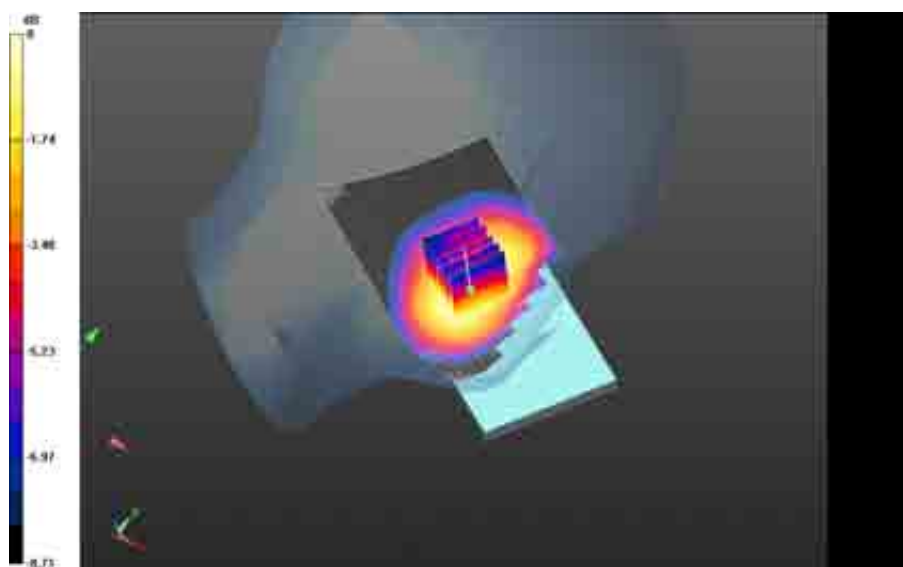
0 dB = 0.524 W/kg = -2.81 dBW/kg

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Left-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 7.484 V/m; **Power Drift = -0.024 dB**

Left-Hand-Side HSL - DTM 850/Touch Position - DTM850_3-Slots_chan190_amb_temp_23.3C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 7.484 V/m; **Power Drift = -0.024 dB**

Averaged SAR: SAR(1g) = 0.573 W/kg; SAR(10g) = 0.434 W/kg
Maximum value of SAR (interpolated) = 0.737 W/kg

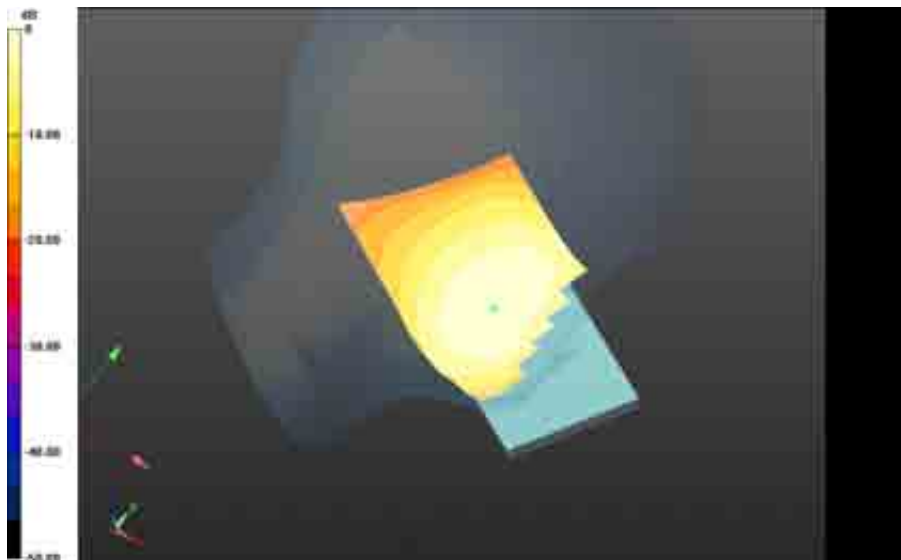


0 dB = 0.624 W/kg = -2.05 dBW/kg

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Left-Hand-Side HSL - DTM 850/Touch Position - EDGE850_4-
Slots_chan190_amb_temp_22.7C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 7.192 V/m; **Power Drift = -0.060 dB**

Fast SAR: SAR(1g) = 0.522 W/kg; SAR(10g) = 0.356 W/kg
Maximum value of SAR (interpolated) = 0.599 W/kg



0 dB = 0.636 W/kg = -1.97 dBW/kg

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Left-Hand-Side HSL - DTM 850/Tilt Position - DTM850_3-

Slots_chan190_amb_temp_23.0C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 14.427 V/m; **Power Drift = 0.091 dB**

Left-Hand-Side HSL - DTM 850/Tilt Position - DTM850_3-

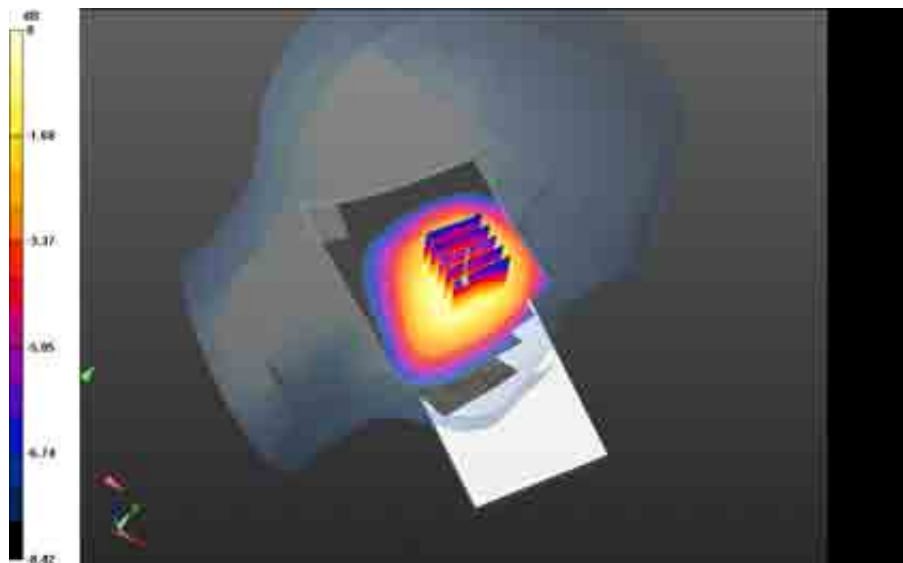
Slots_chan190_amb_temp_23.0C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:

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

Reference Value = 14.427 V/m; **Power Drift = 0.091 dB**

Averaged SAR: SAR(1g) = 0.331 W/kg; SAR(10g) = 0.252 W/kg

Maximum value of SAR (interpolated) = 0.415 W/kg



0 dB = 0.599 W/kg = -2.23 dBW/kg

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UMTS Band V

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Date: 7/15/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Right-Hand-Side HSL - 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; $\sigma = 0.899$ S/m; $\epsilon_r = 41.545$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - UMTS band V/Touch Position - UMTS band V_chan4182

_amb_temp_23.6C_liq_temp_23.0C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.556 V/m; **Power Drift = 0.075 dB**

Right-Hand-Side HSL - UMTS band V/Touch Position - UMTS band V_chan4182

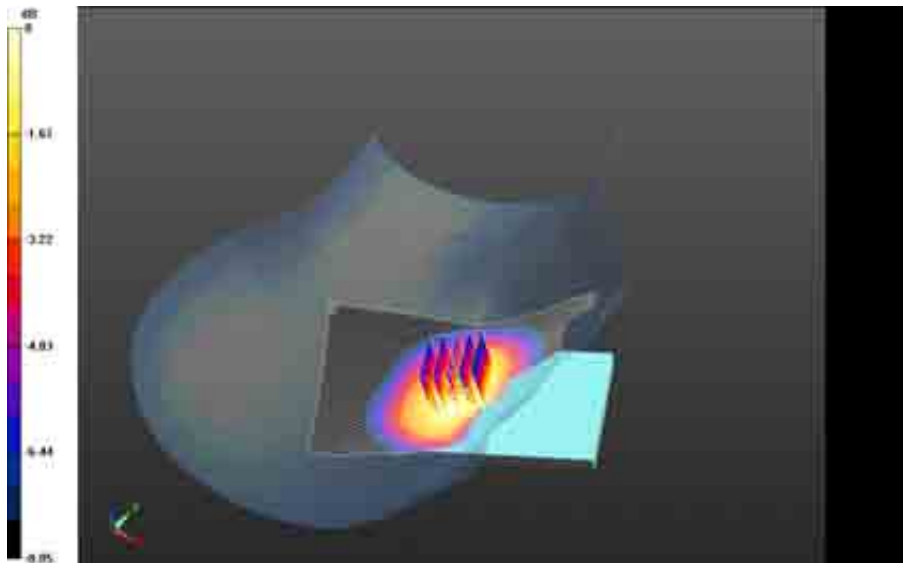
_amb_temp_23.6C_liq_temp_23.0C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.556 V/m; **Power Drift = 0.075 dB**

Averaged SAR: SAR(1g) = 0.390 W/kg; SAR(10g) = 0.299 W/kg

Maximum value of SAR (interpolated) = 0.472 W/kg

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0 dB = 0.424 W/kg = -3.73 dBW/kg

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Right-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band

V_chan4182_amb_temp_23.6C_liq_temp_23.0C/Area Scan (61x101x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 12.136 V/m; **Power Drift = 0.039 dB**

Right-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band

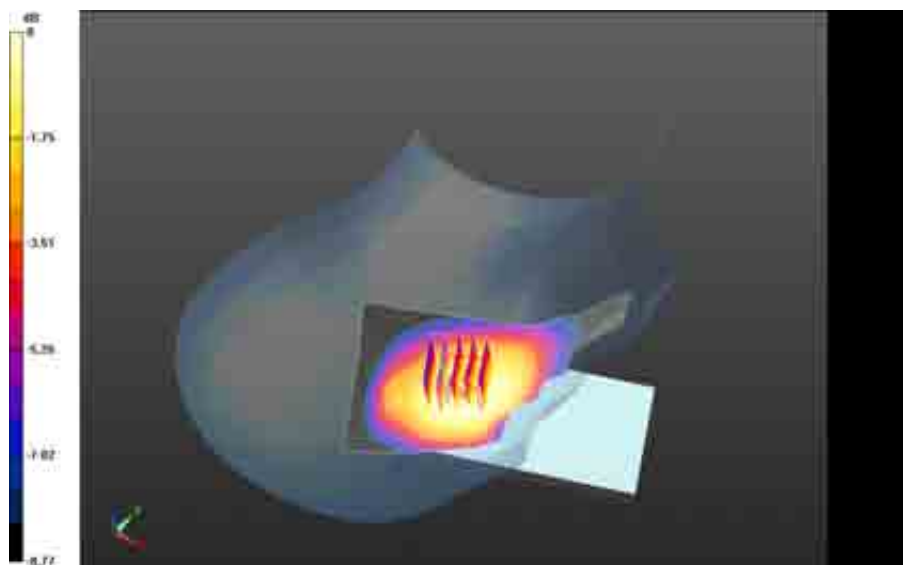
V_chan4182_amb_temp_23.6C_liq_temp_23.0C/Zoom Scan (21x21x36)/Cube 0: Interpolated

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

Reference Value = 12.136 V/m; **Power Drift = 0.039 dB**

Averaged SAR: SAR(1g) = 0.222 W/kg; SAR(10g) = 0.174 W/kg

Maximum value of SAR (interpolated) = 0.270 W/kg



0 dB = 0.424 W/kg = -3.73 dBW/kg

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Date: 7/15/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Left-Hand-Side HSL - 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; $\sigma = 0.899$ S/m; $\epsilon_r = 41.545$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - UMTS band V/Touch Position - UMTS band

V_chan4182_amb_temp_23.6C_liq_temp_23.0C/Area Scan (61x101x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 6.804 V/m; **Power Drift = 0.056 dB**

Left-Hand-Side HSL - UMTS band V/Touch Position - UMTS band

V_chan4182_amb_temp_23.6C_liq_temp_23.0C/Zoom Scan (21x21x36)/Cube 0: Interpolated

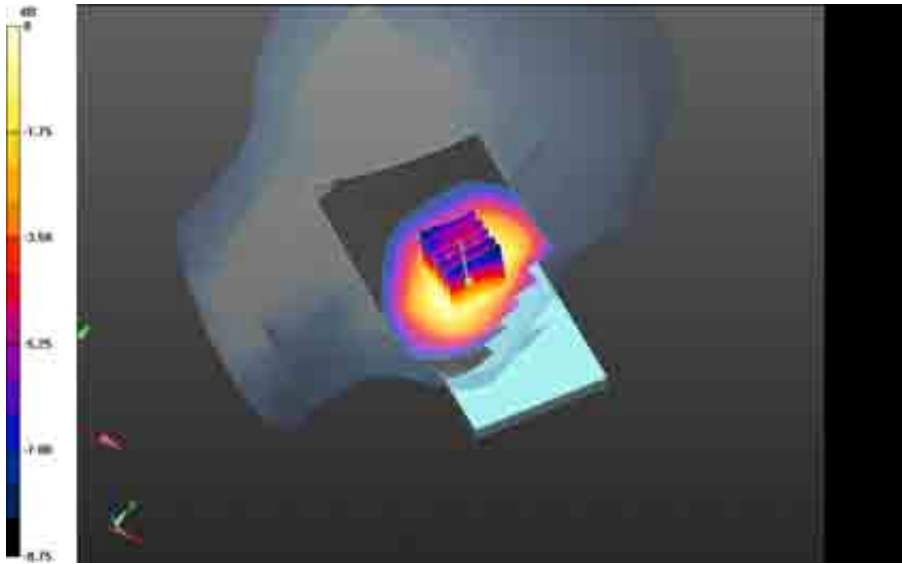
grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.804 V/m; **Power Drift = 0.056 dB**

