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

## APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOTSPOT CONFIGURATION

|                                                                                  |                                                                                               |                                                 |                               |                             |
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# GSM/GPRS 850

|                                                                                   |                                                                                               |                                                 |                               |                             |
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Date: 7/15/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - GPRS 850**

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

Medium Parameters used:  $f=836.8$  MHz;  $\sigma = 0.970$  S/m;  $\epsilon_r = 53.234$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - GPRS 850/10mm Device Back -**

**GSM850\_chan190\_amb\_temp\_22.8C\_liq\_temp\_21.1C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 25.146 V/m; **Power Drift = 0.042 dB**

**Fast SAR: SAR(1g) = 0.526 W/kg; SAR(10g) = 0.372 W/kg**

Maximum value of SAR (interpolated) = 0.595 W/kg

#### **Mobile Hot Spot MSL - GPRS 850/10mm Device Back -**

**GSM850\_chan190\_amb\_temp\_22.8C\_liq\_temp\_21.1C/Zoom Scan (21x21x36)/Cube 0:**

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

Reference Value = 25.146 V/m; **Power Drift = 0.042 dB**

**Averaged SAR: SAR(1g) = 0.545 W/kg; SAR(10g) = 0.417 W/kg**

Maximum value of SAR (interpolated) = 0.676 W/kg

#### **Mobile Hot Spot MSL - GPRS 850/10mm Device Back -**

**GSM850\_chan190\_amb\_temp\_22.8C\_liq\_temp\_21.1C/Zoom Scan 2 (36x46x36)/Cube 0:**

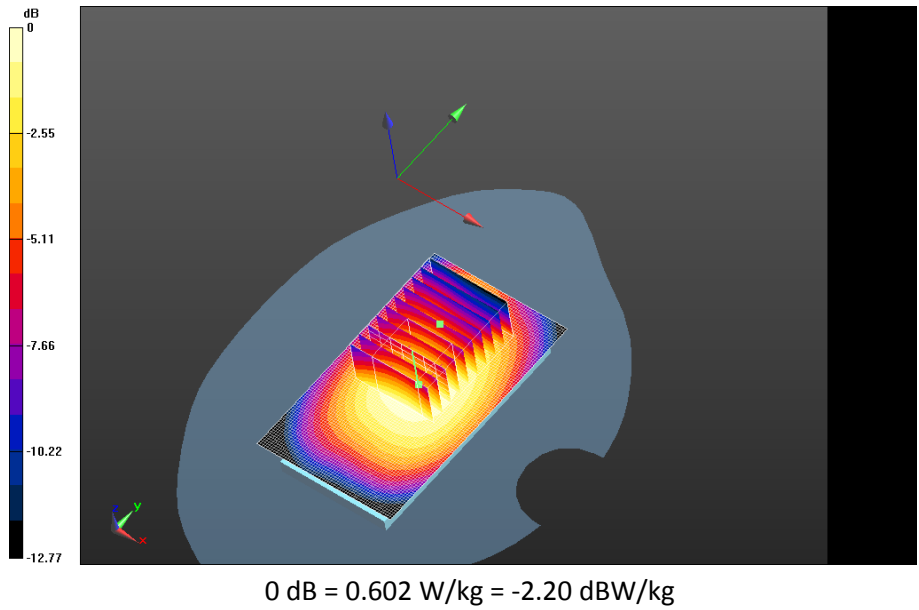
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 25.146 V/m; **Power Drift = 0.044 dB**

**Averaged SAR: SAR(1g) = 0.549 W/kg; SAR(10g) = 0.420 W/kg**

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

|                                                                                   |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - GPRS 850/10mm Device Back -**

**GPRS850\_chan190\_amb\_temp\_22.8C\_liq\_temp\_21.1C/Area Scan (61x101x1):** Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 27.593 V/m; **Power Drift = -0.086 dB**

**Fast SAR: SAR(1g) = 0.615 W/kg; SAR(10g) = 0.432 W/kg**

Maximum value of SAR (interpolated) = 0.695 W/kg

**Mobile Hot Spot MSL - GPRS 850/10mm Device Back -**

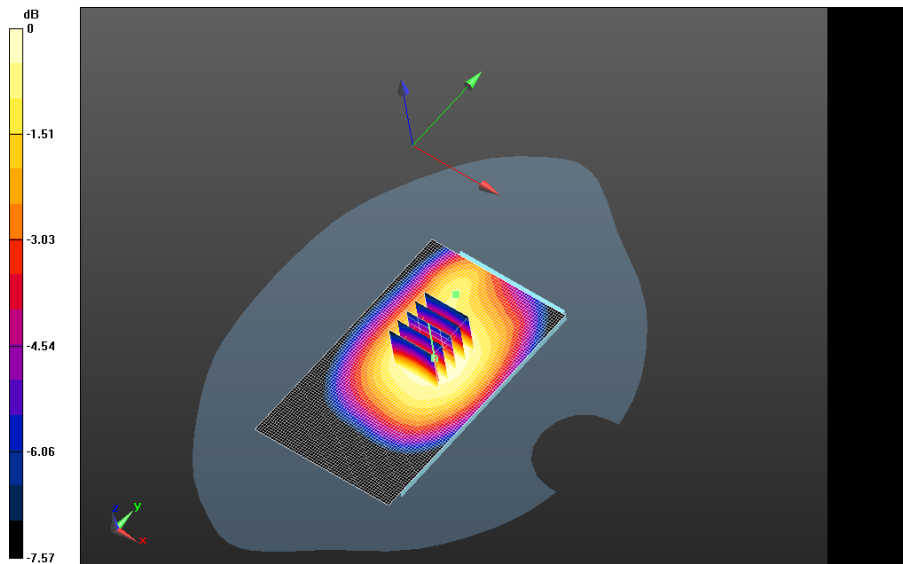
**GPRS850\_chan190\_amb\_temp\_22.8C\_liq\_temp\_21.1C/Zoom Scan (21x21x36)/Cube 0:**

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

Reference Value = 27.593 V/m; **Power Drift = -0.086 dB**

**Averaged SAR: SAR(1g) = 0.622 W/kg; SAR(10g) = 0.478 W/kg**

Maximum value of SAR (interpolated) = 0.771 W/kg

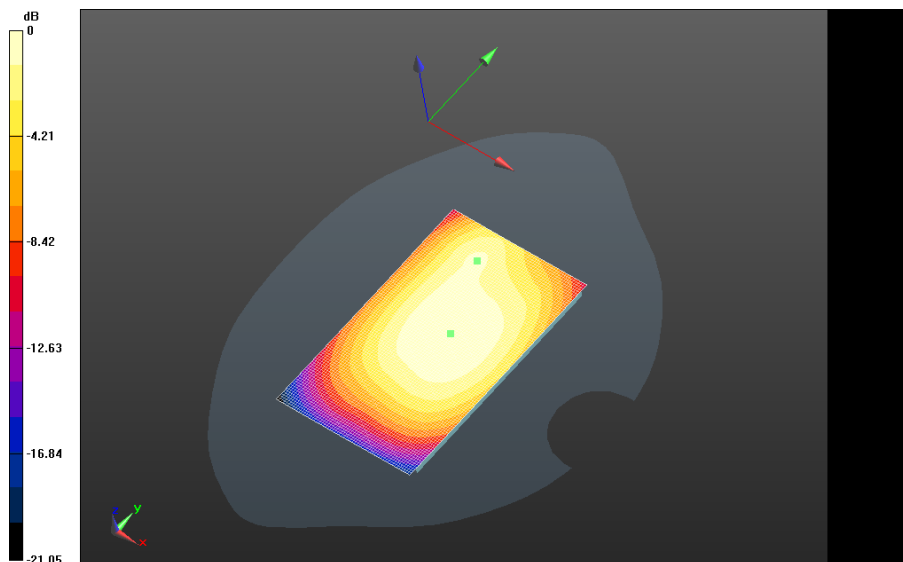


0 dB = 0.602 W/kg = -2.20 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850\_3-Slots\_chan190\_amb\_temp\_22.8C\_liq\_temp\_21.1C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 27.160 V/m; **Power Drift = -0.044 dB**

**Fast SAR: SAR(1g) = 0.593 W/kg; SAR(10g) = 0.420 W/kg**  
Maximum value of SAR (interpolated) = 0.668 W/kg

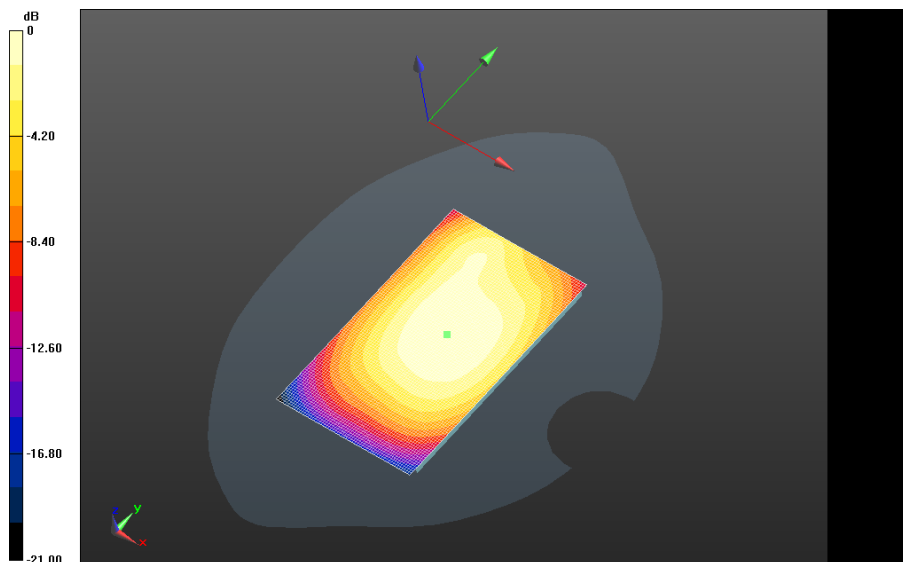


0 dB = 0.681 W/kg = -1.67 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850\_4-Slots\_chan190\_amb\_temp\_22.8C\_liq\_temp\_21.1C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 26.160 V/m; **Power Drift = -0.173 dB**

**Fast SAR: SAR(1g) = 0.552 W/kg; SAR(10g) = 0.390 W/kg**  
Maximum value of SAR (interpolated) = 0.622 W/kg

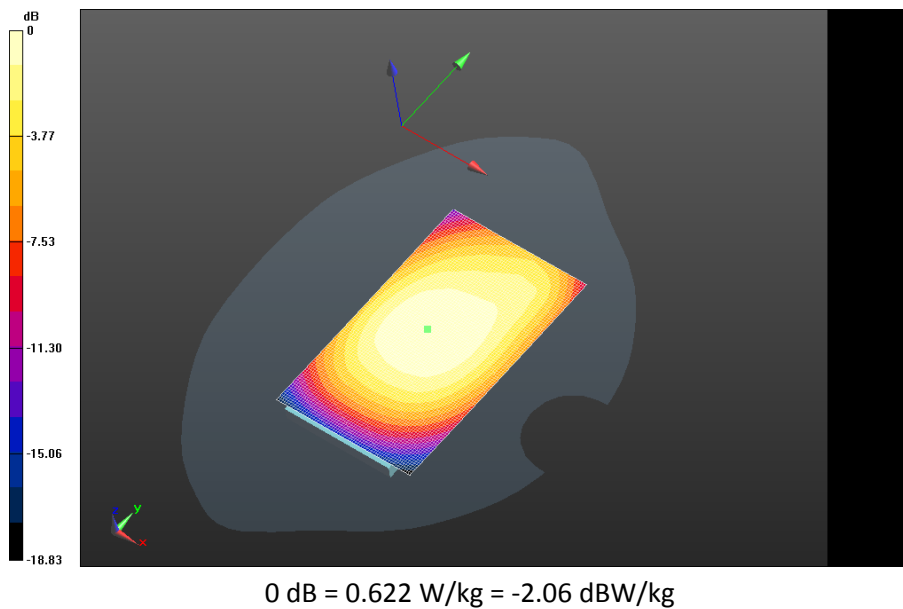


0 dB = 0.668 W/kg = -1.75 dBW/kg

|                                                                                   |                                                                                               |                                                 |                               |                             |                      |
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**Mobile Hot Spot MSL - GPRS 850/10mm Device Front -**  
**GPRS850\_chan190\_amb\_temp\_23.6C\_liq\_temp\_22.5C/Area Scan (61x101x1): Interpolated**  
grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 26.348 V/m; **Power Drift = -0.146 dB**