Averaged SAR: SAR(1g) = 0.448 W/kg; SAR(10g) = 0.341 W/kg

Maximum value of SAR (interpolated) = 0.557 W/kg

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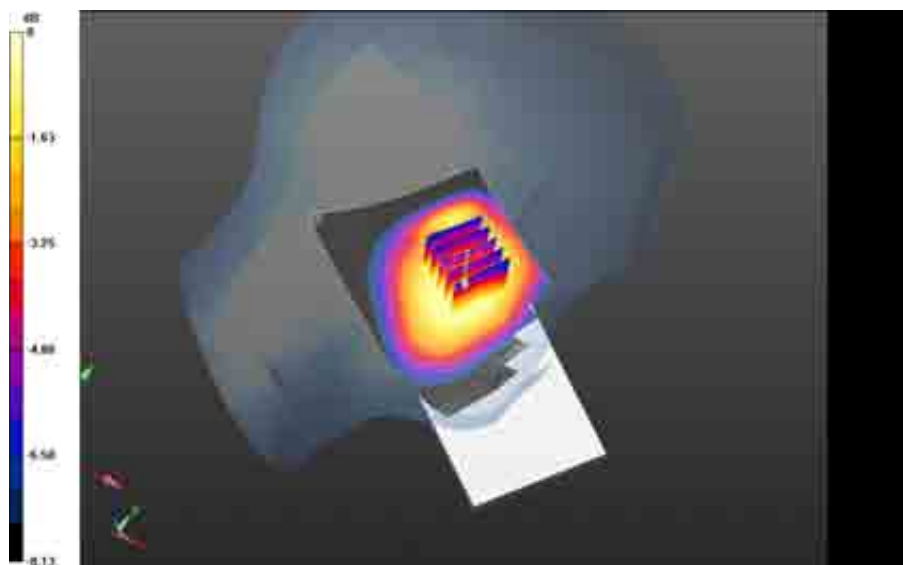
0 dB = 0.493 W/kg = -3.07 dBW/kg

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Left-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band V_chan4182_amb_temp_23.4C_liq_temp_23.0C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 11.625 V/m; **Power Drift = 0.061 dB**

Left-Hand-Side HSL - UMTS band V/Tilt Position - UMTS band V_chan4182_amb_temp_23.4C_liq_temp_23.0C/Zoom Scan (21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm
Reference Value = 11.625 V/m; **Power Drift = 0.061 dB**

Averaged SAR: SAR(1g) = 0.255 W/kg; SAR(10g) = 0.197 W/kg
Maximum value of SAR (interpolated) = 0.312 W/kg



0 dB = 0.493 W/kg = -3.07 dBW/kg

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LTE Band 5

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Date: 7/15/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2

Configuration: Right-Hand-Side HSL - LTE Band 5

Communication System: LTE 5; Communication System Band: LTE 5; Frequency: 829 MHz

Medium Parameters used: $f=829$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 41.643$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - LTE Band 5/Touch Position -

LTE_Band_5_chan20450_RB1_OFFSET49_amb_temp_23.4C_liq_temp_22.5C/Area Scan

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

Reference Value = 6.428 V/m; **Power Drift = 0.125 dB**

Right-Hand-Side HSL - LTE Band 5/Touch Position -

LTE_Band_5_chan20450_RB1_OFFSET49_amb_temp_23.4C_liq_temp_22.5C/Zoom Scan

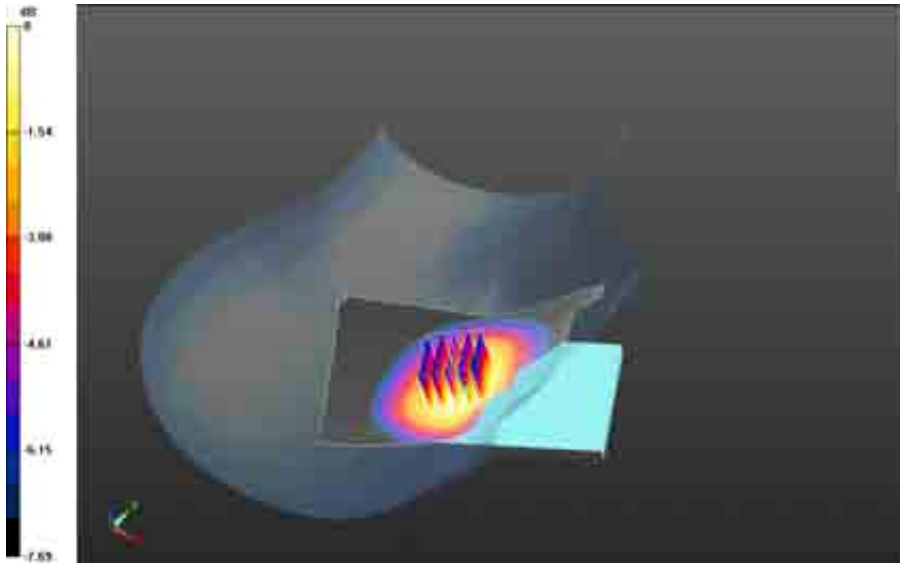
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.428 V/m; **Power Drift = 0.125 dB**

Averaged SAR: SAR(1g) = 0.353 W/kg; SAR(10g) = 0.273 W/kg

Maximum value of SAR (interpolated) = 0.429 W/kg

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0 dB = 0.384 W/kg = -4.16 dBW/kg

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Right-Hand-Side HSL - LTE Band 5/Touch Position -

LTE_Band_5_chan20525_RB25_OFFSET25_amb_temp_23.3C_liq_temp_22.5C/Area Scan

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

Reference Value = 5.423 V/m; **Power Drift = 0.113 dB**

Fast SAR: SAR(1g) = 0.254 W/kg; SAR(10g) = 0.173 W/kg

Maximum value of SAR (interpolated) = 0.289 W/kg



0 dB = 0.384 W/kg = -4.16 dBW/kg

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Right-Hand-Side HSL - LTE Band 5/Tilt Position -

LTE_Band_5_chan20450_RB1_OFFSET49_amb_temp_23.2C_liq_temp_22.5C/Area Scan

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

Reference Value = 12.119 V/m; **Power Drift = 0.046 dB**

Fast SAR: SAR(1g) = 0.211 W/kg; SAR(10g) = 0.146 W/kg

Maximum value of SAR (interpolated) = 0.240 W/kg



0 dB = 0.289 W/kg = -5.39 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW	

Date: 7/15/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2

Configuration: Left-Hand-Side HSL - LTE Band 5

Communication System: LTE 5; Communication System Band: LTE 5; Frequency: 829 MHz

Medium Parameters used: $f=829$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 41.643$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (6.19,6.19,6.19); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - LTE Band 5/Touch Position -

LTE_Band_5_chan20450_RB1_OFFSET49_amb_temp_23.2C_liq_temp_22.5C/Area Scan

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

Reference Value = 7.404 V/m; **Power Drift = -0.173 dB**

Left-Hand-Side HSL - LTE Band 5/Touch Position -

LTE_Band_5_chan20450_RB1_OFFSET49_amb_temp_23.2C_liq_temp_22.5C/Zoom Scan

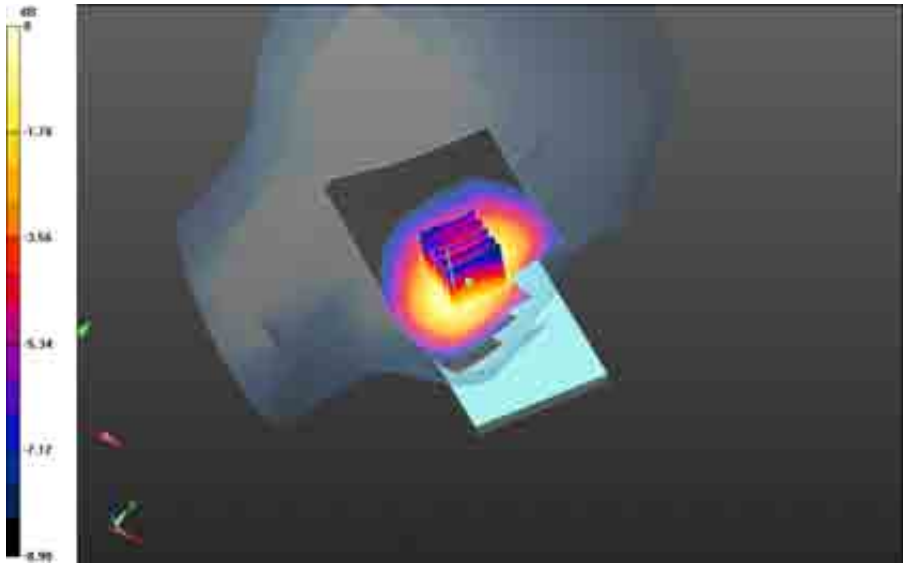
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.404 V/m; **Power Drift = -0.173 dB**

Averaged SAR: SAR(1g) = 0.407 W/kg; SAR(10g) = 0.306 W/kg

Maximum value of SAR (interpolated) = 0.512 W/kg

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0 dB = 0.446 W/kg = -3.51 dBW/kg

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Left-Hand-Side HSL - LTE Band 5/Touch Position -

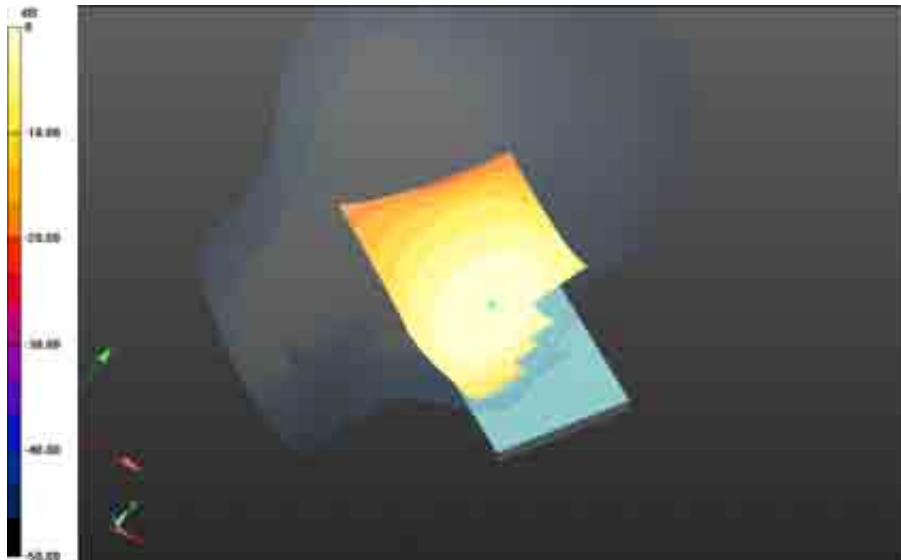
LTE_Band_5_chan20525_RB25_OFFSET25_amb_temp_23.2C_liq_temp_22.5C/Area Scan

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

Reference Value = 5.912 V/m; **Power Drift = 0.115 dB**

Fast SAR: SAR(1g) = 0.273 W/kg; SAR(10g) = 0.186 W/kg

Maximum value of SAR (interpolated) = 0.312 W/kg



0 dB = 0.446 W/kg = -3.51 dBW/kg

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Left-Hand-Side HSL - LTE Band 5/Tilt Position -

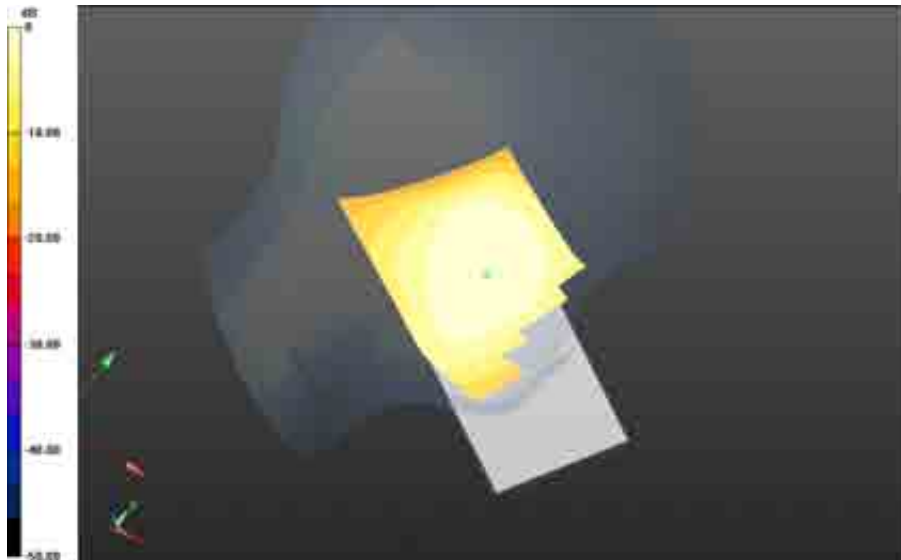
LTE_Band_5_chan20450_RB1_OFFSET49_amb_temp_23.3C_liq_temp_22.6C/Area Scan

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

Reference Value = 12.183 V/m; **Power Drift = 0.155 dB**

Fast SAR: SAR(1g) = 0.241 W/kg; SAR(10g) = 0.168 W/kg

Maximum value of SAR (interpolated) = 0.274 W/kg



0 dB = 0.312 W/kg = -5.06 dBW/kg

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LTE Band 4

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Date: 7/11/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2

Configuration: Right-Hand-Side HSL - LTE Band 4

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

Medium Parameters used: $f=1745$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 38.468$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - LTE Band 4/Touch Position -