**Fast SAR: SAR(1g) = 0.566 W/kg; SAR(10g) = 0.401 W/kg**  
Maximum value of SAR (interpolated) = 0.637 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - GPRS 850/10mm Device Left -**

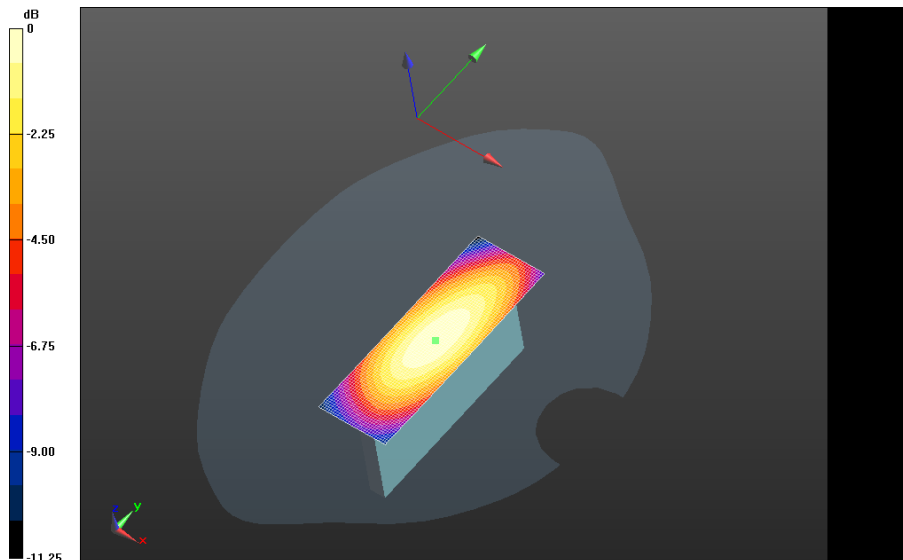
**GPRS850\_chan190\_amb\_temp\_22.9C\_liq\_temp\_21.9C/Area Scan (31x91x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 24.200 V/m; **Power Drift = -1.04e-005 dB**

**Fast SAR: SAR(1g) = 0.463 W/kg; SAR(10g) = 0.313 W/kg**

Maximum value of SAR (interpolated) = 0.526 W/kg

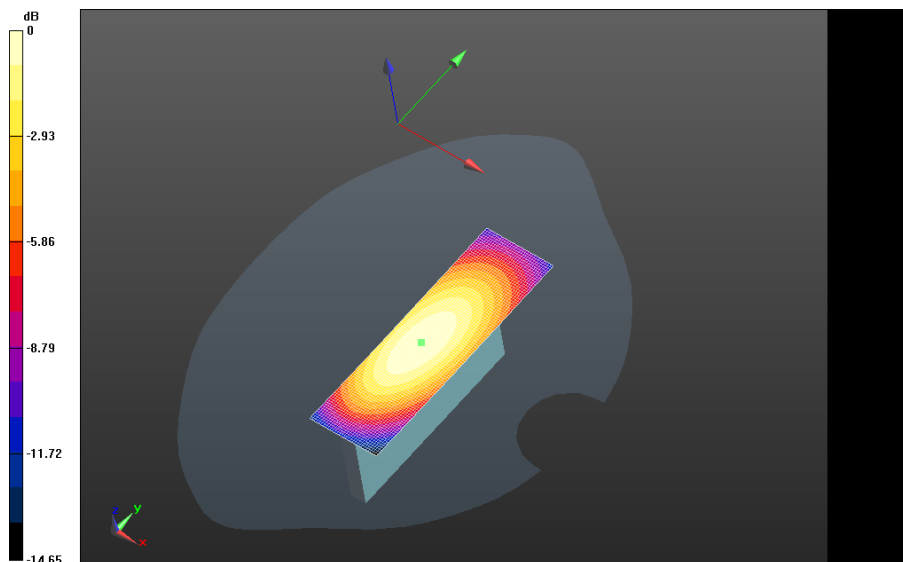


0 dB = 0.637 W/kg = -1.96 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - GPRS 850/10mm Device Right -**  
**GPRS850\_chan190\_amb\_temp\_22.8C\_liq\_temp\_21.1C/Area Scan (31x101x1): Interpolated**  
grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 22.776 V/m; **Power Drift = 0.00474 dB**

**Fast SAR: SAR(1g) = 0.416 W/kg; SAR(10g) = 0.281 W/kg**  
Maximum value of SAR (interpolated) = 0.476 W/kg



0 dB = 0.526 W/kg = -2.79 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - GPRS 850/10mm Device Bottom -**

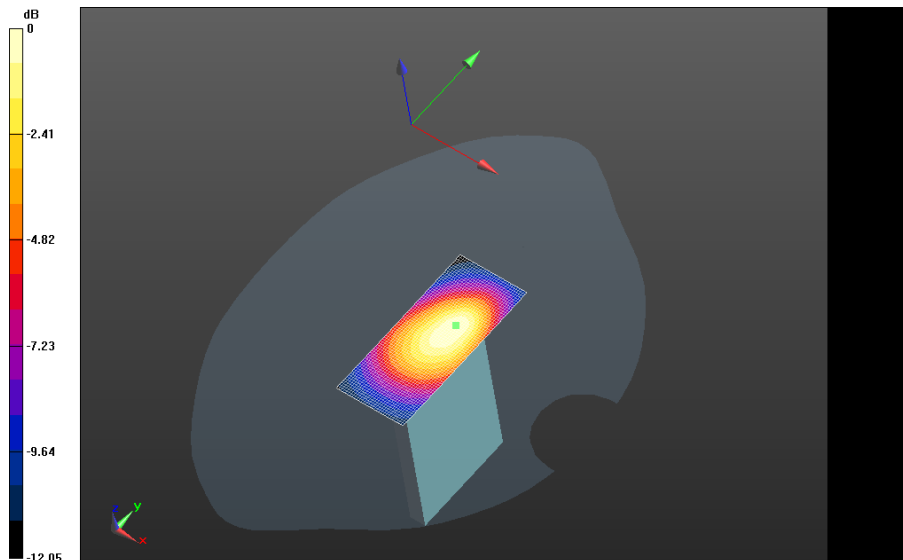
**GPRS850\_chan190\_amb\_temp\_22.8C\_liq\_temp\_21.1C/Area Scan (31x71x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 13.794 V/m; **Power Drift = -0.043 dB**

**Fast SAR: SAR(1g) = 0.175 W/kg; SAR(10g) = 0.111 W/kg**

Maximum value of SAR (interpolated) = 0.210 W/kg



0 dB = 0.476 W/kg = -3.22 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: Mobile Hot Spot MSL - 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;  $\sigma = 0.970$  S/m;  $\epsilon_r = 53.238$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS\_band**

**V\_chan4182\_amb\_temp\_23.5C\_liq\_temp\_21.8C/Area Scan (61x101x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 24.132 V/m; **Power Drift = -0.020 dB**

#### **Mobile Hot Spot MSL - UMTS band V/10mm Device Back - UMTS\_band**

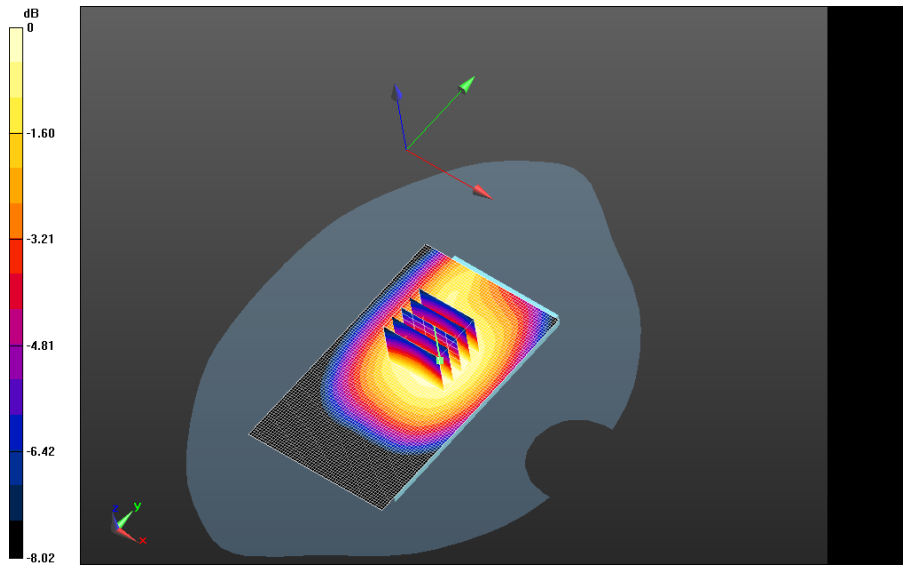
**V\_chan4182\_amb\_temp\_23.5C\_liq\_temp\_21.8C/Zoom Scan (26x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 24.132 V/m; **Power Drift = -0.020 dB**

**Averaged SAR: SAR(1g) = 0.505 W/kg; SAR(10g) = 0.386 W/kg**

Maximum value of SAR (interpolated) = 0.623 W/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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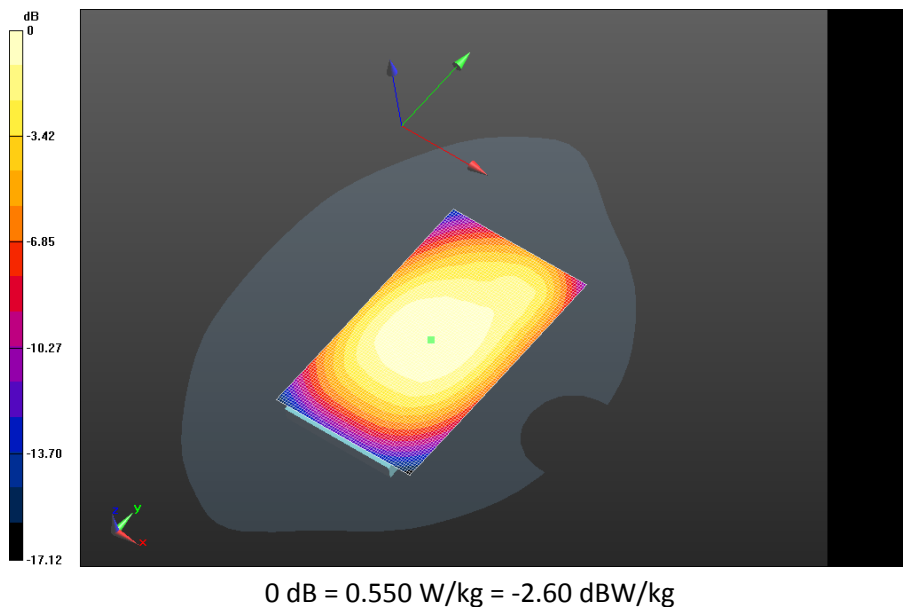


0 dB = 0.550 W/kg = -2.60 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - UMTS band V/10mm Device Front - UMTS\_band V\_chan4182\_amb\_temp\_23.4C\_liq\_temp\_21.6C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 24.544 V/m; **Power Drift = -0.052 dB**