LTE_Band_4_chan20300_RB1_OFFSET50_amb_temp_23.1C_liq_temp_22.2C/Area Scan

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

Reference Value = 8.264 V/m; **Power Drift = 0.094 dB**

Right-Hand-Side HSL - LTE Band 4/Touch Position -

LTE_Band_4_chan20300_RB1_OFFSET50_amb_temp_23.1C_liq_temp_22.2C/Zoom Scan

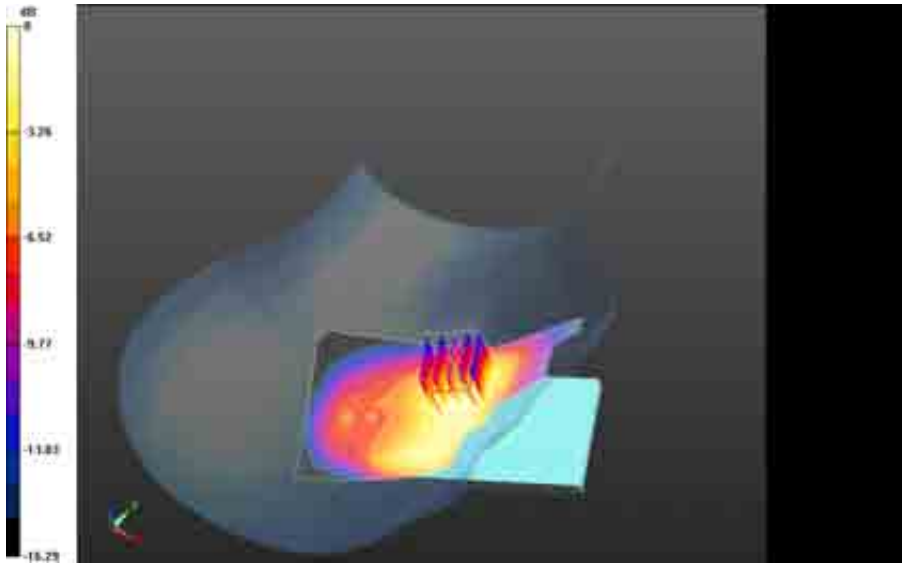
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 8.264 V/m; **Power Drift = 0.094 dB**

Averaged SAR: SAR(1g) = 0.393 W/kg; SAR(10g) = 0.251 W/kg

Maximum value of SAR (interpolated) = 0.560 W/kg

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0 dB = 0.460 W/kg = -3.37 dBW/kg

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Right-Hand-Side HSL - LTE Band 4/Touch Position -

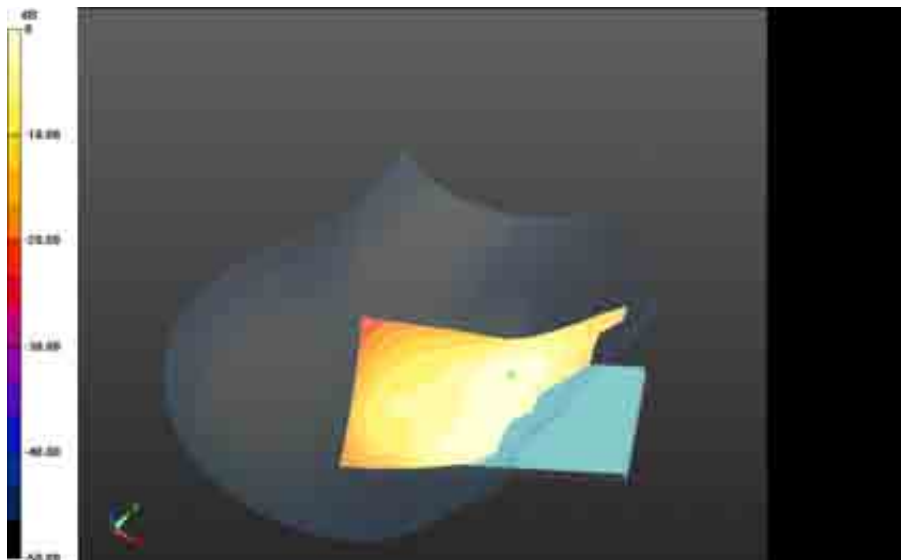
LTE_Band_4_chan20300_RB50_OFFSET50_amb_temp_23.0C_liq_temp_22.1C 2/Area Scan

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

Reference Value = 7.621 V/m; **Power Drift = 0.107 dB**

Fast SAR: SAR(1g) = 0.317 W/kg; SAR(10g) = 0.189 W/kg

Maximum value of SAR (interpolated) = 0.384 W/kg



0 dB = 0.460 W/kg = -3.37 dBW/kg

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Right-Hand-Side HSL - LTE Band 4/Tilt Position -

LTE_Band_4_chan20300_RB1_OFFSET50_amb_temp_23.0C_liq_temp_22.1C/Area Scan

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

Reference Value = 13.200 V/m; **Power Drift = -0.019 dB**

Fast SAR: SAR(1g) = 0.193 W/kg; SAR(10g) = 0.111 W/kg

Maximum value of SAR (interpolated) = 0.246 W/kg



0 dB = 0.384 W/kg = -4.16 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW	

Date: 7/11/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2

Configuration: Left-Hand-Side HSL - LTE Band 4

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

Medium Parameters used: $f=1745$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 38.468$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - LTE Band 4/Touch Position -

LTE_Band_4_chan20300_RB1_OFFSET50_amb_temp_23.0C_liq_temp_22.2C/Area Scan

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

Reference Value = 7.398 V/m; **Power Drift = -0.019 dB**

Left-Hand-Side HSL - LTE Band 4/Touch Position -

LTE_Band_4_chan20300_RB1_OFFSET50_amb_temp_23.0C_liq_temp_22.2C/Zoom Scan

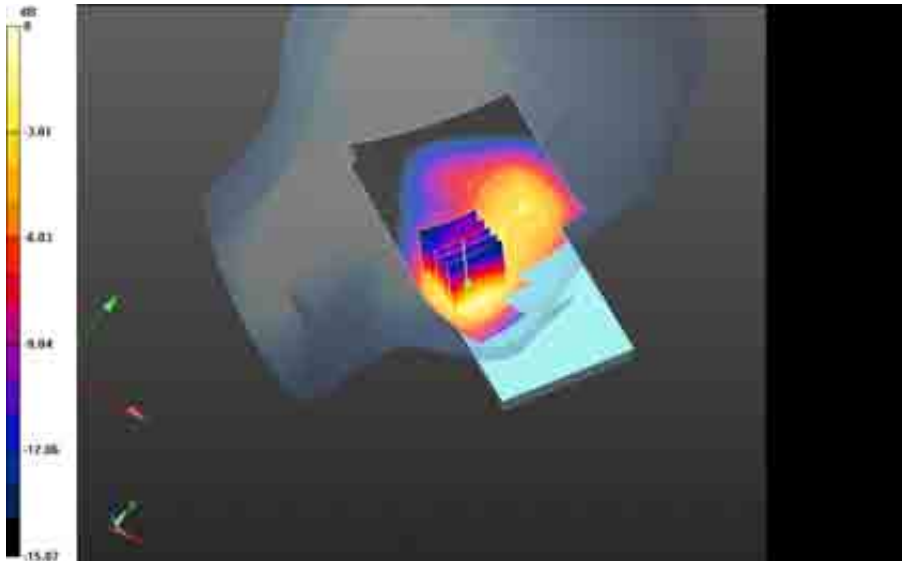
(21x21x36)/Cube 0: Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.398 V/m; **Power Drift = -0.019 dB**

Averaged SAR: SAR(1g) = 0.595 W/kg; SAR(10g) = 0.371 W/kg

Maximum value of SAR (interpolated) = 0.904 W/kg

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0 dB = 0.705 W/kg = -1.52 dBW/kg

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Left-Hand-Side HSL - LTE Band 4/Touch Position -

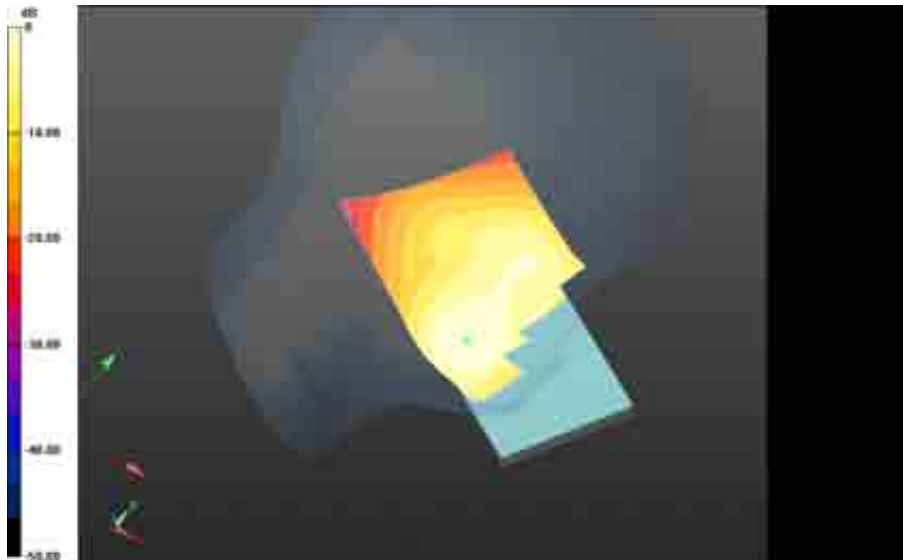
LTE_Band_4_chan20300_RB50_OFFSET50_amb_temp_23.1C_liq_temp_22.0C/Area Scan

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

Reference Value = 6.671 V/m; **Power Drift = -0.024 dB**

Fast SAR: SAR(1g) = 0.466 W/kg; SAR(10g) = 0.279 W/kg

Maximum value of SAR (interpolated) = 0.568 W/kg



0 dB = 0.705 W/kg = -1.52 dBW/kg

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Left-Hand-Side HSL - LTE Band 4/Tilt Position -

LTE_Band_4_chan20300_RB1_OFFSET50_amb_temp_23.1C_liq_temp_22.2C/Area Scan

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

Reference Value = 11.681 V/m; **Power Drift = -0.085 dB**

Fast SAR: SAR(1g) = 0.233 W/kg; SAR(10g) = 0.141 W/kg

Maximum value of SAR (interpolated) = 0.282 W/kg



0 dB = 0.568 W/kg = -2.46 dBW/kg

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UMTS Band IV

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Date: 7/10/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2

Configuration: Right-Hand-Side HSL - UMTS IV

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV;

Frequency: 1732.6 MHz

Medium Parameters used: $f=1732.6$ MHz; $\sigma = 1.356$ S/m; $\epsilon_r = 38.492$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - UMTS IV/Touch Position -

UMTS_IV_chan1413_amb_temp_24.1C_liq_temp_23.0C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.282 V/m; **Power Drift = 0.122 dB**

Right-Hand-Side HSL - UMTS IV/Touch Position -

UMTS_IV_chan1413_amb_temp_24.1C_liq_temp_23.0C/Zoom Scan (26x26x36)/Cube 0:

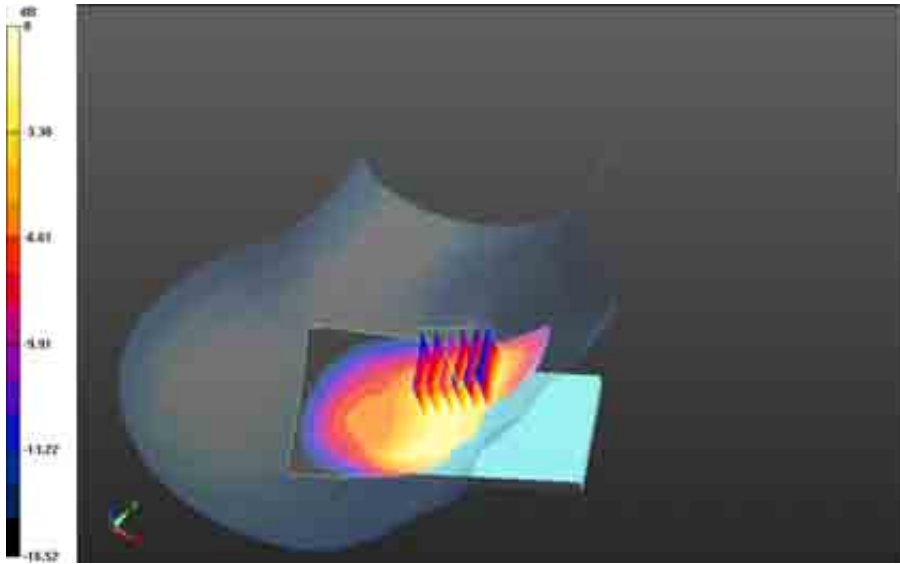
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 8.282 V/m; **Power Drift = 0.122 dB**

Averaged SAR: SAR(1g) = 0.428 W/kg; SAR(10g) = 0.277 W/kg

Maximum value of SAR (interpolated) = 0.611 W/kg

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0 dB = 0.494 W/kg = -3.06 dBW/kg

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Right-Hand-Side HSL - UMTS IV/Tilt Position -

UMTS_IV_chan1413_amb_temp_24.0C_liq_temp_22.9C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 13.629 V/m; **Power Drift = -0.066 dB**

Fast SAR: SAR(1g) = 0.203 W/kg; SAR(10g) = 0.116 W/kg

Maximum value of SAR (interpolated) = 0.250 W/kg



0 dB = 0.494 W/kg = -3.06 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Date: 7/10/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2

Configuration: Left-Hand-Side HSL - UMTS IV

Communication System: WCDMA FDD IV; Communication System Band: UMTS band IV;

Frequency: 1732.6 MHz

Medium Parameters used: $f=1732.6$ MHz; $\sigma = 1.356$ S/m; $\epsilon_r = 38.492$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - UMTS IV/Touch Position -

UMTS_IV_chan1413_amb_temp_23.2C_liq_temp_22.6C/Area Scan (61x91x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.588 V/m; **Power Drift = -0.087 dB**

Left-Hand-Side HSL - UMTS IV/Touch Position -

UMTS_IV_chan1413_amb_temp_23.2C_liq_temp_22.6C/Zoom Scan (21x21x36)/Cube 0:

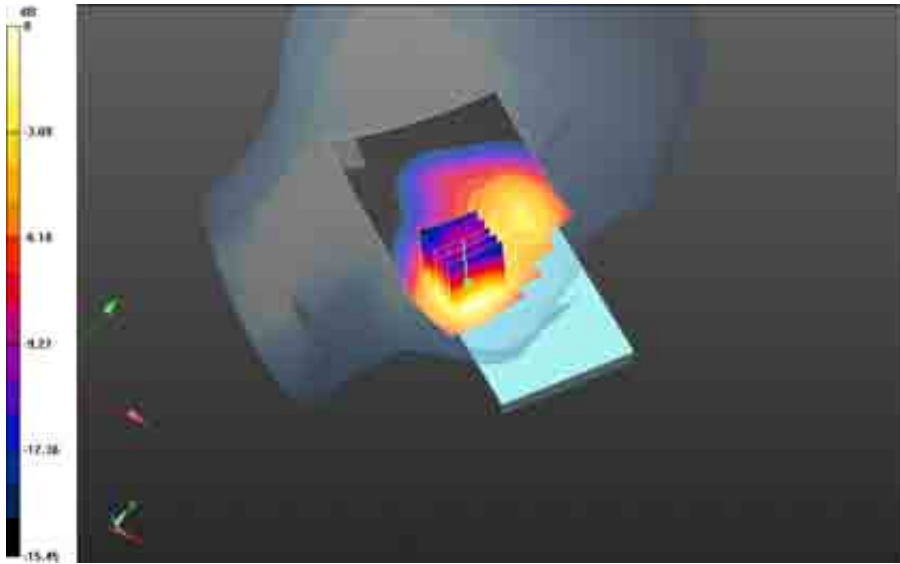
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.588 V/m; **Power Drift = -0.087 dB**

Averaged SAR: SAR(1g) = 0.631 W/kg; SAR(10g) = 0.398 W/kg

Maximum value of SAR (interpolated) = 0.942 W/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW



0 dB = 0.737 W/kg = -1.33 dBW/kg

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Left-Hand-Side HSL - UMTS IV/Tilt Position -

UMTS_IV_chan1413_amb_temp_23.1C_liq_temp_22.6C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.929 V/m; **Power Drift = -0.000119 dB**

Fast SAR: SAR(1g) = 0.261 W/kg; SAR(10g) = 0.155 W/kg

Maximum value of SAR (interpolated) = 0.325 W/kg



0 dB = 0.737 W/kg = -1.33 dBW/kg

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DTM/GSM 1900

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Date: 7/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Right-Hand-Side HSL - DTM 1900

Communication System: GSM 1900; Communication System Band: GSM 1900; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 38.655$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - DTM 1900/Touch Position -

GSM1900_chan661_amb_temp_24.1C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.122 V/m; **Power Drift = 0.060 dB**

Right-Hand-Side HSL - DTM 1900/Touch Position -

GSM1900_chan661_amb_temp_24.1C_liq_temp_22.5C/Zoom Scan (21x21x36)/Cube 0:

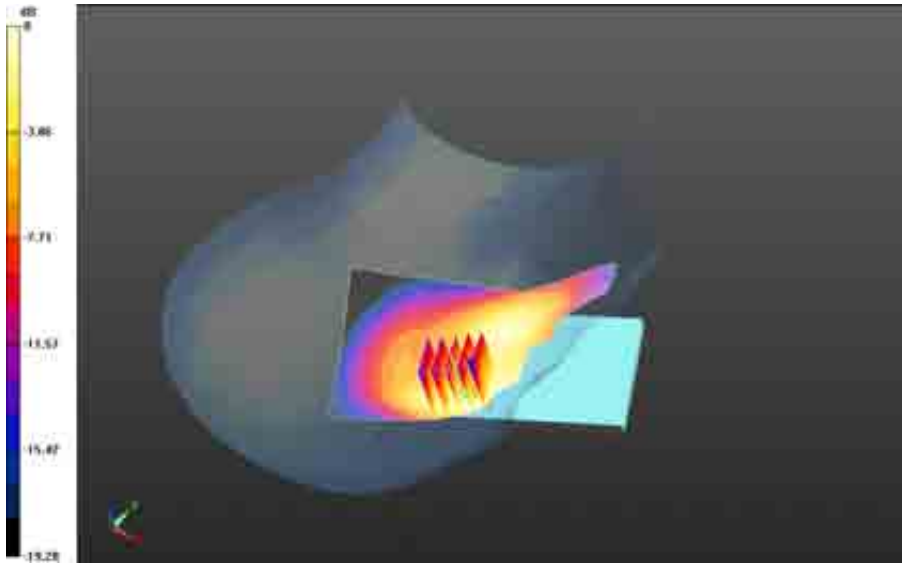
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 5.122 V/m; **Power Drift = 0.060 dB**

Averaged SAR: SAR(1g) = 0.201 W/kg; SAR(10g) = 0.127 W/kg

Maximum value of SAR (interpolated) = 0.296 W/kg

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0 dB = 0.235 W/kg = -6.29 dBW/kg

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Right-Hand-Side HSL - DTM 1900/Tilt Position -

GSM1900_chan661_amb_temp_24.1C_liq_temp_22.6C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.262 V/m; **Power Drift = 0.050 dB**

Fast SAR: SAR(1g) = 0.0774 W/kg; SAR(10g) = 0.0454 W/kg

Maximum value of SAR (interpolated) = 0.0975 W/kg



0 dB = 0.235 W/kg = -6.29 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Date: 7/8/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Left-Hand-Side HSL - DTM 1900

Communication System: GSM 1900; Communication System Band: GSM 1900; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 38.655$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - DTM 1900/Touch Position -

GSM1900_chan661_amb_temp_23.9C_liq_temp_22.7C/Area Scan (61x101x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.273 V/m; **Power Drift = -0.133 dB**

Left-Hand-Side HSL - DTM 1900/Touch Position -

GSM1900_chan661_amb_temp_23.9C_liq_temp_22.7C/Zoom Scan (21x21x36)/Cube 0:

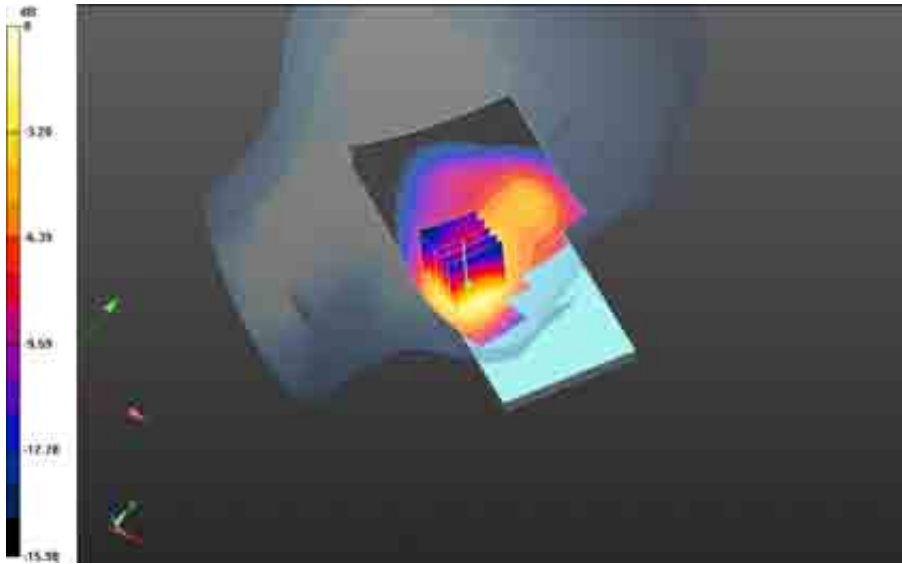
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 5.273 V/m; **Power Drift = -0.133 dB**

Averaged SAR: SAR(1g) = 0.369 W/kg; SAR(10g) = 0.228 W/kg

Maximum value of SAR (interpolated) = 0.556 W/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW



0 dB = 0.441 W/kg = -3.56 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

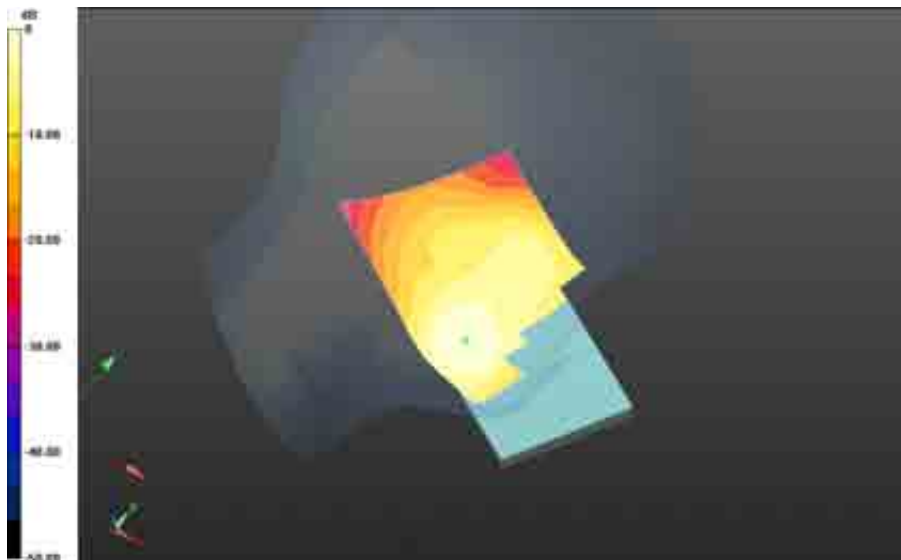
Left-Hand-Side HSL - DTM 1900/Touch Position -

DTM1900_chan661_amb_temp_23.8C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 5.170 V/m; **Power Drift = 0.101 dB**

Fast SAR: SAR(1g) = 0.344 W/kg; SAR(10g) = 0.200 W/kg

Maximum value of SAR (interpolated) = 0.424 W/kg

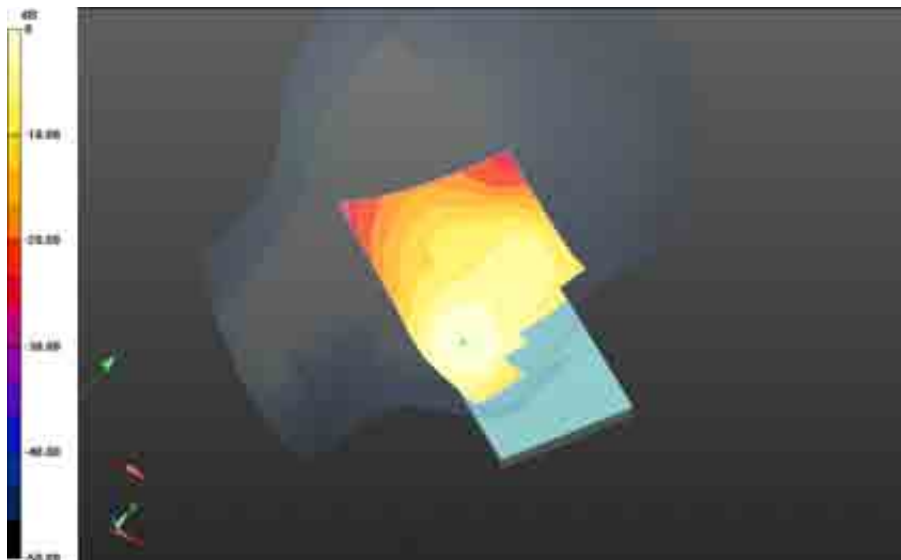


0 dB = 0.441 W/kg = -3.56 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Left-Hand-Side HSL - DTM 1900/Touch Position - DTM1900_3-
Slots_chan661_amb_temp_23.8C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 5.315 V/m; **Power Drift = 0.027 dB**

Fast SAR: SAR(1g) = 0.359 W/kg; SAR(10g) = 0.208 W/kg
Maximum value of SAR (interpolated) = 0.443 W/kg

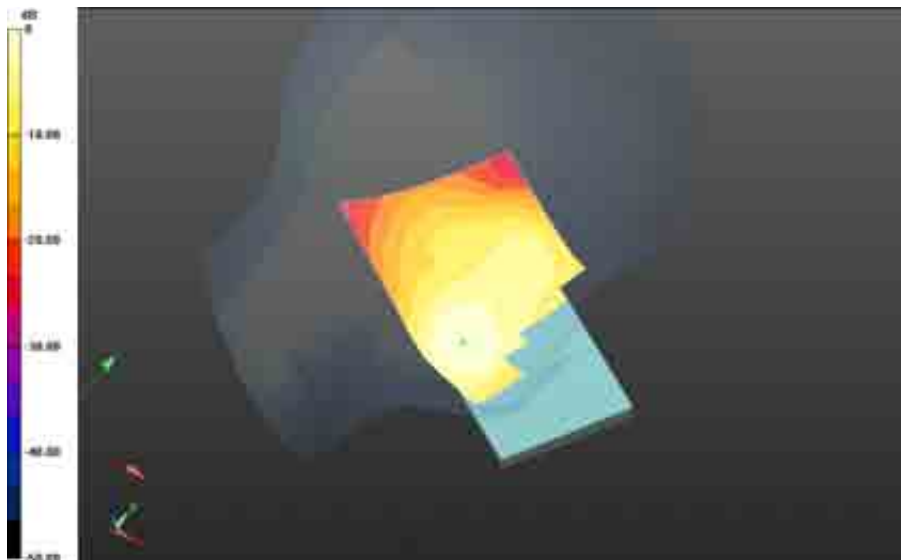


0 dB = 0.424 W/kg = -3.73 dBW/kg

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Left-Hand-Side HSL - DTM 1900/Touch Position - EDGE1900_4-Slots_chan661_amb_temp_23.8C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Reference Value = 5.165 V/m; **Power Drift = -0.027 dB**

Fast SAR: SAR(1g) = 0.335 W/kg; SAR(10g) = 0.194 W/kg
Maximum value of SAR (interpolated) = 0.413 W/kg



0 dB = 0.443 W/kg = -3.54 dBW/kg

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Left-Hand-Side HSL - DTM 1900/Tilt Position -

GSM1900_chan661_amb_temp_23.8C_liq_temp_22.5C/Area Scan (61x101x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 7.484 V/m; **Power Drift = 0.019 dB**