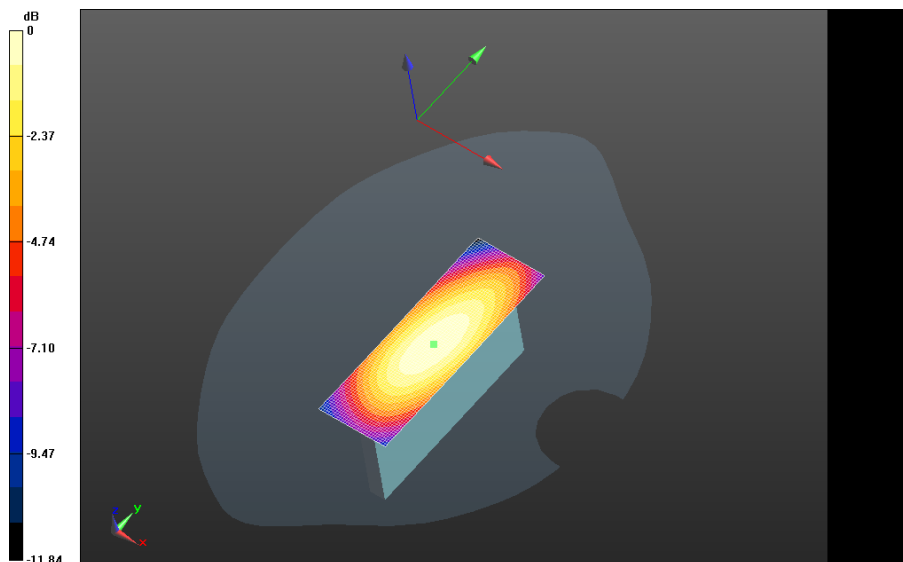
**Fast SAR: SAR(1g) = 0.489 W/kg; SAR(10g) = 0.347 W/kg**  
Maximum value of SAR (interpolated) = 0.552 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - UMTS band V/10mm Device Left - UMTS\_band V\_chan4182\_amb\_temp\_23.2C\_liq\_temp\_21.7C/Area Scan (31x91x1): Interpolated grid:**  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 22.598 V/m; **Power Drift = -0.013 dB**

**Fast SAR: SAR(1g) = 0.406 W/kg; SAR(10g) = 0.275 W/kg**  
Maximum value of SAR (interpolated) = 0.461 W/kg

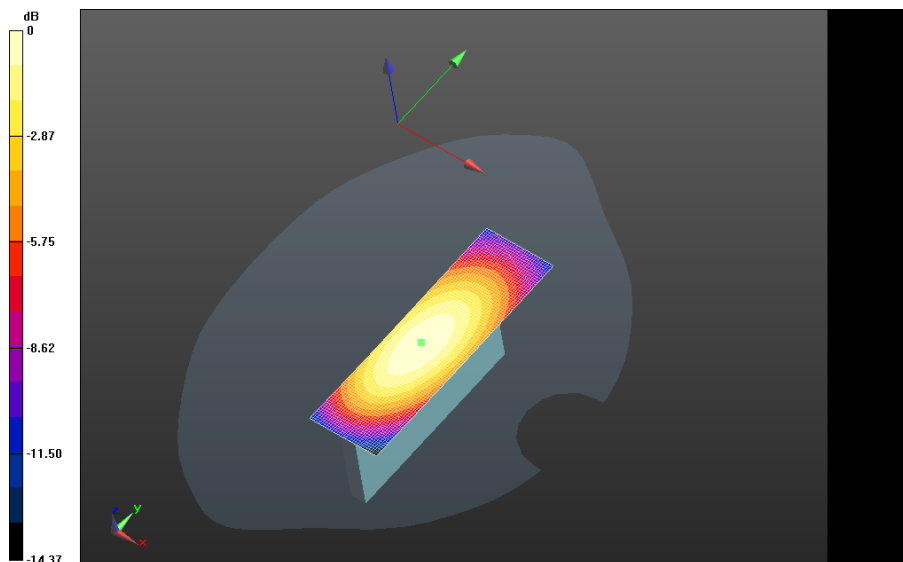


0 dB = 0.552 W/kg = -2.58 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - UMTS band V/10mm Device Right - UMTS\_band**  
**V\_chan4182\_amb\_temp\_23.1C\_liq\_temp\_21.5C/Area Scan (31x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 21.179 V/m; **Power Drift = 0.090 dB**

**Fast SAR: SAR(1g) = 0.368 W/kg; SAR(10g) = 0.248 W/kg**  
Maximum value of SAR (interpolated) = 0.422 W/kg

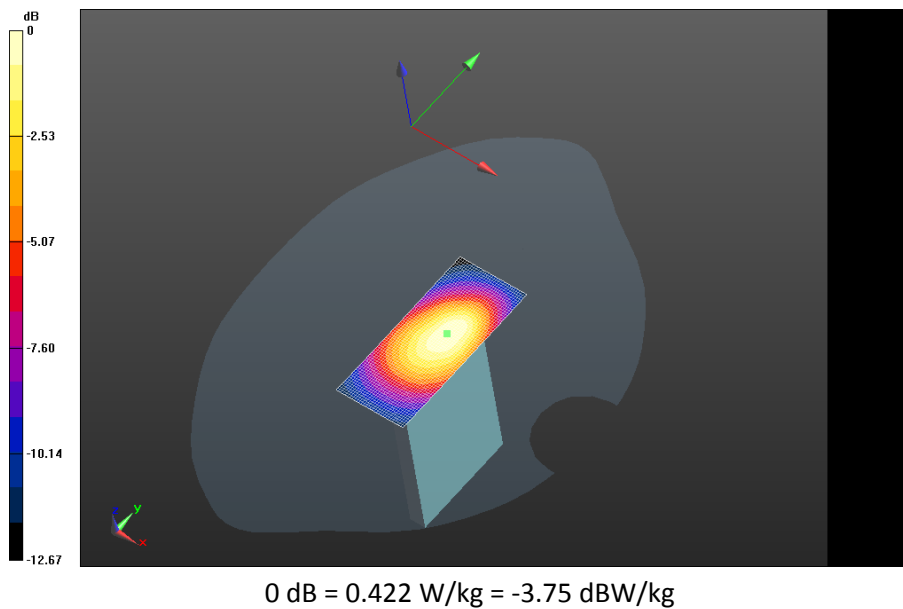


0 dB = 0.461 W/kg = -3.36 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - UMTS band V/10mm Device Bottom - UMTS\_band V\_chan4182\_amb\_temp\_23.C\_liq\_temp\_21.4C/Area Scan (31x71x1): Interpolated grid:**  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 13.833 V/m; **Power Drift = -0.149 dB**

**Fast SAR: SAR(1g) = 0.166 W/kg; SAR(10g) = 0.105 W/kg**  
Maximum value of SAR (interpolated) = 0.197 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                             |
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# LTE Band 5

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

Date: 7/15/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - LTE Band 5**

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

Medium Parameters used:  $f=829$  MHz;  $\sigma = 0.963$  S/m;  $\epsilon_r = 53.325$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (6.12,6.12,6.12); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - LTE Band 5/10mm Device Back -**

**LTE\_Band\_5\_chan20450\_RB1\_Off49\_amb\_temp\_23.2C\_liq\_temp\_22.3C/Area Scan**

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

Reference Value = 22.970 V/m; **Power Drift = -0.079 dB**

#### **Mobile Hot Spot MSL - LTE Band 5/10mm Device Back -**

**LTE\_Band\_5\_chan20450\_RB1\_Off49\_amb\_temp\_23.2C\_liq\_temp\_22.3C/Zoom Scan**

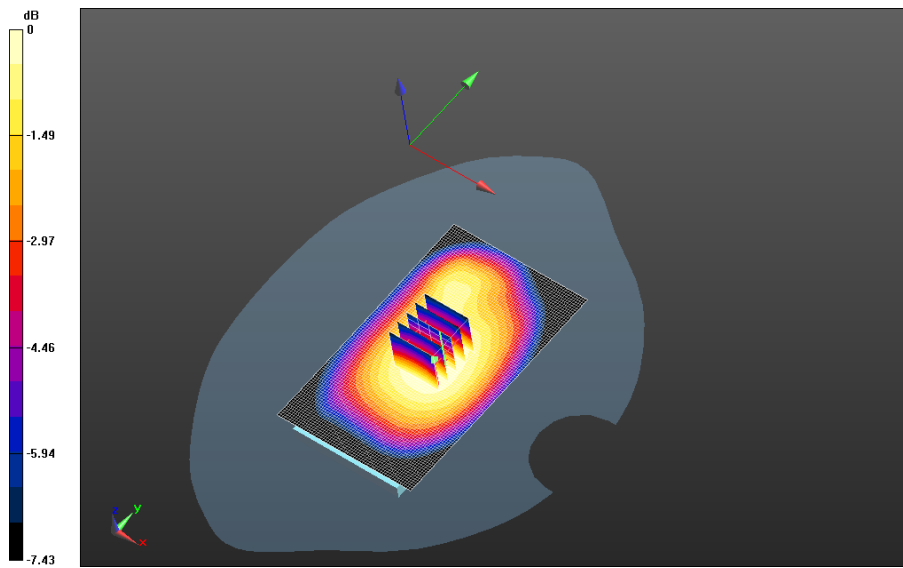
**(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 22.970 V/m; **Power Drift = -0.129 dB**

**Averaged SAR: SAR(1g) = 0.416 W/kg; SAR(10g) = 0.322 W/kg**

Maximum value of SAR (interpolated) = 0.515 W/kg

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

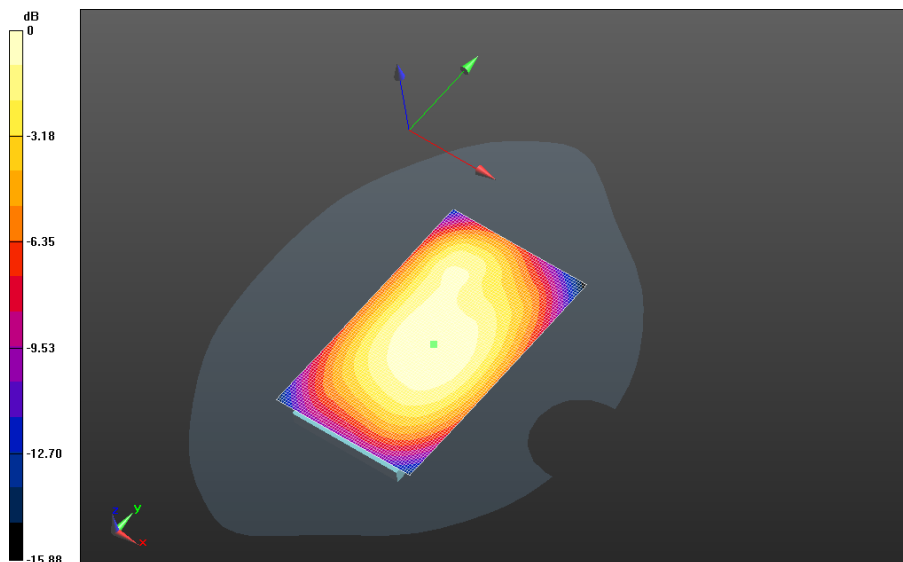


0 dB = 0.455 W/kg = -3.42 dBW/kg

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

**Mobile Hot Spot MSL - LTE Band 5/10mm Device Back -**  
**LTE\_Band\_5\_chan20525\_RB25\_Off25\_amb\_temp\_23.2C\_liq\_temp\_22.3C/Area Scan**  
**(61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 19.507 V/m; **Power Drift = 0.021 dB**

**Fast SAR: SAR(1g) = 0.307 W/kg; SAR(10g) = 0.217 W/kg**  
Maximum value of SAR (interpolated) = 0.348 W/kg

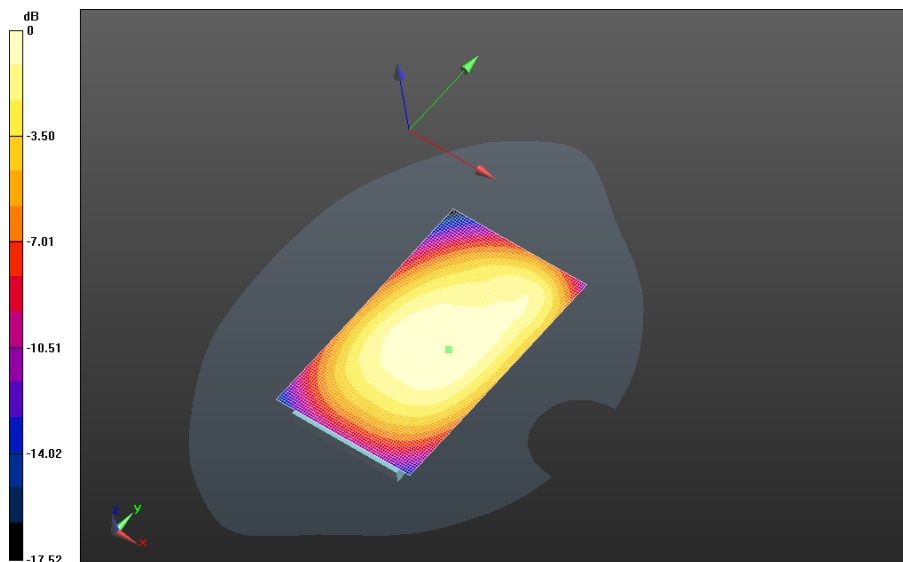


0 dB = 0.455 W/kg = -3.42 dBW/kg

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

**Mobile Hot Spot MSL - LTE Band 5/10mm Device Front -**  
**LTE\_Band\_5\_chan20450\_RB1\_Off49\_amb\_temp\_23.3C\_liq\_temp\_22.3C/Area Scan**  
**(61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 22.606 V/m; **Power Drift = -0.024 dB**

**Fast SAR: SAR(1g) = 0.415 W/kg; SAR(10g) = 0.294 W/kg**  
Maximum value of SAR (interpolated) = 0.469 W/kg



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

|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - LTE Band 5/10mm Device Left -**

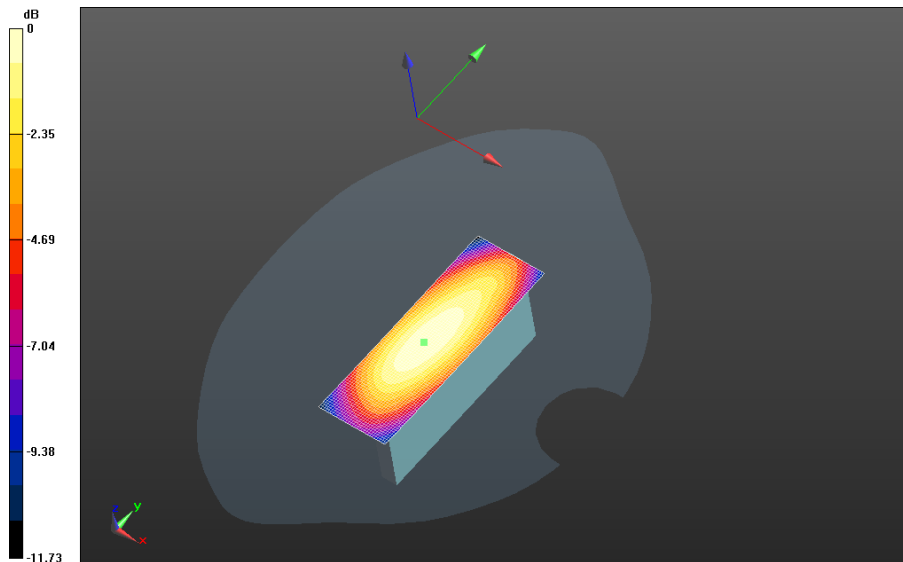
**LTE\_Band\_5\_chan20450\_RB1\_Off49\_amb\_temp\_23.4C\_liq\_temp\_22.3C/Area Scan (31x91x1):**

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

Reference Value = 26.124 V/m; **Power Drift = -0.027 dB**

**Fast SAR: SAR(1g) = 0.526 W/kg; SAR(10g) = 0.353 W/kg**

Maximum value of SAR (interpolated) = 0.598 W/kg

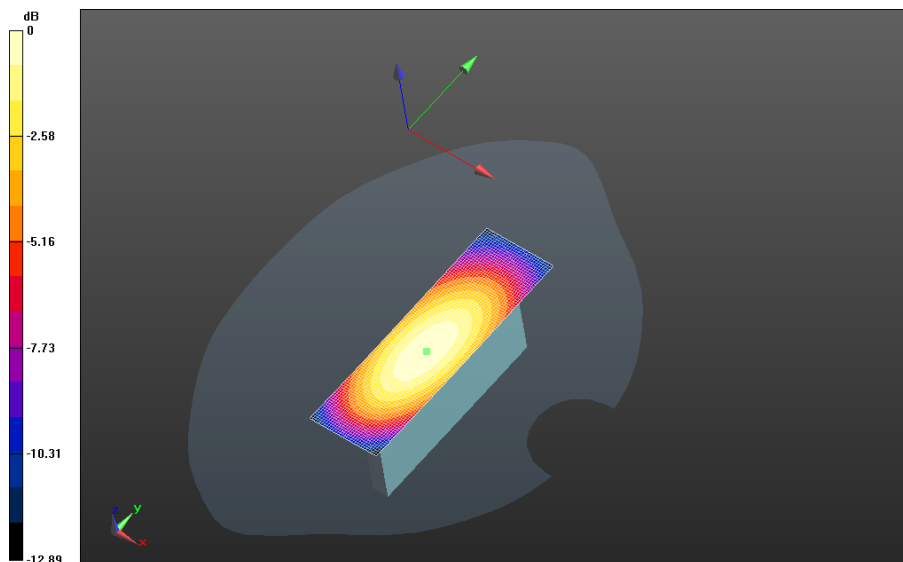


0 dB = 0.469 W/kg = -3.29 dBW/kg

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**Mobile Hot Spot MSL - LTE Band 5/10mm Device Right -**  
**LTE\_Band\_5\_chan20450\_RB1\_Off49\_amb\_temp\_23.2C\_liq\_temp\_22.3C/Area Scan**  
**(31x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 21.464 V/m; **Power Drift = 0.136 dB**

**Fast SAR: SAR(1g) = 0.371 W/kg; SAR(10g) = 0.250 W/kg**  
Maximum value of SAR (interpolated) = 0.422 W/kg



0 dB = 0.598 W/kg = -2.23 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - LTE Band 5/10mm Device Bottom -**

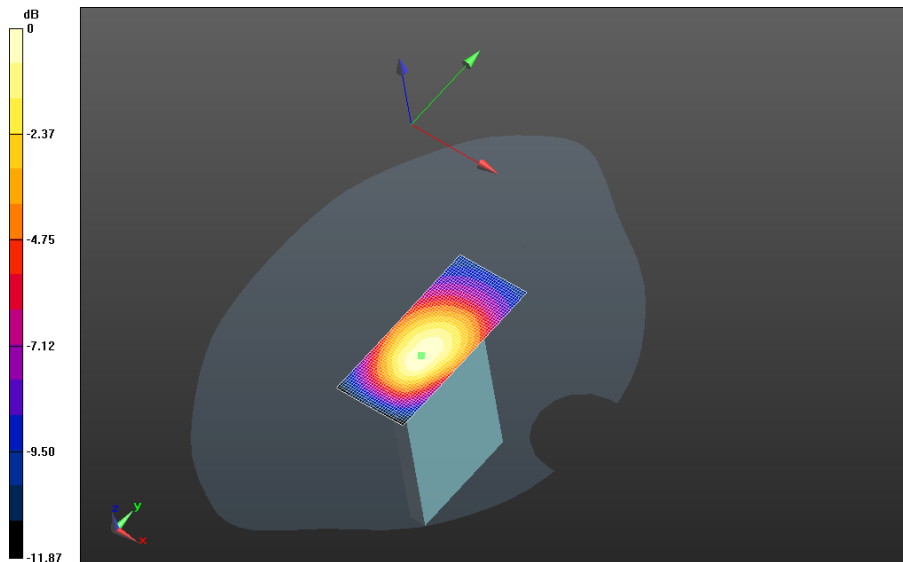
**LTE\_Band\_5\_chan20450\_RB1\_Off49\_amb\_temp\_23.3C\_liq\_temp\_22.3C/Area Scan (31x71x1):**

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

Reference Value = 12.888 V/m; **Power Drift = -0.032 dB**

**Fast SAR: SAR(1g) = 0.139 W/kg; SAR(10g) = 0.0897 W/kg**

Maximum value of SAR (interpolated) = 0.164 W/kg



0 dB = 0.422 W/kg = -3.75 dBW/kg

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# LTE Band 4

|                                                                                  |                                                                                               |                                                 |                               |                             |
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Date: 7/11/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - LTE Band 4**

Communication System: LTE 4; Communication System Band: LTE 4; Frequency: 1720 MHz

Medium Parameters used:  $f=1720$  MHz;  $\sigma = 1.489$  S/m;  $\epsilon_r = 50.876$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - LTE Band 4/10mm Device Back -**

**LTE\_Band\_4\_chan20050\_RB1\_Off50\_amb\_temp\_23.0C\_liq\_temp\_22.0C/Area Scan**

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

Reference Value = 10.215 V/m; **Power Drift = -0.077 dB**

#### **Mobile Hot Spot MSL - LTE Band 4/10mm Device Back -**

**LTE\_Band\_4\_chan20050\_RB1\_Off50\_amb\_temp\_23.0C\_liq\_temp\_22.0C/Zoom Scan**

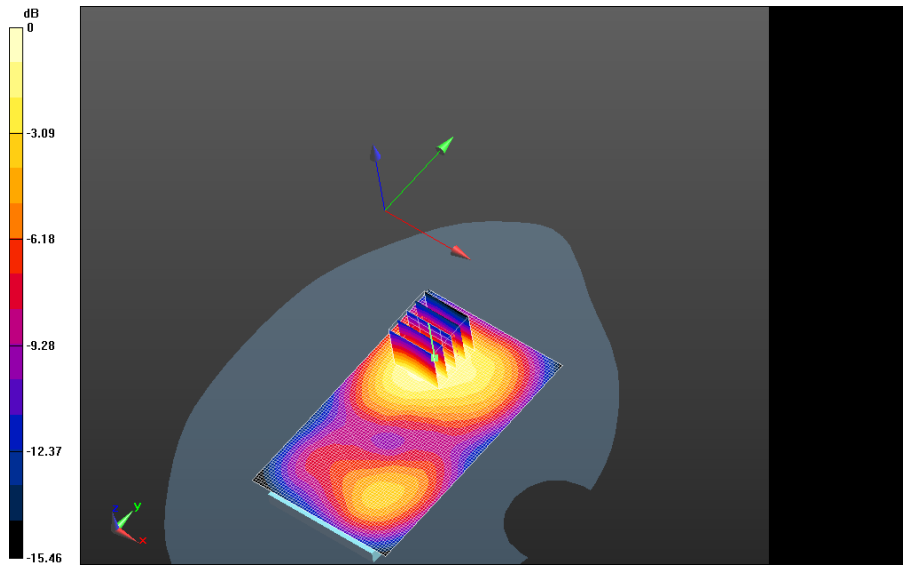
**(21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.215 V/m; **Power Drift = -0.107 dB**

**Averaged SAR: SAR(1g) = 0.952 W/kg; SAR(10g) = 0.584 W/kg**

Maximum value of SAR (interpolated) = 1.49 W/kg

|                                                                                   |                                                                                               |                                                 |                               |                             |
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0 dB = 1.11 W/kg = 0.45 dBW/kg