Fast SAR: SAR(1g) = 0.0764 W/kg; SAR(10g) = 0.0445 W/kg

Maximum value of SAR (interpolated) = 0.0952 W/kg



0 dB = 0.413 W/kg = -3.84 dBW/kg

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UMTS Band II

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW	

Date: 7/5/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Right-Hand-Side HSL - UMTS II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 38.747$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9400_amb_temp_23.4C_liq_temp_21.8C/Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.911 V/m; **Power Drift = 0.025 dB**

Right-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9400_amb_temp_23.4C_liq_temp_21.8C/Zoom Scan (26x26x36)/Cube 0:

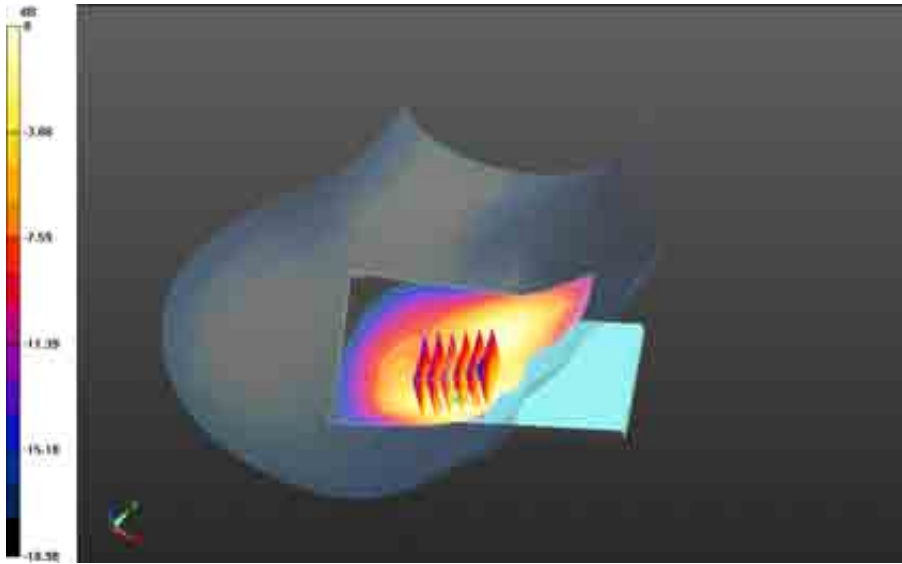
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.911 V/m; **Power Drift = 0.025 dB**

Averaged SAR: SAR(1g) = 0.340 W/kg; SAR(10g) = 0.215 W/kg

Maximum value of SAR (interpolated) = 0.511 W/kg

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0 dB = 0.397 W/kg = -4.01 dBW/kg

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Right-Hand-Side HSL - UMTS II/Tilt Position -

UMTS_II_chan9400_amb_temp_23.2C_liq_temp_21.8C/Area Scan (61x91x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.689 V/m; **Power Drift = 0.084 dB**

Fast SAR: SAR(1g) = 0.168 W/kg; SAR(10g) = 0.0937 W/kg

Maximum value of SAR (interpolated) = 0.220 W/kg



0 dB = 0.397 W/kg = -4.01 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Date: 7/5/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Left-Hand-Side HSL - UMTS II

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1880 MHz

Medium Parameters used: $f=1880$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 38.747$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (5.35,5.35,5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.9C/Area Scan (61x91x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.824 V/m; **Power Drift = 0.108 dB**

Left-Hand-Side HSL - UMTS II/Touch Position -

UMTS_II_chan9400_amb_temp_23.3C_liq_temp_21.9C/Zoom Scan (21x21x36)/Cube 0:

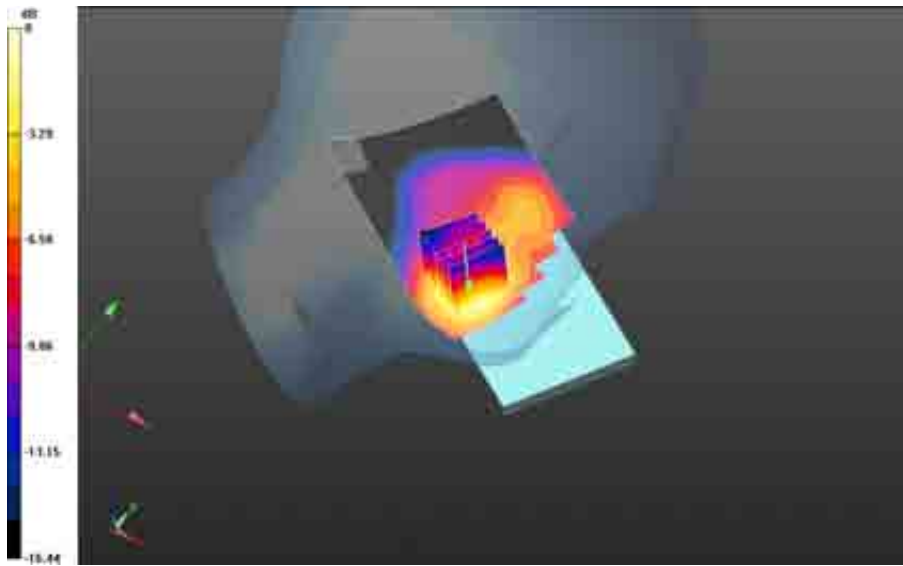
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 6.824 V/m; **Power Drift = 0.108 dB**

Averaged SAR: SAR(1g) = 0.704 W/kg; SAR(10g) = 0.432 W/kg

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

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0 dB = 0.837 W/kg = -0.77 dBW/kg

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Left-Hand-Side HSL - UMTS II/Tilt Position -

UMTS_II_chan9400_amb_temp_23.1C_liq_temp_21.9C/Area Scan (61x91x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.779 V/m; **Power Drift = -0.128 dB**

Fast SAR: SAR(1g) = 0.139 W/kg; SAR(10g) = 0.0802 W/kg

Maximum value of SAR (interpolated) = 0.177 W/kg



0 dB = 0.837 W/kg = -0.77 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW	

Test Laboratory: RIM Testing Services

SAR_UMTS_II

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 2FFFE461

Communication System: UID 0 - n/a, WCDMA FDD II; Frequency: 1852.4 MHz,

Frequency: 1907.6 MHz

Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.335 \text{ S/m}$; $\epsilon_r = 38.361$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.385 \text{ S/m}$; $\epsilon_r = 38.153$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.35, 5.35, 5.35); Calibrated: 1/10/2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0$
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.6(1115); SEMCAD X 14.6.9(7117)

Left-Hand-Side HSL - UMTS II_/Touch Position -

UMTS_II_chan9262_amb_temp_23.7C_liq_temp_22.2C/Area Scan

(61x91x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 6.899 V/m ; Power Drift = 0.15 dB

Fast SAR: SAR(1 g) = 0.535 W/kg ; SAR(10 g) = 0.310 W/kg

Maximum value of SAR (interpolated) = 0.657 W/kg

Left-Hand-Side HSL - UMTS II_/Touch Position -

UMTS_II_chan9538_amb_temp_23.4C_liq_temp_22.3C/Area Scan

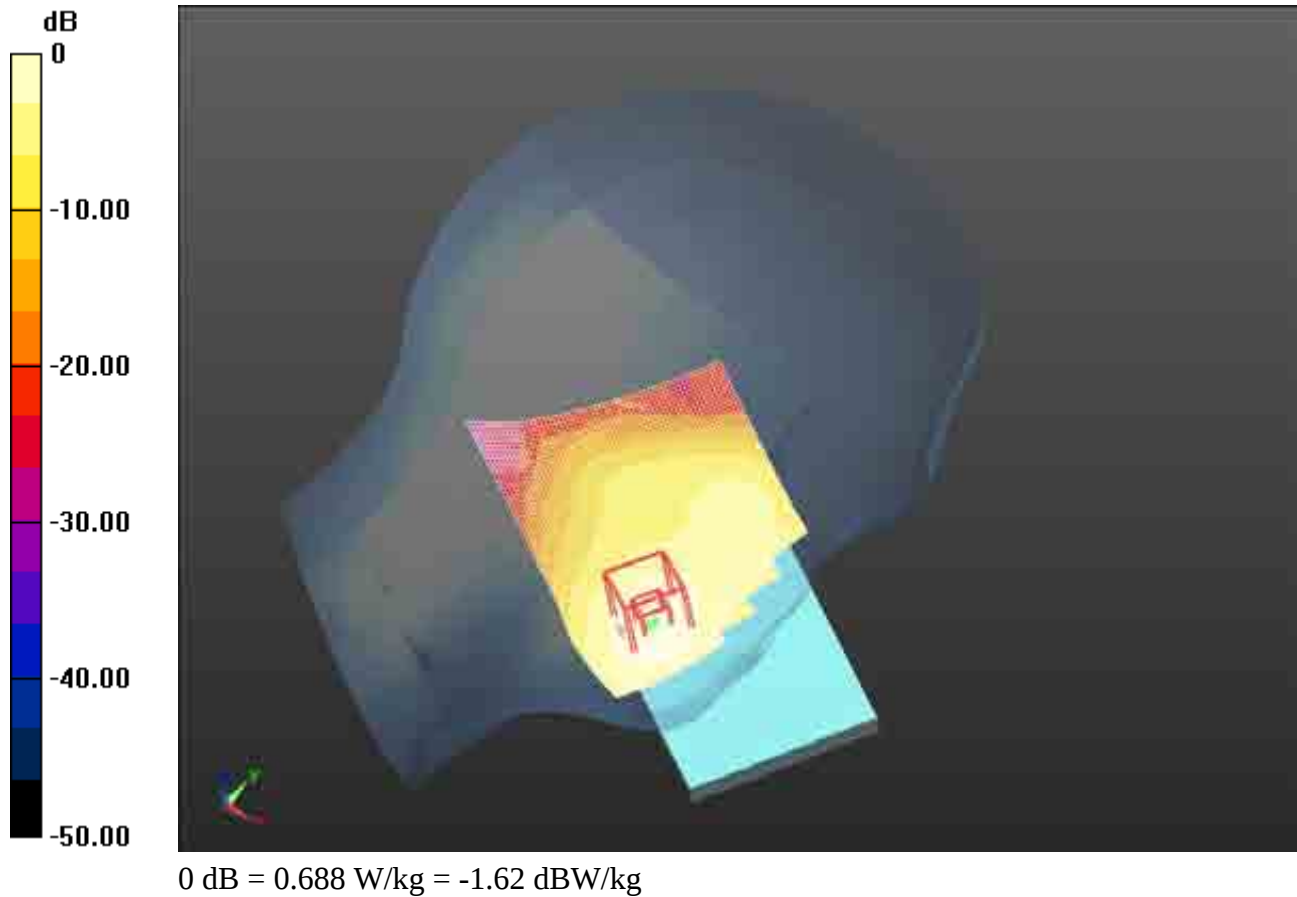
(61x91x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 6.542 V/m ; Power Drift = 0.00 dB

Fast SAR: SAR(1 g) = 0.557 W/kg ; SAR(10 g) = 0.320 W/kg

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Maximum value of SAR (interpolated) = 0.688 W/kg



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802.11b

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Date: 7/19/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2

Configuration: Right-Hand-Side HSL - 802.11b

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

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.816$ S/m; $\epsilon_r = 37.833$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11b/Touch Position -

802.11b_chan6_amb_temp_22.9C_liq_temp_22.5C/Area Scan (81x131x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Reference Value = 3.881 V/m; **Power Drift = 0.570 dB**

Right-Hand-Side HSL - 802.11b/Touch Position -

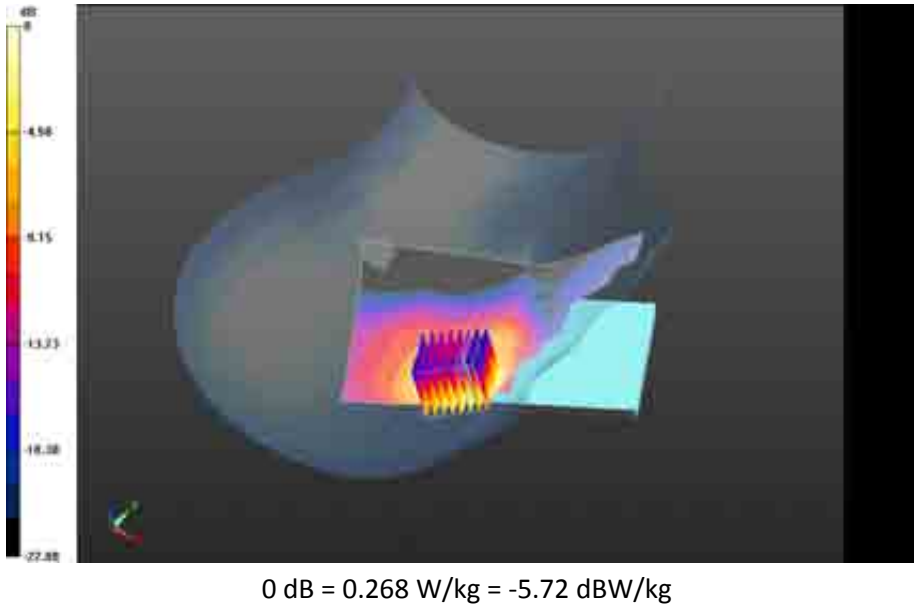
802.11b_chan6_amb_temp_22.9C_liq_temp_22.5C/Zoom Scan (36x36x36)/Cube 0:
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 1.308 V/m; **Power Drift = 0.570 dB**

Averaged SAR: SAR(1g) = 0.219 W/kg; SAR(10g) = 0.126 W/kg

Maximum value of SAR (interpolated) = 0.420 W/kg

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Right-Hand-Side HSL - 802.11b/Tilt Position -

802.11b_chan6_amb_temp_23.0C_liq_temp_22.5C/Area Scan (81x131x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 9.023 V/m; **Power Drift = 0.069 dB**