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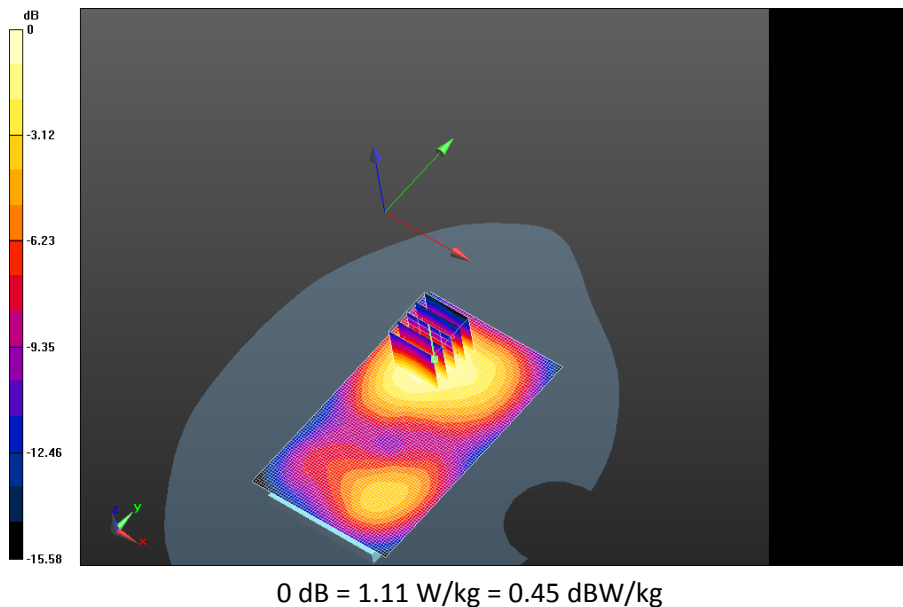
**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back -**

**LTE\_Band\_4\_chan20050\_RB1\_Off50\_2nd\_scan\_amb\_temp\_23.3C\_liq\_temp\_22.1C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 9.898 V/m; **Power Drift = -0.013 dB**

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back -**

**LTE\_Band\_4\_chan20050\_RB1\_Off50\_2nd\_scan\_amb\_temp\_23.3C\_liq\_temp\_22.1C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 9.898 V/m; **Power Drift = -0.020 dB**

**Averaged SAR: SAR(1g) = 0.903 W/kg; SAR(10g) = 0.554 W/kg**  
Maximum value of SAR (interpolated) = 1.44 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back -**

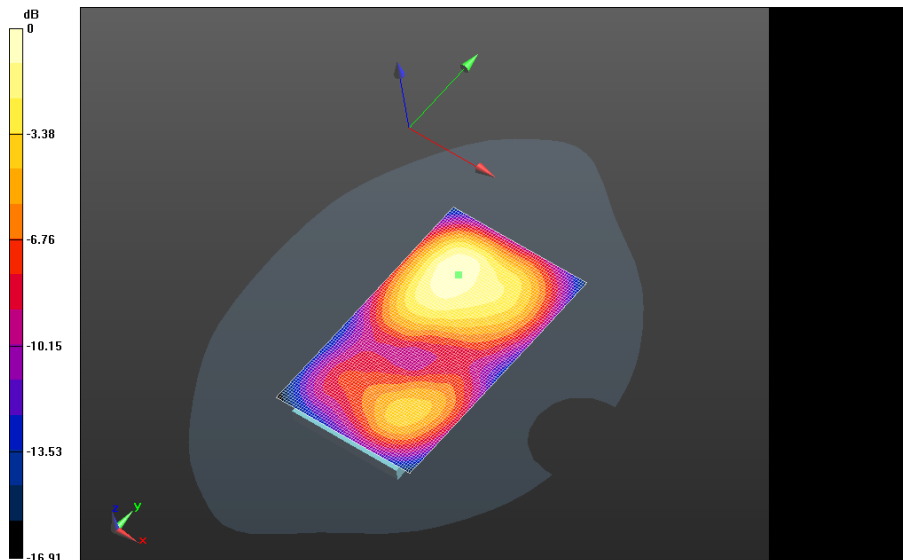
**LTE\_Band\_4\_chan20175\_RB1\_Off0\_amb\_temp\_23.7C\_liq\_temp\_22.3C/Area Scan (61x101x1):**

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

Reference Value = 9.504 V/m; **Power Drift = 0.064 dB**

**Fast SAR: SAR(1g) = 0.819 W/kg; SAR(10g) = 0.495 W/kg**

Maximum value of SAR (interpolated) = 0.980 W/kg

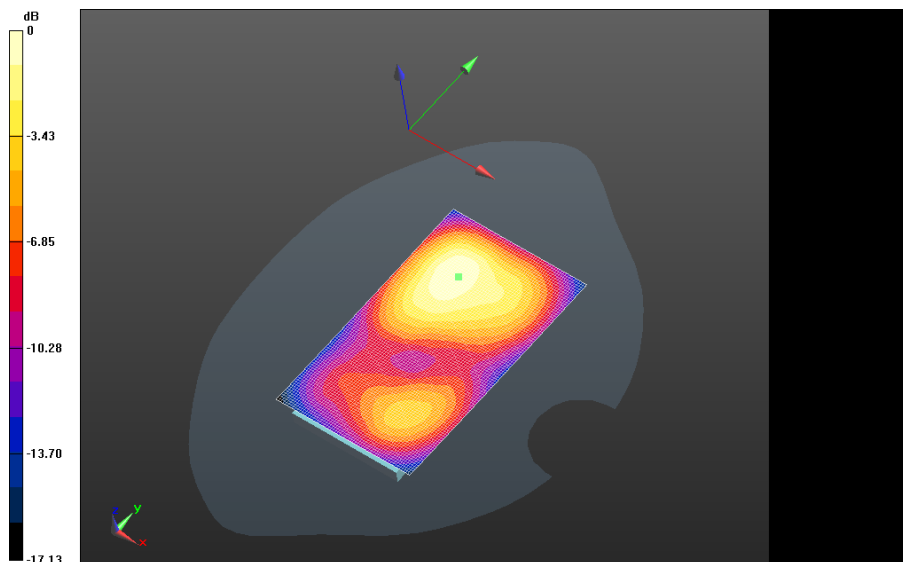


0 dB = 1.06 W/kg = 0.25 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back -**  
**LTE\_Band\_4\_chan20300\_RB1\_Off50\_amb\_temp\_23.0C\_liq\_temp\_22.1C/Area Scan**  
**(61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.121 V/m; **Power Drift = -0.127 dB**

**Fast SAR: SAR(1g) = 0.871 W/kg; SAR(10g) = 0.524 W/kg**  
Maximum value of SAR (interpolated) = 1.04 W/kg

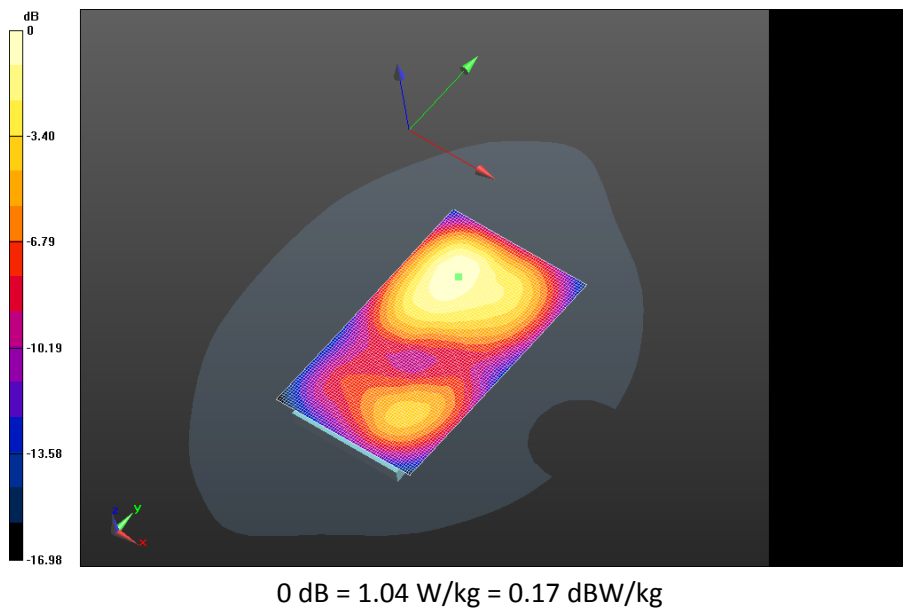


0 dB = 0.980 W/kg = -0.09 dBW/kg

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**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back -**  
**LTE\_Band\_4\_chan20300\_RB50\_Off50\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Area Scan**  
**(61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 9.075 V/m; **Power Drift = -0.00731 dB**

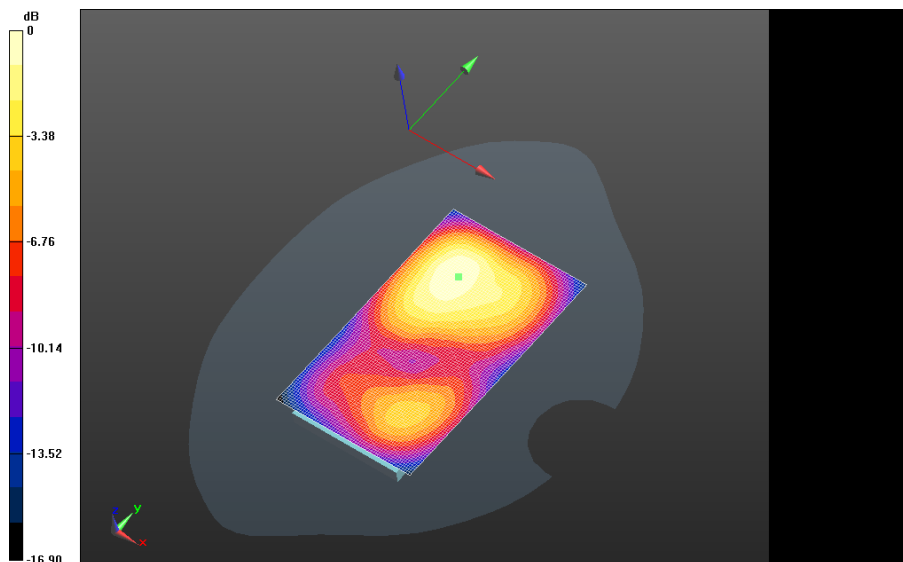
**Fast SAR: SAR(1g) = 0.711 W/kg; SAR(10g) = 0.429 W/kg**  
Maximum value of SAR (interpolated) = 0.851 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - LTE Band 4/10mm Device Back -**  
**LTE\_Band\_4\_chan20300\_RB100\_Off0\_amb\_temp\_23.2C\_liq\_temp\_22.2C/Area Scan**  
**(61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.935 V/m; **Power Drift = 0.00397 dB**

**Fast SAR: SAR(1g) = 0.706 W/kg; SAR(10g) = 0.426 W/kg**  
Maximum value of SAR (interpolated) = 0.845 W/kg

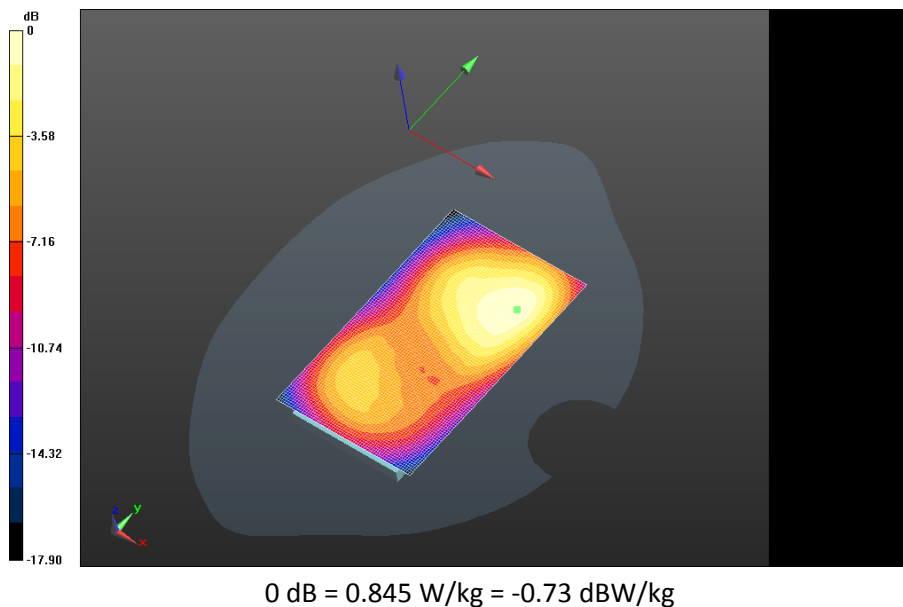


0 dB = 0.851 W/kg = -0.70 dBW/kg

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**Mobile Hot Spot MSL - LTE Band 4/10mm Device Front -**  
**LTE\_Band\_4\_chan20300\_RB1\_Off50\_amb\_temp\_23.2C\_liq\_temp\_22.2C/Area Scan**  
**(61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 11.504 V/m; **Power Drift = -0.025 dB**

**Fast SAR: SAR(1g) = 0.729 W/kg; SAR(10g) = 0.447 W/kg**  
Maximum value of SAR (interpolated) = 0.882 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - LTE Band 4/10mm Device Left -**

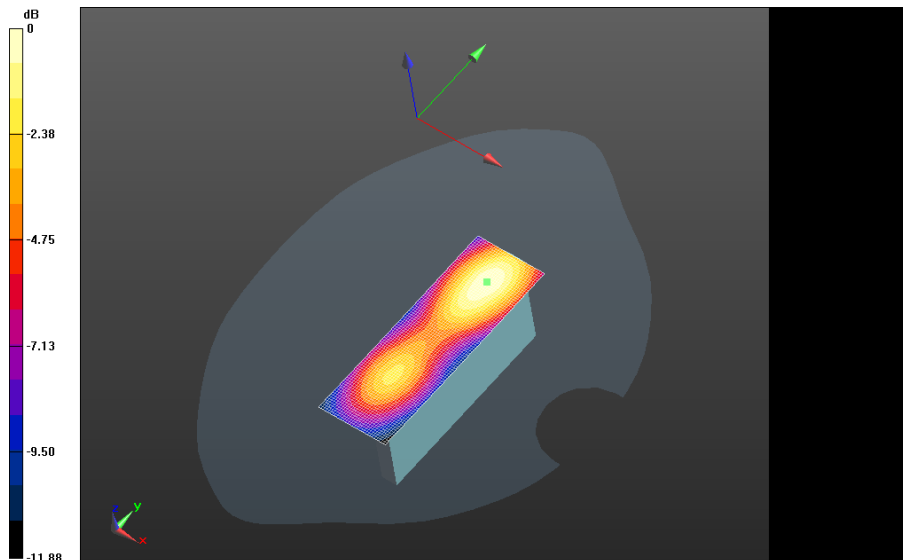
**LTE\_Band\_4\_chan20300\_RB1\_Off50\_amb\_temp\_23.8C\_liq\_temp\_22.8C/Area Scan (31x91x1):**

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

Reference Value = 13.401 V/m; **Power Drift = 0.00579 dB**

**Fast SAR: SAR(1g) = 0.542 W/kg; SAR(10g) = 0.311 W/kg**

Maximum value of SAR (interpolated) = 0.656 W/kg

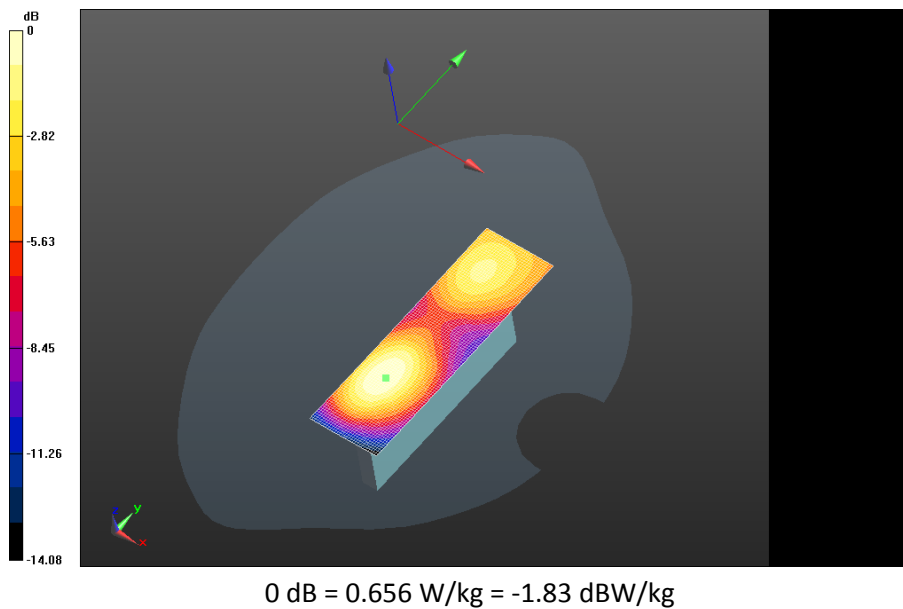


0 dB = 0.882 W/kg = -0.55 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - LTE Band 4/10mm Device Right -**  
**LTE\_Band\_4\_chan20300\_RB1\_Off50\_amb\_temp\_23.8C\_liq\_temp\_22.8C/Area Scan**  
**(31x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.174 V/m; **Power Drift = 0.077 dB**

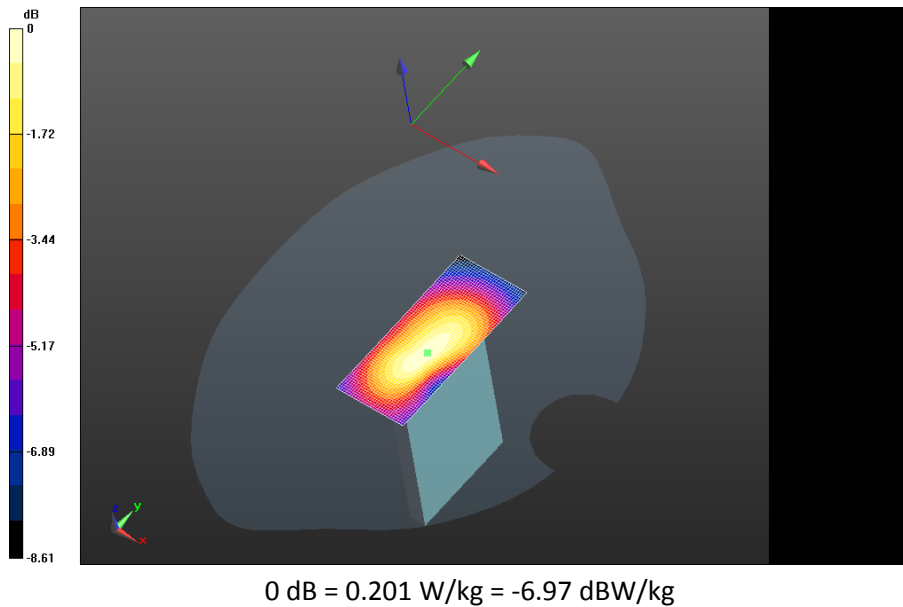
**Fast SAR: SAR(1g) = 0.168 W/kg; SAR(10g) = 0.0982 W/kg**  
Maximum value of SAR (interpolated) = 0.201 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                             |
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|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RFY111LW SAR Report Rev 3</b> |                                                 |                               | Page<br><b>38(87)</b>       |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>July 02 –August 15, 2013</b>                                              | Test Report No<br><b>RTS-6046-1308-34 Rev 3</b> | FCC ID:<br><b>L6ARFY110LW</b> | IC<br><b>2503A-RFY110LW</b> |

**Mobile Hot Spot MSL - LTE Band 4/10mm Device Bottom -**  
**LTE\_Band\_4\_chan20300\_RB1\_Off50\_amb\_temp\_23.8C\_liq\_temp\_22.8C/Area Scan (31x71x1):**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 13.355 V/m; **Power Drift = 0.094 dB**

**Fast SAR: SAR(1g) = 0.224 W/kg; SAR(10g) = 0.132 W/kg**  
Maximum value of SAR (interpolated) = 0.274 W/kg



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

# UMTS Band IV

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

Date: 7/11/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - UMTS IV**

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

Frequency: 1712.4 MHz

Medium Parameters used:  $f=1712.4$  MHz;  $\sigma = 1.479$  S/m;  $\epsilon_r = 50.873$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - UMTS IV/10mm Device Back -**

**UMTS\_IV\_chan1312\_amb\_temp\_22.8C\_liq\_temp\_22.1C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.935 V/m; **Power Drift = -0.097 dB**

#### **Mobile Hot Spot MSL - UMTS IV/10mm Device Back -**

**UMTS\_IV\_chan1312\_amb\_temp\_22.8C\_liq\_temp\_22.1C/Zoom Scan (21x21x36)/Cube 0:**

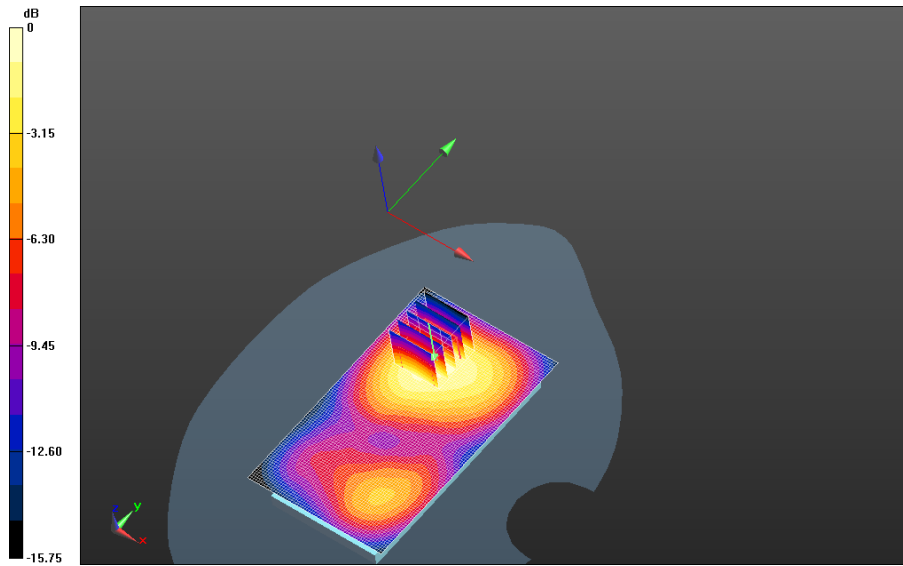
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 11.935 V/m; **Power Drift = -0.097 dB**

**Averaged SAR: SAR(1g) = 1.23 W/kg; SAR(10g) = 0.749 W/kg**

Maximum value of SAR (interpolated) = 1.95 W/kg

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



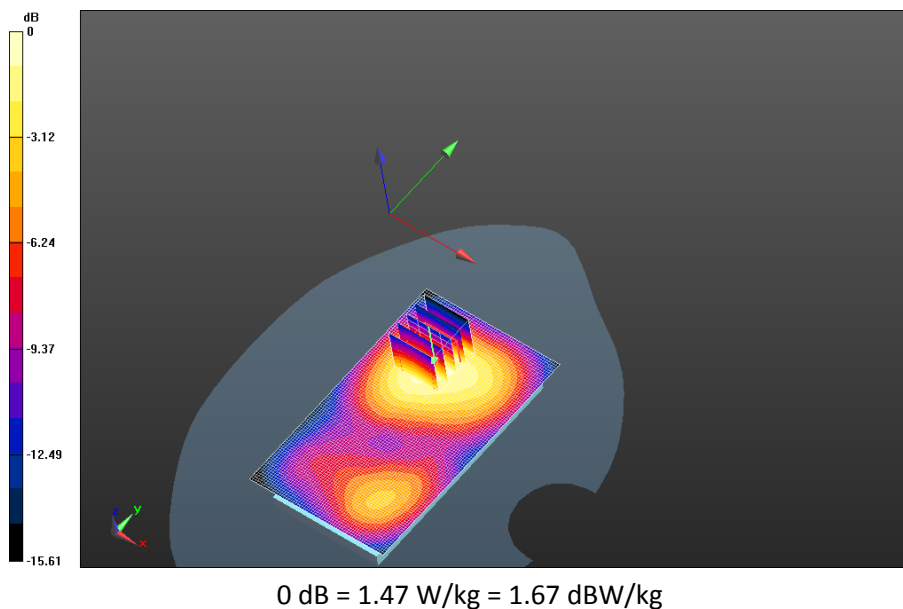
0 dB = 1.47 W/kg = 1.67 dBW/kg

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

**Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS\_IV\_chan1312\_2nd scan\_amb\_temp\_22.7C\_liq\_temp\_22.1C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 12.030 V/m; **Power Drift = 0.066 dB**