Right-Hand-Side HSL - 802.11b/Tilt Position -

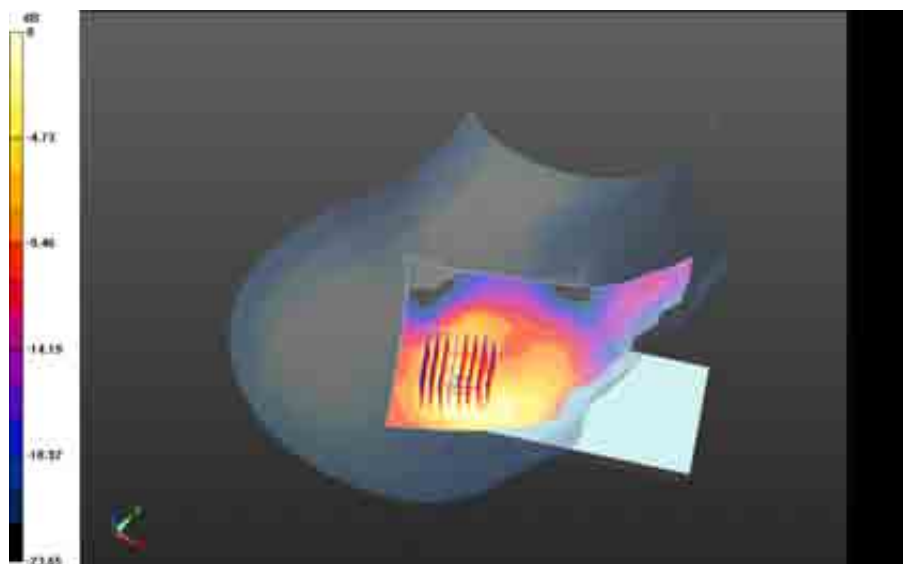
802.11b_chan6_amb_temp_23.0C_liq_temp_22.5C/Zoom Scan (36x36x36)/Cube 0:

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

Reference Value = 9.023 V/m; **Power Drift = 0.069 dB**

Averaged SAR: SAR(1g) = 0.226 W/kg; SAR(10g) = 0.123 W/kg

Maximum value of SAR (interpolated) = 0.392 W/kg



0 dB = 0.268 W/kg = -5.72 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Date: 7/19/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE4E2

Configuration: Left-Hand-Side HSL - 802.11b

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

Medium Parameters used: $f=2437$ MHz; $\sigma = 1.816$ S/m; $\epsilon_r = 37.833$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - 802.11b/Touch Position -

802.11b_chan6_amb_temp_23.0C_liq_temp_22.4C/Area Scan (81x111x1): Interpolated grid:

$dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 4.149 V/m; **Power Drift = -0.233 dB**

Left-Hand-Side HSL - 802.11b/Touch Position -

802.11b_chan6_amb_temp_23.0C_liq_temp_22.4C/Zoom Scan (31x31x36)/Cube 0:

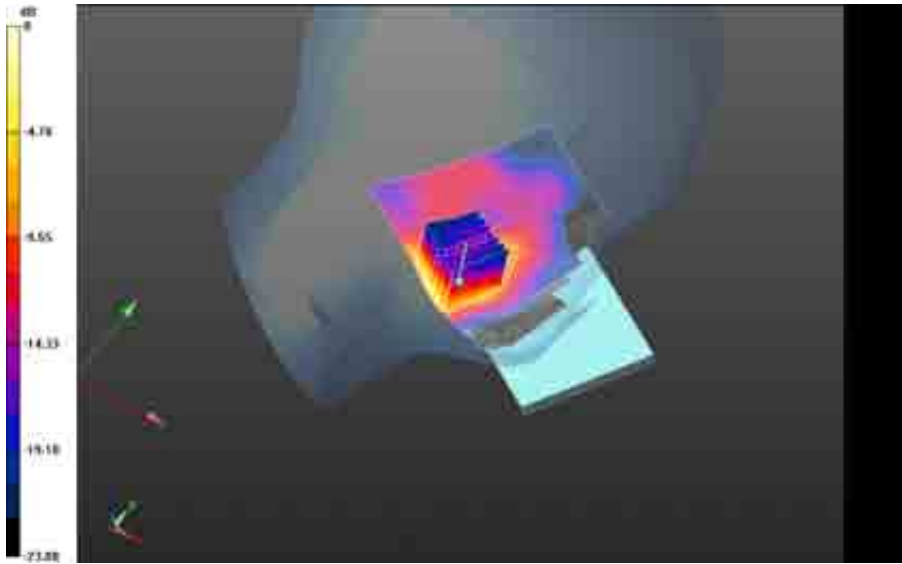
Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm, $dz=1.000$ mm

Reference Value = 4.149 V/m; **Power Drift = -0.233 dB**

Averaged SAR: SAR(1g) = 0.303 W/kg; SAR(10g) = 0.133 W/kg

Maximum value of SAR (interpolated) = 0.667 W/kg

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0 dB = 0.406 W/kg = -3.91 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Left-Hand-Side HSL - 802.11b/Tilt Position -

802.11b_chan6_amb_temp_23.0C_liq_temp_22.5C/Area Scan (81x131x1): Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 10.117 V/m; **Power Drift = -0.698 dB**

Left-Hand-Side HSL - 802.11b/Tilt Position -

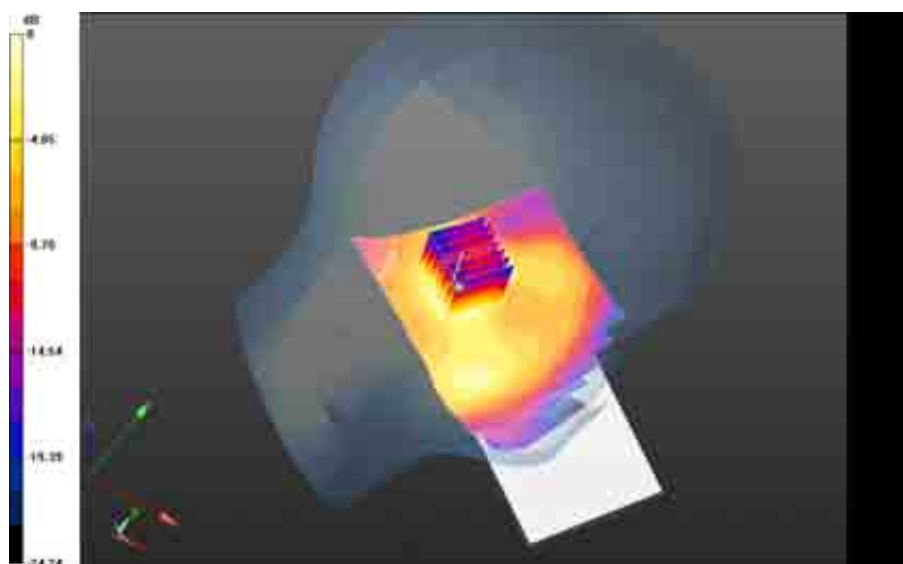
802.11b_chan6_amb_temp_23.0C_liq_temp_22.5C/Zoom Scan (31x31x36)/Cube 0:

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

Reference Value = 10.117 V/m; **Power Drift = -0.698 dB**

Averaged SAR: SAR(1g) = 0.169 W/kg; SAR(10g) = 0.0909 W/kg

Maximum value of SAR (interpolated) = 0.294 W/kg



0 dB = 0.406 W/kg = -3.91 dBW/kg

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Bluetooth

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	Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Date: 7/19/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE447

Configuration: Right-Hand-Side HSL - Bluetooth

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz

Medium Parameters used: $f=2441$ MHz; $\sigma = 1.821$ S/m; $\epsilon_r = 37.819$; $\rho = 1.000$ g/cm³

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - Bluetooth/Touch Position -

Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.4C/Area Scan (81x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0109 W/kg

Right-Hand-Side HSL - Bluetooth/Touch Position -

Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.4C/Zoom Scan (41x41x36)/Cube 0:

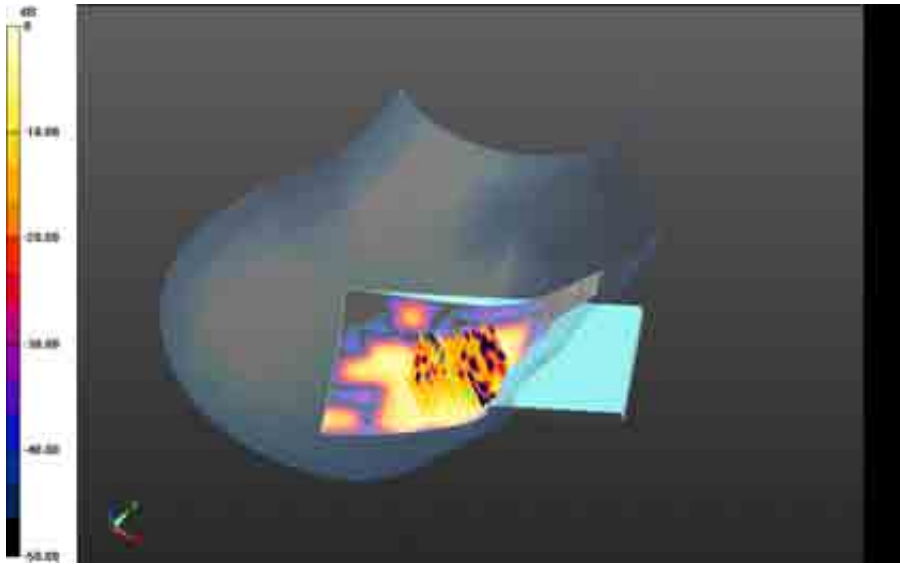
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 2.084 V/m; **Power Drift = 0.372 dB**

Averaged SAR: SAR(1g) = 0.00725 W/kg; SAR(10g) = 0.00354 W/kg

Maximum value of SAR (interpolated) = 0.0295 W/kg

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0 dB = 0.00862 W/kg = -20.64 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Right-Hand-Side HSL - Bluetooth/Tilt Position -

Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.4C/Area Scan (81x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.00689 W/kg

Right-Hand-Side HSL - Bluetooth/Tilt Position -

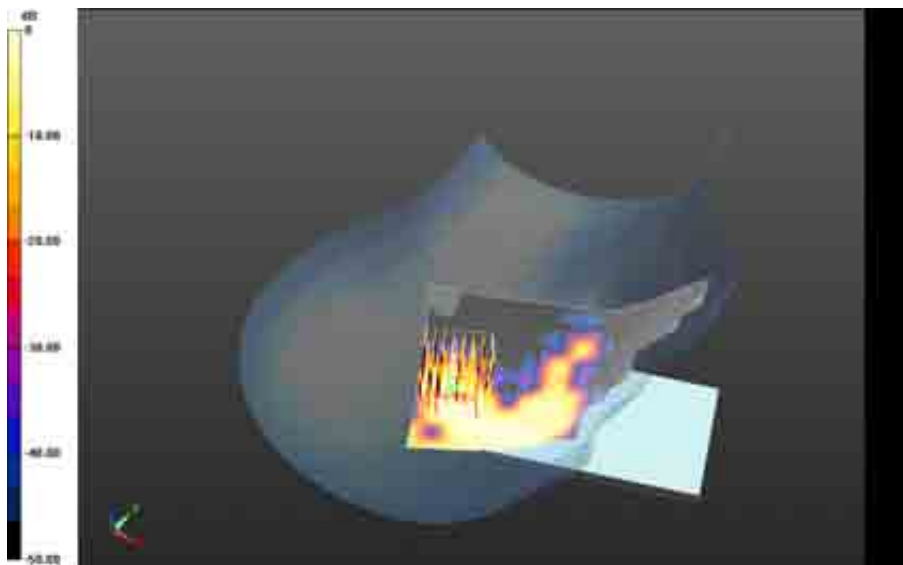
Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.4C/Zoom Scan (36x36x36)/Cube 0:

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

Reference Value = 1.361 V/m; **Power Drift = -0.089 dB**

Averaged SAR: SAR(1g) = 0.00228 W/kg; SAR(10g) = 0.000887 W/kg

Maximum value of SAR (interpolated) = 0.00832 W/kg



0 dB = 0.00862 W/kg = -20.64 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Date: 7/19/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE447

Configuration: Left-Hand-Side HSL - Bluetooth

Communication System: Bluetooth; Communication System Band: Exported from older format (data unavailable - please correct).; Frequency: 2441 MHz

Medium Parameters used: $f=2441$ MHz; $\sigma = 1.821$ S/m; $\epsilon_r = 37.819$; $\rho = 1.000$ g/cm³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF: (4.65,4.65,4.65); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - Bluetooth/Touch Position -

Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.4C/Area Scan (81x111x1): Interpolated

grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0122 W/kg

Left-Hand-Side HSL - Bluetooth/Touch Position -

Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.4C/Zoom Scan (31x31x36)/Cube 0:

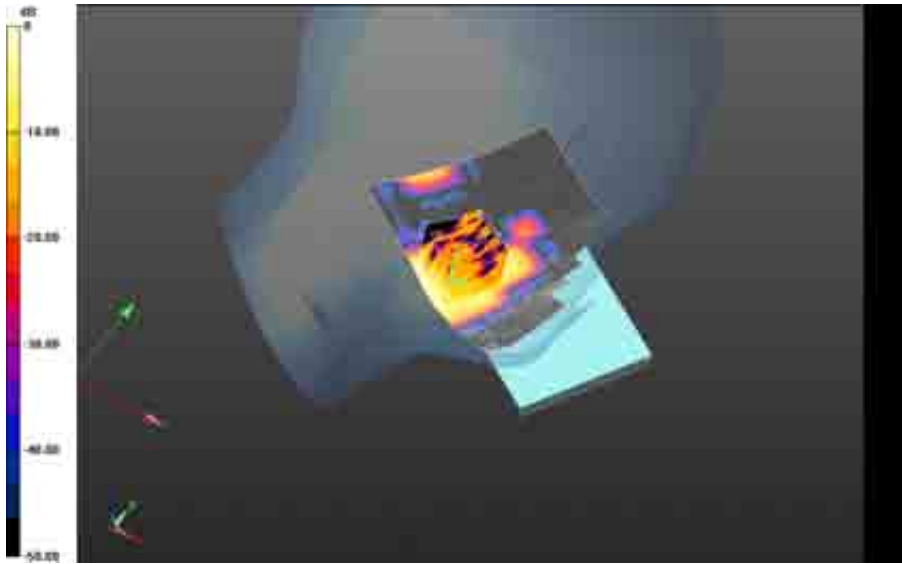
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 2.644 V/m; **Power Drift = 0.409 dB**