**Mobile Hot Spot MSL - UMTS IV/10mm Device Back - UMTS\_IV\_chan1312\_2nd scan\_amb\_temp\_22.7C\_liq\_temp\_22.1C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 12.030 V/m; **Power Drift = 0.066 dB**

**Averaged SAR: SAR(1g) = 1.22 W/kg; SAR(10g) = 0.743 W/kg**  
Maximum value of SAR (interpolated) = 1.93 W/kg



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

**Mobile Hot Spot MSL - UMTS IV/10mm Device Back -**

**UMTS\_IV\_chan1413\_amb\_temp\_22.9C\_liq\_temp\_22.4C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 11.170 V/m; **Power Drift = -0.055 dB**

**Mobile Hot Spot MSL - UMTS IV/10mm Device Back -**

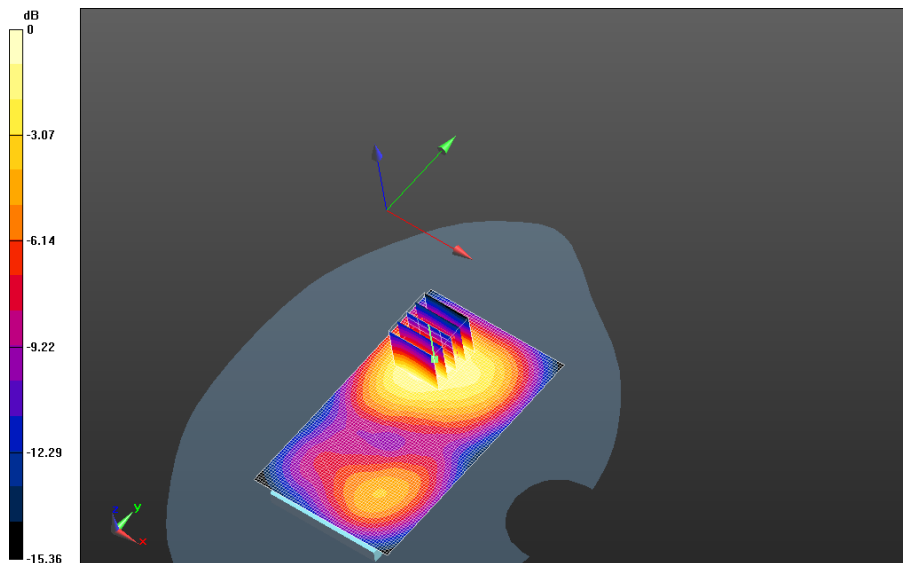
**UMTS\_IV\_chan1413\_amb\_temp\_22.9C\_liq\_temp\_22.4C/Zoom Scan (21x21x36)/Cube 0:**

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

Reference Value = 11.170 V/m; **Power Drift = -0.055 dB**

**Averaged SAR: SAR(1g) = 1.04 W/kg; SAR(10g) = 0.635 W/kg**

Maximum value of SAR (interpolated) = 1.67 W/kg



0 dB = 1.45 W/kg = 1.61 dBW/kg

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

**Mobile Hot Spot MSL - UMTS IV/10mm Device Back -**

**UMTS\_IV\_chan1513\_amb\_temp\_23.1C\_liq\_temp\_22.4C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 12.195 V/m; **Power Drift = -0.039 dB**

**Mobile Hot Spot MSL - UMTS IV/10mm Device Back -**

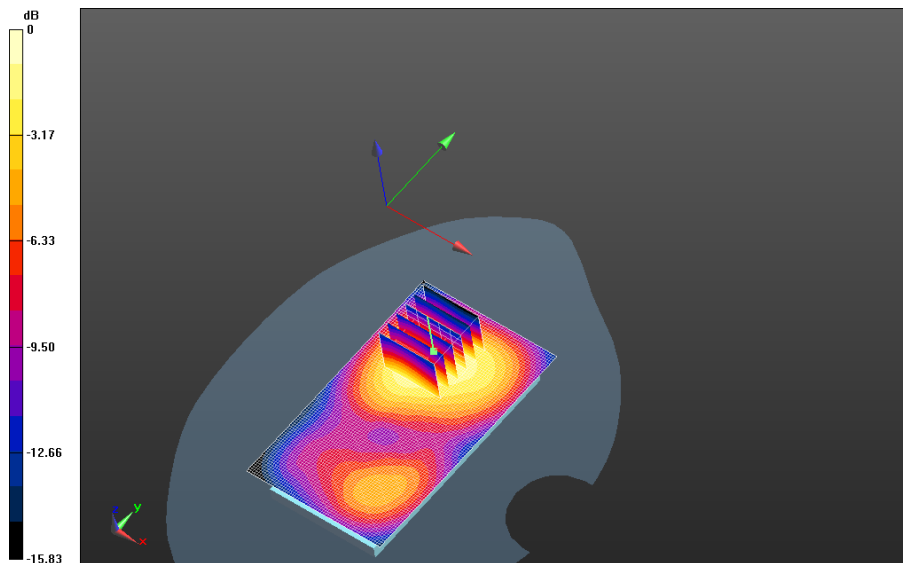
**UMTS\_IV\_chan1513\_amb\_temp\_23.1C\_liq\_temp\_22.4C/Zoom Scan (26x26x36)/Cube 0:**

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

Reference Value = 12.195 V/m; **Power Drift = -0.039 dB**

**Averaged SAR: SAR(1g) = 1.18 W/kg; SAR(10g) = 0.716 W/kg**

Maximum value of SAR (interpolated) = 1.90 W/kg



0 dB = 1.22 W/kg = 0.86 dBW/kg

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

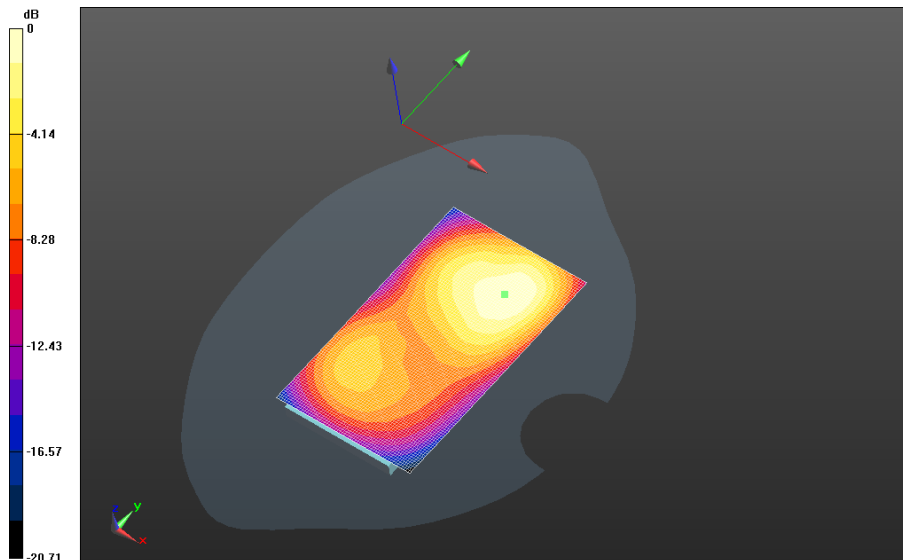
**Mobile Hot Spot MSL - UMTS IV/10mm Device Front -**

**UMTS\_IV\_chan1312\_amb\_temp\_23.0C\_liq\_temp\_22.3C/Area Scan (61x101x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 13.703 V/m; **Power Drift = -0.042 dB**

**Fast SAR: SAR(1g) = 1.12 W/kg; SAR(10g) = 0.689 W/kg**

Maximum value of SAR (interpolated) = 1.34 W/kg



0 dB = 1.40 W/kg = 1.46 dBW/kg

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

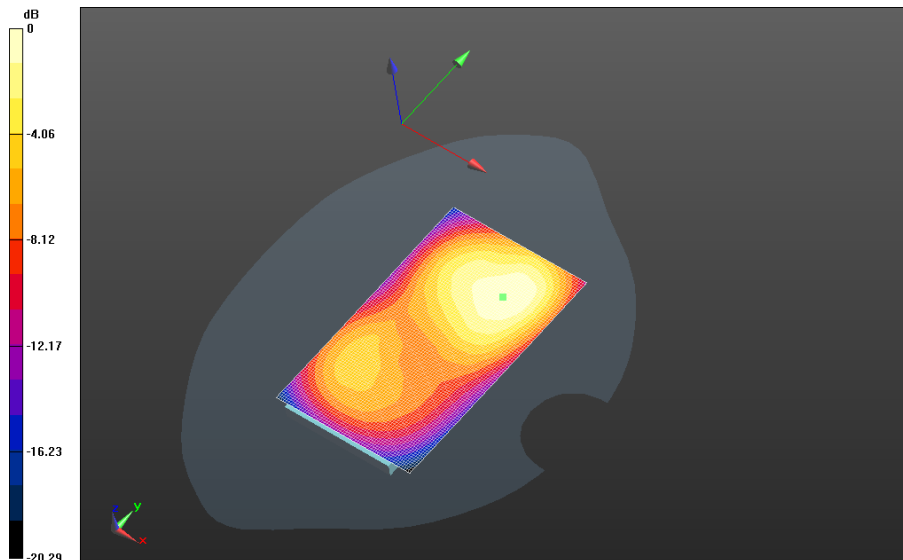
**Mobile Hot Spot MSL - UMTS IV/10mm Device Front -**

**UMTS\_IV\_chan1413\_amb\_temp\_23.0C\_liq\_temp\_22.3C/Area Scan (61x101x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 12.298 V/m; **Power Drift = 0.041 dB**

**Fast SAR: SAR(1g) = 0.960 W/kg; SAR(10g) = 0.588 W/kg**

Maximum value of SAR (interpolated) = 1.14 W/kg



0 dB = 1.34 W/kg = 1.27 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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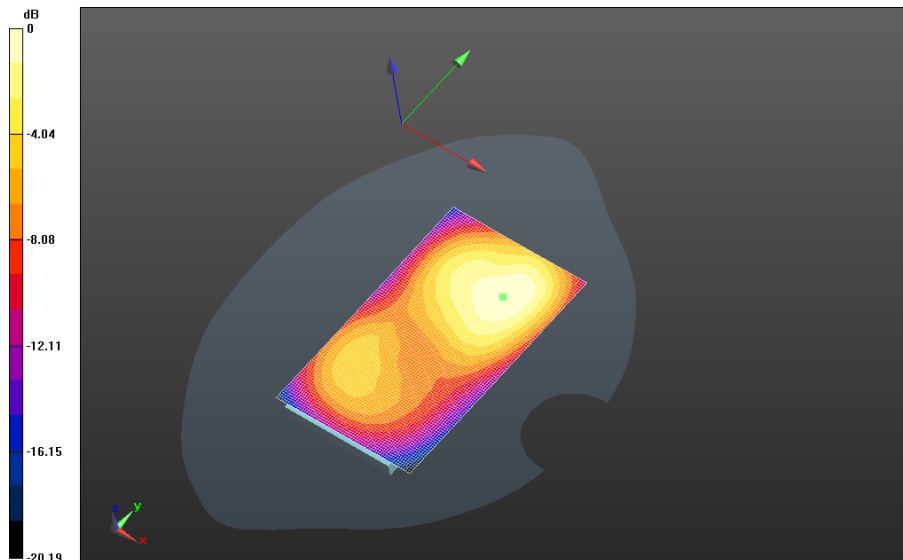
**Mobile Hot Spot MSL - UMTS IV/10mm Device Front -**