Averaged SAR: SAR(1g) = 0.00938 W/kg; SAR(10g) = 0.00377 W/kg

Maximum value of SAR (interpolated) = 0.0195 W/kg

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0 dB = 0.0127 W/kg = -18.96 dBW/kg

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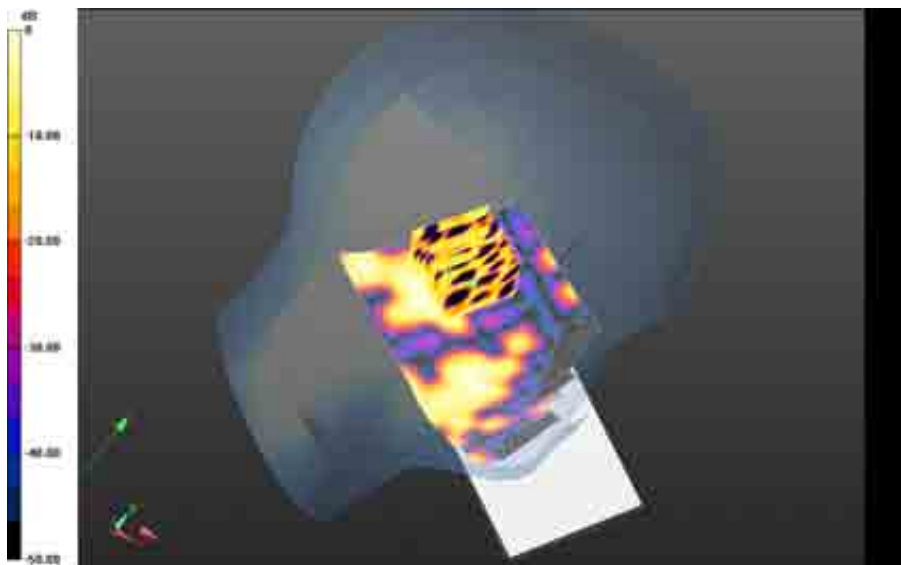
Left-Hand-Side HSL - Bluetooth/Tilt Position -

Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.4C/Area Scan (81x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.00484 W/kg

Left-Hand-Side HSL - Bluetooth/Tilt Position -

Bluetooth_chan39_amb_temp_23.5C_liq_temp_22.4C/Zoom Scan (41x36x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm
Reference Value = 0.914 V/m; **Power Drift = -0.035 dB**

Averaged SAR: SAR(1g) = 0.00190 W/kg; SAR(10g) = 0.000880 W/kg
Maximum value of SAR (interpolated) = 0.00377 W/kg



0 dB = 0.0127 W/kg = -18.96 dBW/kg

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802.11a

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW

Date: 7/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Right-Hand-Side HSL - 802.11a 5200 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5180 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1
Medium Parameters used: $f=5180$ MHz; $\sigma = 4.621$ S/m; $\epsilon_r = 35.239$; $\rho = 1.000$ g/cm³
Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (5.13,5.13,5.13); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan36_low_band_amb_temp_24.2C_liq_temp_21.7C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.192 W/kg

Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan36_low_band_amb_temp_24.2C_liq_temp_21.7C/Zoom Scan (41x41x61)/Cube

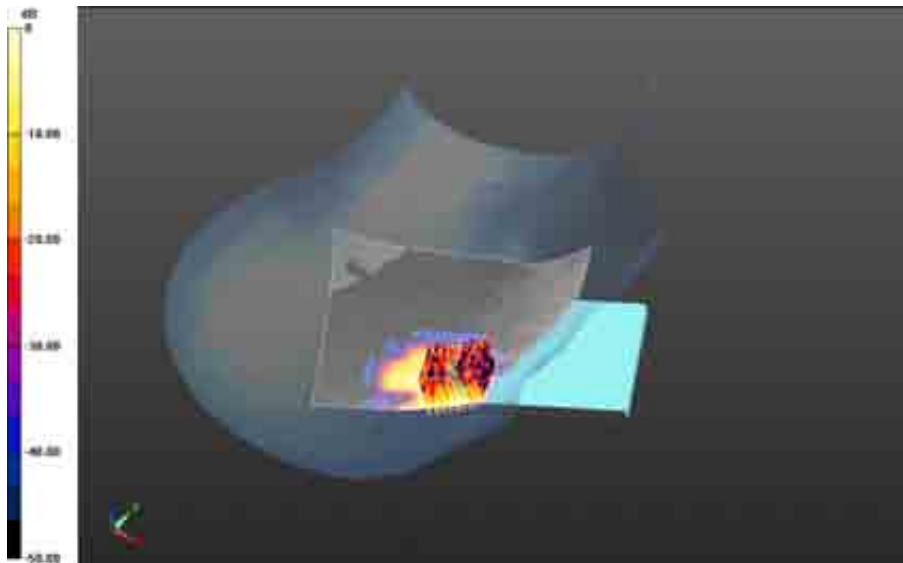
0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 6.578 V/m; Power Drift = -0.069 dB

Averaged SAR: SAR(1g) = 0.0926 W/kg; SAR(10g) = 0.0332 W/kg

Maximum value of SAR (interpolated) = 0.531 W/kg

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0 dB = 0.181 W/kg = -7.42 dBW/kg

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Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan52_low_band_amb_temp_23.4C_liq_temp_21.7C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.260 W/kg

Right-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

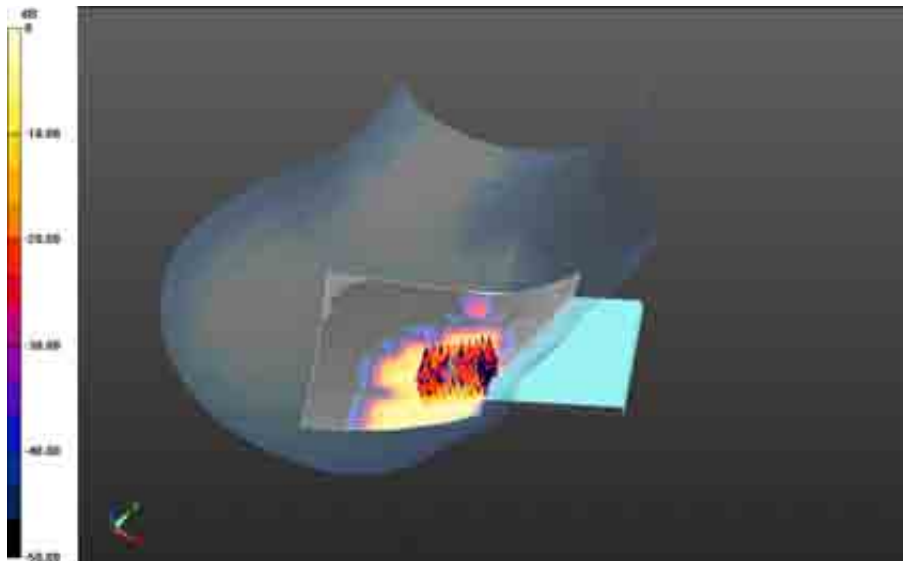
802.11a_chan52_low_band_amb_temp_23.4C_liq_temp_21.7C/Zoom Scan (41x46x61)/Cube

0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 7.517 V/m; Power Drift = -0.079 dB

Averaged SAR: SAR(1g) = 0.123 W/kg; SAR(10g) = 0.0445 W/kg

Maximum value of SAR (interpolated) = 0.417 W/kg



0 dB = 0.181 W/kg = -7.42 dBW/kg

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Right-Hand-Side HSL - 802.11a 5200 MHz/Tilt Position -

802.11a_chan52_low_band_amb_temp_23.2C_liq_temp_22.2C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.0638 W/kg

Right-Hand-Side HSL - 802.11a 5200 MHz/Tilt Position -

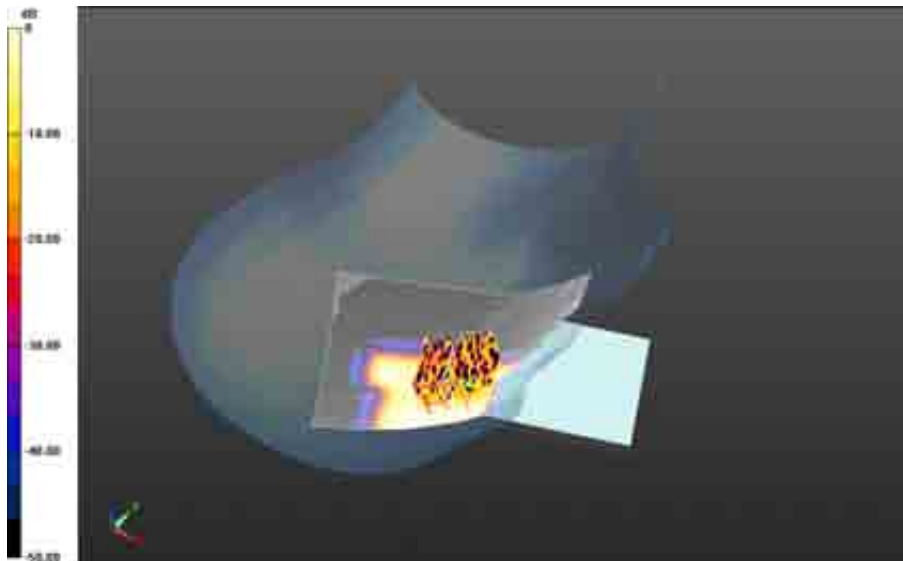
802.11a_chan52_low_band_amb_temp_23.2C_liq_temp_22.2C/Zoom Scan (51x46x61)/Cube

0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 2.150 V/m; Power Drift = 0.438 dB

Averaged SAR: SAR(1g) = 0.0175 W/kg; SAR(10g) = 0.00681 W/kg

Maximum value of SAR (interpolated) = 0.0874 W/kg



0 dB = 0.238 W/kg = -6.23 dBW/kg

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Date: 7/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Right-Hand-Side HSL - 802.11a 5500 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5520 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1
Medium Parameters used: $f=5520$ MHz; $\sigma = 4.982$ S/m; $\epsilon_r = 34.504$; $\rho = 1.000$ g/cm³
Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.79,4.79,4.79); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -

802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_21.7C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.294 W/kg

Right-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -

802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_21.7C/Zoom Scan

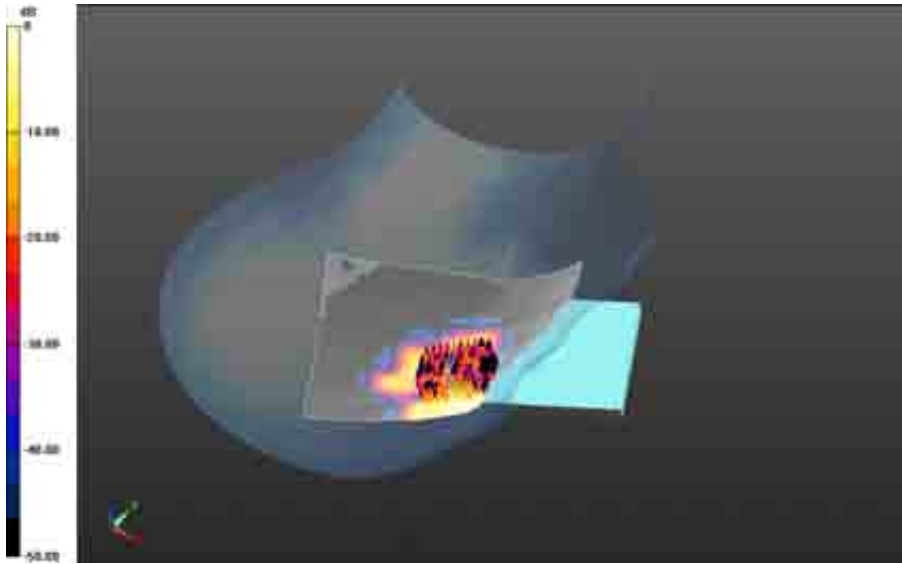
(41x46x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 7.094 V/m; Power Drift = -0.162 dB

Averaged SAR: SAR(1g) = 0.0997 W/kg; SAR(10g) = 0.0335 W/kg

Maximum value of SAR (interpolated) = 0.368 W/kg

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0 dB = 0.198 W/kg = -7.03 dBW/kg

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Date: 7/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Right-Hand-Side HSL - 802.11a 5800 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5765 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1
Medium Parameters used: $f=5765$ MHz; $\sigma = 5.290$ S/m; $\epsilon_r = 34.219$; $\rho = 1.000$ g/cm³
Phantom section: Right Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.61,4.61,4.61); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Right-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -

802.11a_chan153_Upper_bandII_amb_temp_23.1C_liq_temp_22.1C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.284 W/kg

Right-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -

802.11a_chan153_Upper_bandII_amb_temp_23.1C_liq_temp_22.1C/Zoom Scan

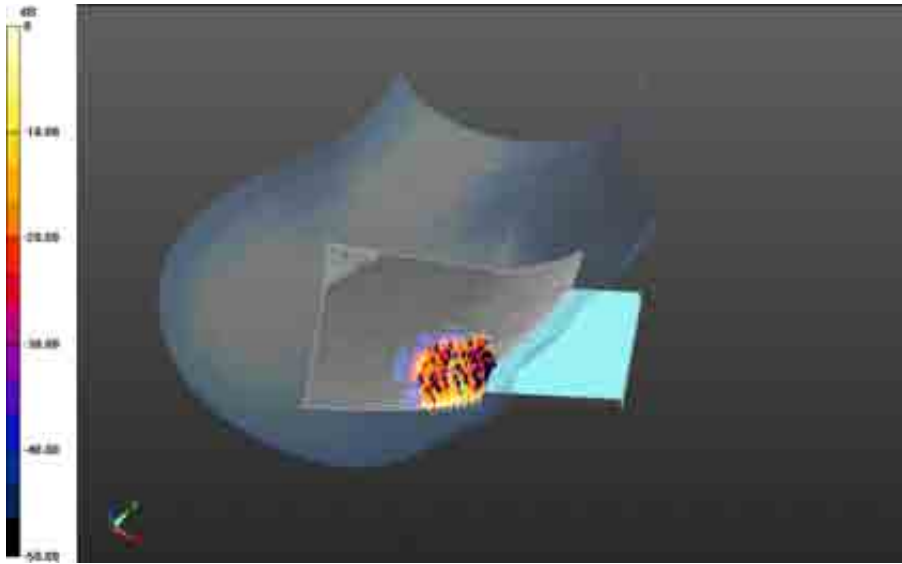
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 4.388 V/m; Power Drift = -0.044 dB

Averaged SAR: SAR(1g) = 0.0426 W/kg; SAR(10g) = 0.0124 W/kg

Maximum value of SAR (interpolated) = 0.186 W/kg

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0 dB = 0.100 W/kg = -10.00 dBW/kg

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Date: 7/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Left-Hand-Side HSL - 802.11a 5200 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5180 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1
Medium Parameters used: $f=5180$ MHz; $\sigma = 4.621$ S/m; $\epsilon_r = 35.239$; $\rho = 1.000$ g/cm³
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (5.13,5.13,5.13); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan36_low_band_amb_temp_222.8C_liq_temp_22.1C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.285 W/kg

Left-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan36_low_band_amb_temp_222.8C_liq_temp_22.1C/Zoom Scan (36x36x61)/Cube

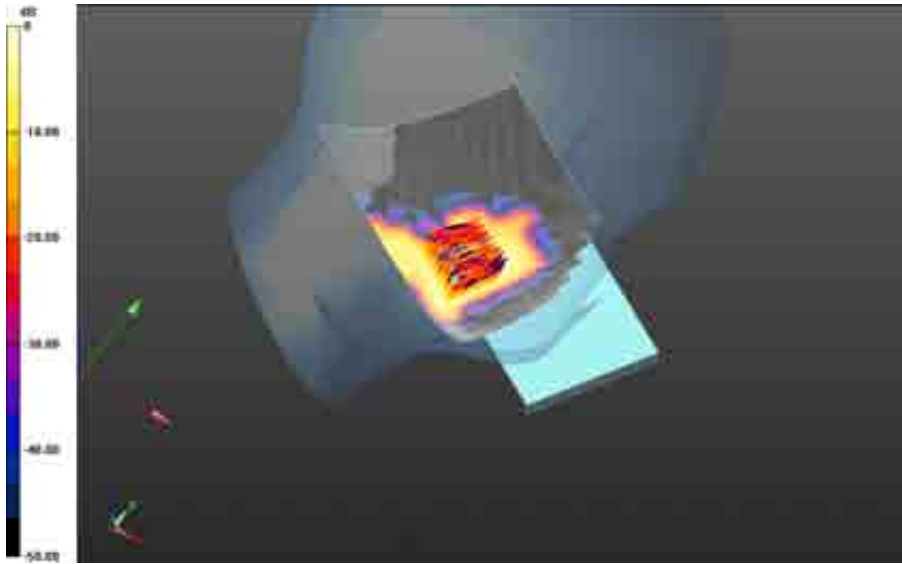
0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 8.139 V/m; Power Drift = 0.116 dB

Averaged SAR: SAR(1g) = 0.140 W/kg; SAR(10g) = 0.0487 W/kg

Maximum value of SAR (interpolated) = 0.525 W/kg

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0 dB = 0.255 W/kg = -5.93 dBW/kg

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Left-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

802.11a_chan52_low_band_amb_temp_23.6C_liq_temp_22.2C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.472 W/kg

Left-Hand-Side HSL - 802.11a 5200 MHz/Touch Position -

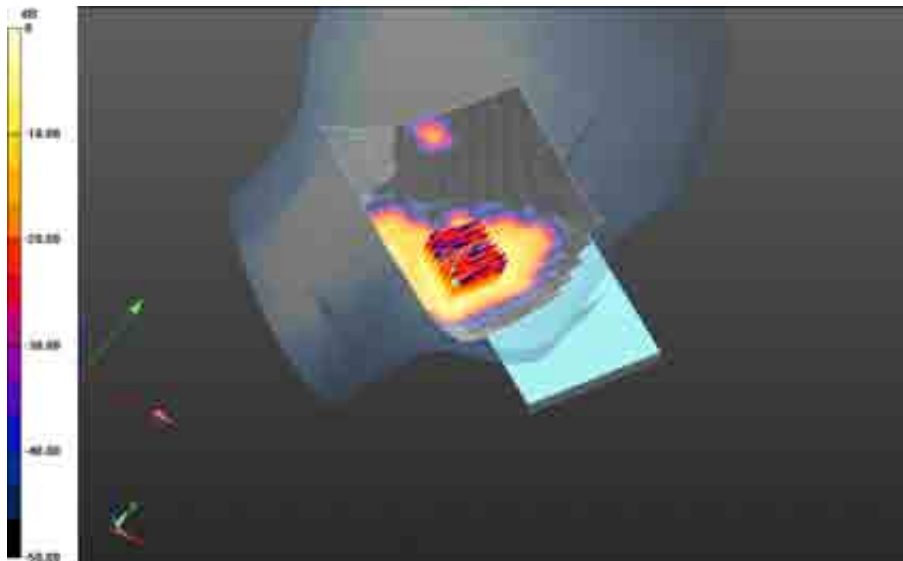
802.11a_chan52_low_band_amb_temp_23.6C_liq_temp_22.2C/Zoom Scan (36x36x61)/Cube

0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 10.156 V/m; Power Drift = 0.043 dB

Averaged SAR: SAR(1g) = 0.234 W/kg; SAR(10g) = 0.0784 W/kg

Maximum value of SAR (interpolated) = 0.965 W/kg



0 dB = 0.255 W/kg = -5.93 dBW/kg

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Date: 7/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Left-Hand-Side HSL - 802.11a 5500 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5520 MHz, Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1
Medium Parameters used: $f=5520$ MHz; $\sigma = 4.982$ S/m; $\epsilon_r = 34.504$; $\rho = 1.000$ g/cm³
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.79,4.79,4.79); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -

802.11a_chan104_Upper_bandI_amb_temp_22.9C_liq_temp_22.1C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.632 W/kg

Left-Hand-Side HSL - 802.11a 5500 MHz/Touch Position -

802.11a_chan104_Upper_bandI_amb_temp_22.9C_liq_temp_22.1C/Zoom Scan

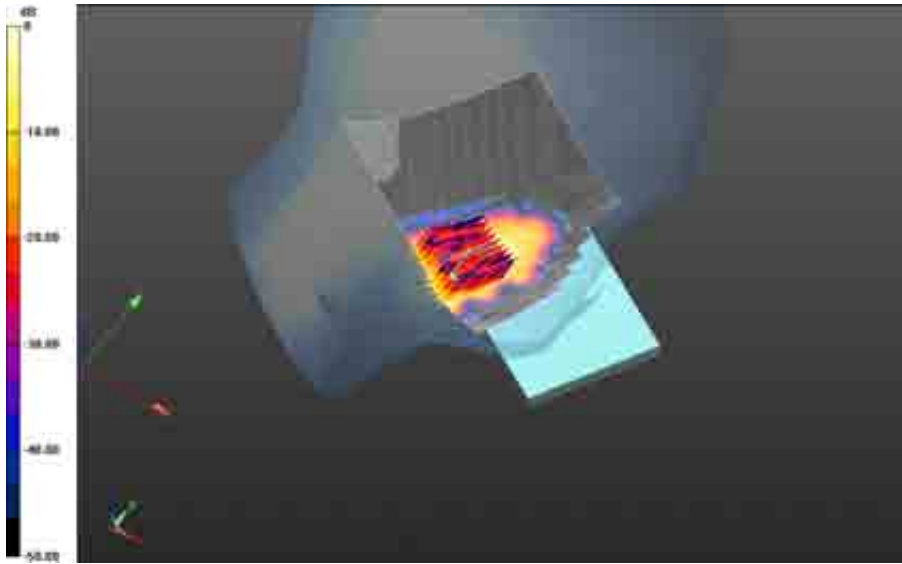
(41x41x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 11.385 V/m; Power Drift = 0.020 dB

Averaged SAR: SAR(1g) = 0.281 W/kg; SAR(10g) = 0.0864 W/kg

Maximum value of SAR (interpolated) = 1.15 W/kg

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0 dB = 0.557 W/kg = -2.54 dBW/kg

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Left-Hand-Side HSL - 802.11a 5500 MHz/Tilt Position -

802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_22.5C/Area Scan (101x151x1):

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

Maximum value of SAR (interpolated) = 0.0813 W/kg

Left-Hand-Side HSL - 802.11a 5500 MHz/Tilt Position -

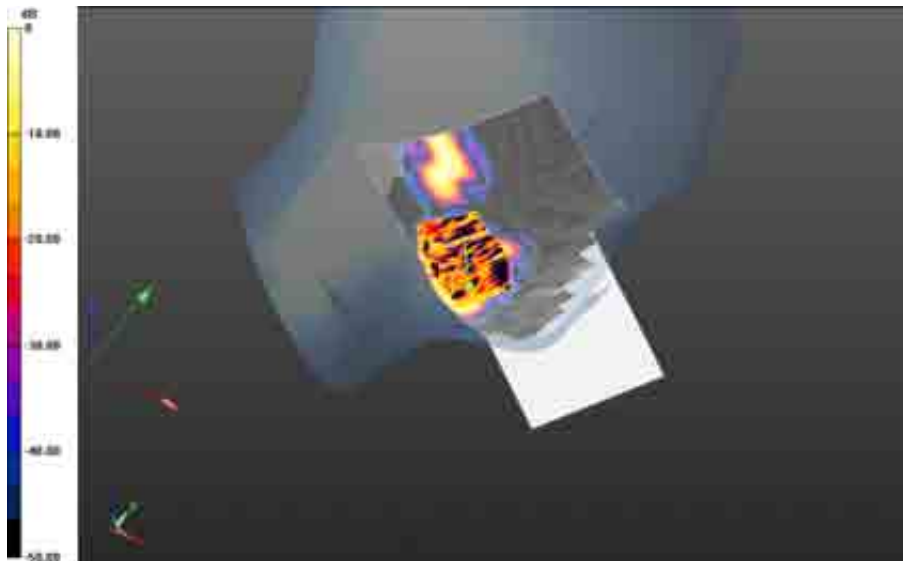
802.11a_chan104_Upper_bandI_amb_temp_23.4C_liq_temp_22.5C/Zoom Scan

(41x46x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 1.584 V/m; Power Drift = -0.167 dB

Averaged SAR: SAR(1g) = 0.0329 W/kg; SAR(10g) = 0.0111 W/kg

Maximum value of SAR (interpolated) = 0.189 W/kg



0 dB = 0.557 W/kg = -2.54 dBW/kg

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Author Data Andrew Becker	Dates of Test July 02 –August 15, 2013	Test Report No RTS-6046-1308-34 Rev 3	FCC ID: L6ARFY110LW	IC 2503A-RFY110LW	

Date: 7/22/2013

Test Lab: RIM Testing Services

DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 2FFFE461

Configuration: Left-Hand-Side HSL - 802.11a 5800 MHz

Communication System: 802.11a; Communication System Band: Low and Mid Bands; Frequency: 5745 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005; Duty Cycle: 1:1
Medium Parameters used: $f=5745$ MHz; $\sigma = 5.303$ S/m; $\epsilon_r = 34.341$; $\rho = 1.000$ g/cm³
Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF: (4.61,4.61,4.61); Calibrated: 1/15/2013;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

Left-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -

802.11a_chan149_Upper_bandII_amb_temp_22.9C_liq_temp_22.5C/Area Scan (101x141x1):

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

Maximum value of SAR (interpolated) = 0.274 W/kg

Left-Hand-Side HSL - 802.11a 5800 MHz/Touch Position -

802.11a_chan149_Upper_bandII_amb_temp_22.9C_liq_temp_22.5C/Zoom Scan

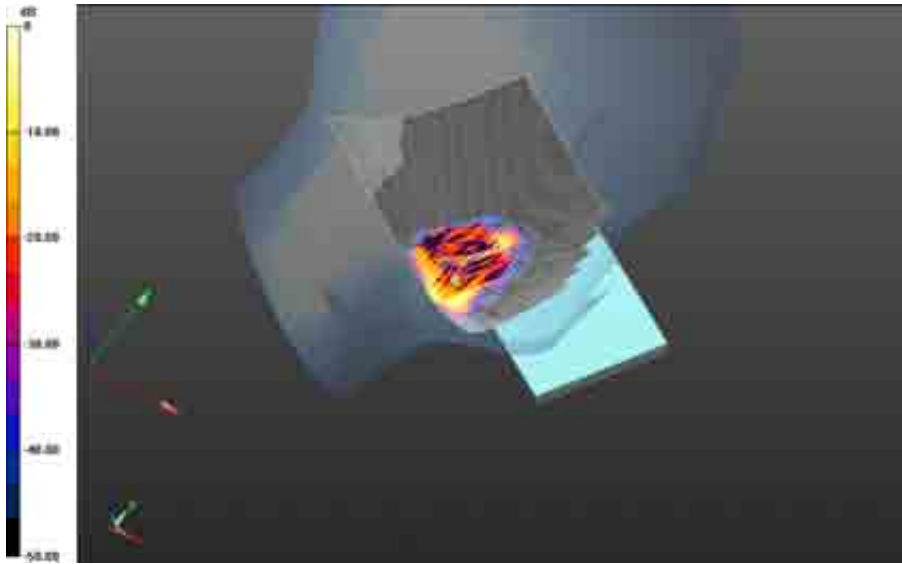
(41x36x61)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 7.005 V/m; Power Drift = 0.309 dB

Averaged SAR: SAR(1g) = 0.120 W/kg; SAR(10g) = 0.0307 W/kg

Maximum value of SAR (interpolated) = 0.462 W/kg

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0 dB = 0.258 W/kg = -5.88 dBW/kg