**UMTS\_IV\_chan1513\_amb\_temp\_23.0C\_liq\_temp\_22.3C/Area Scan (61x101x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 13.181 V/m; **Power Drift = -0.033 dB**

**Fast SAR: SAR(1g) = 1.12 W/kg; SAR(10g) = 0.688 W/kg**

Maximum value of SAR (interpolated) = 1.34 W/kg



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

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

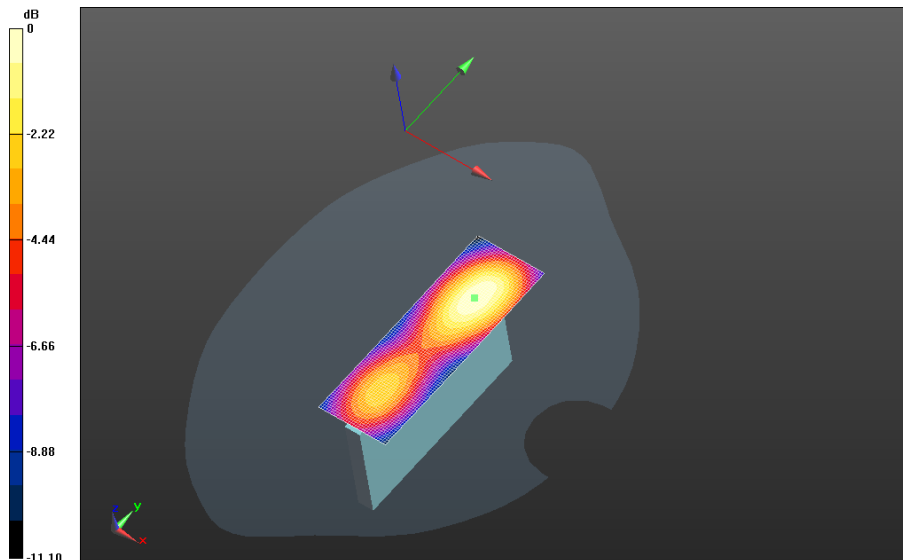
**Mobile Hot Spot MSL - UMTS IV/10mm Device Left -**

**UMTS\_IV\_chan1413\_amb\_temp\_23.0C\_liq\_temp\_22.0C/Area Scan (31x91x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 13.477 V/m; **Power Drift = 0.018 dB**

**Fast SAR: SAR(1g) = 0.579 W/kg; SAR(10g) = 0.336 W/kg**

Maximum value of SAR (interpolated) = 0.694 W/kg



0 dB = 1.34 W/kg = 1.27 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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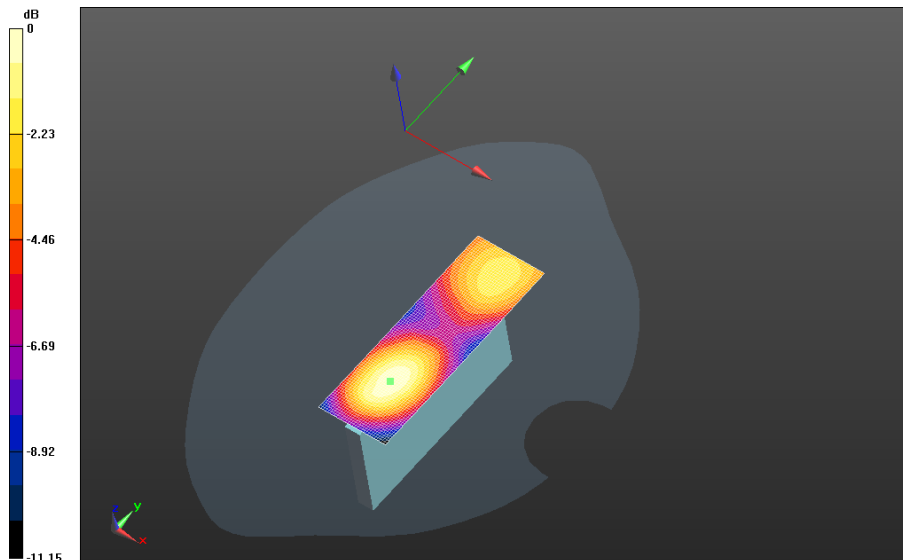
**Mobile Hot Spot MSL - UMTS IV/10mm Device Right -**

**UMTS\_IV\_chan1413\_amb\_temp\_22.9C\_liq\_temp\_22.1C/Area Scan (31x91x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.395 V/m; **Power Drift = -0.026 dB**

**Fast SAR: SAR(1g) = 0.162 W/kg; SAR(10g) = 0.0939 W/kg**

Maximum value of SAR (interpolated) = 0.194 W/kg



0 dB = 0.694 W/kg = -1.59 dBW/kg

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

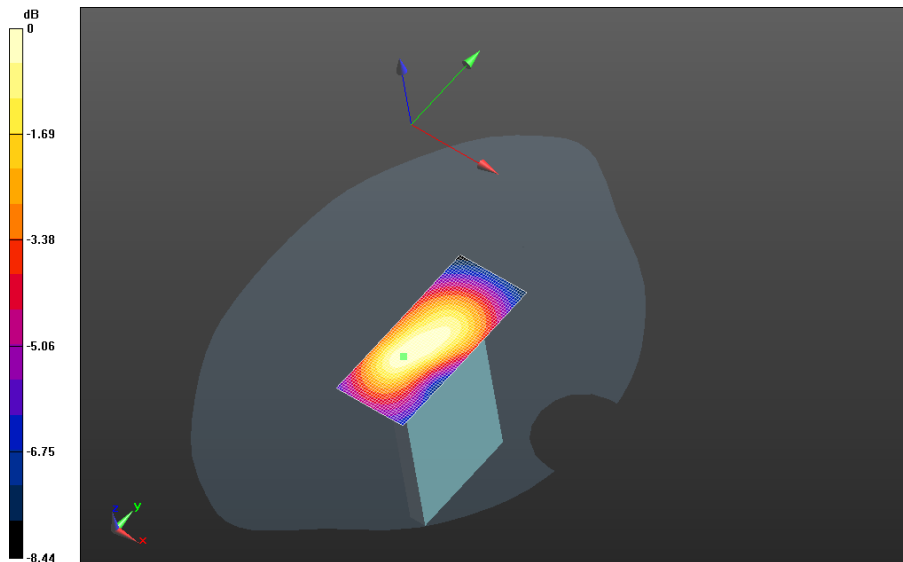
**Mobile Hot Spot MSL - UMTS IV/10mm Device Bottom -**

**UMTS\_IV\_chan1413\_amb\_temp\_23.0C\_liq\_temp\_22.1C/Area Scan (31x71x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 14.707 V/m; **Power Drift = -0.024 dB**

**Fast SAR: SAR(1g) = 0.246 W/kg; SAR(10g) = 0.149 W/kg**

Maximum value of SAR (interpolated) = 0.293 W/kg



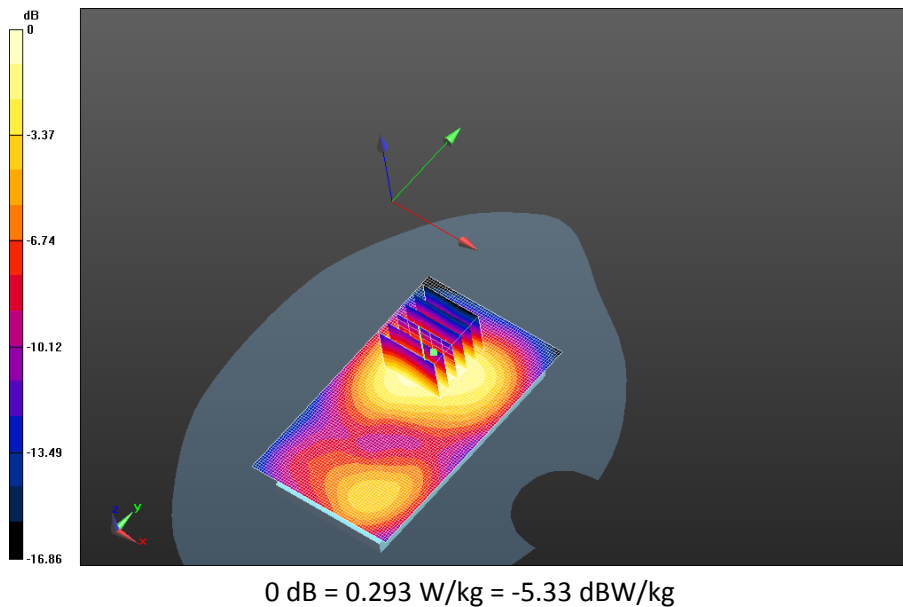
0 dB = 0.194 W/kg = -7.12 dBW/kg

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

**Mobile Hot Spot MSL - UMTS IV/Headset 10mm Device Back -**  
**UMTS\_IV\_chan1312\_amb\_temp\_22.8C\_liq\_temp\_22.1C/Area Scan (61x101x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 14.849 V/m; **Power Drift = 0.068 dB**

**Mobile Hot Spot MSL - UMTS IV/Headset 10mm Device Back -**  
**UMTS\_IV\_chan1312\_amb\_temp\_22.8C\_liq\_temp\_22.1C/Zoom Scan (26x26x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 14.849 V/m; **Power Drift = 0.068 dB**

**Averaged SAR: SAR(1g) = 1.19 W/kg; SAR(10g) = 0.723 W/kg**  
Maximum value of SAR (interpolated) = 1.95 W/kg



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

# GSM/GPRS 1900

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

Date: 7/8/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - GPRS 1900**

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.524$  S/m;  $\epsilon_r = 50.997$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - GPRS 1900/10mm Device Back -**

**GSM1900\_chan661\_amb\_temp\_24.2C\_liq\_temp\_22.6C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 9.388 V/m; **Power Drift = 0.015 dB**

#### **Mobile Hot Spot MSL - GPRS 1900/10mm Device Back -**

**GSM1900\_chan661\_amb\_temp\_24.2C\_liq\_temp\_22.6C/Zoom Scan (26x26x36)/Cube 0:**

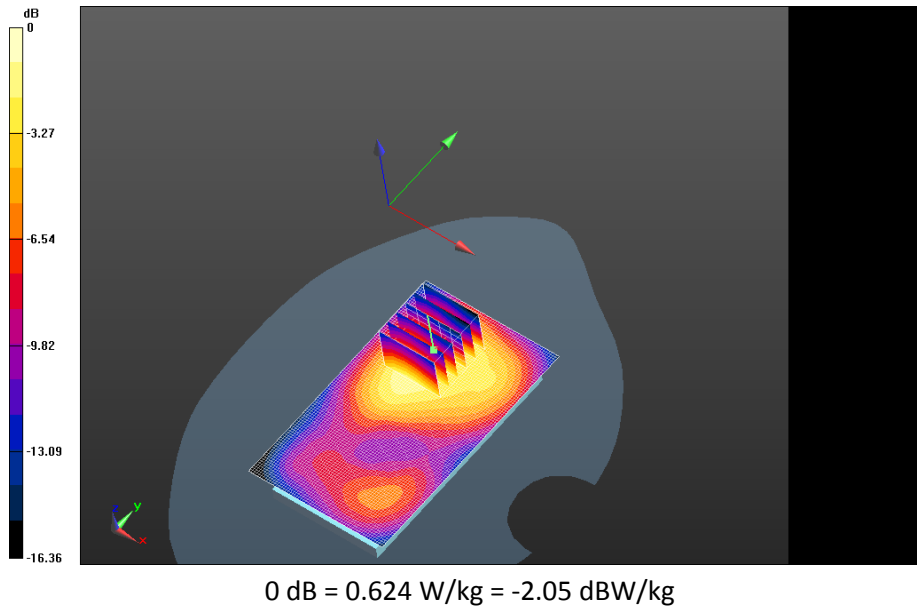
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 9.388 V/m; **Power Drift = 0.054 dB**

**Averaged SAR: SAR(1g) = 0.512 W/kg; SAR(10g) = 0.302 W/kg**

Maximum value of SAR (interpolated) = 0.867 W/kg

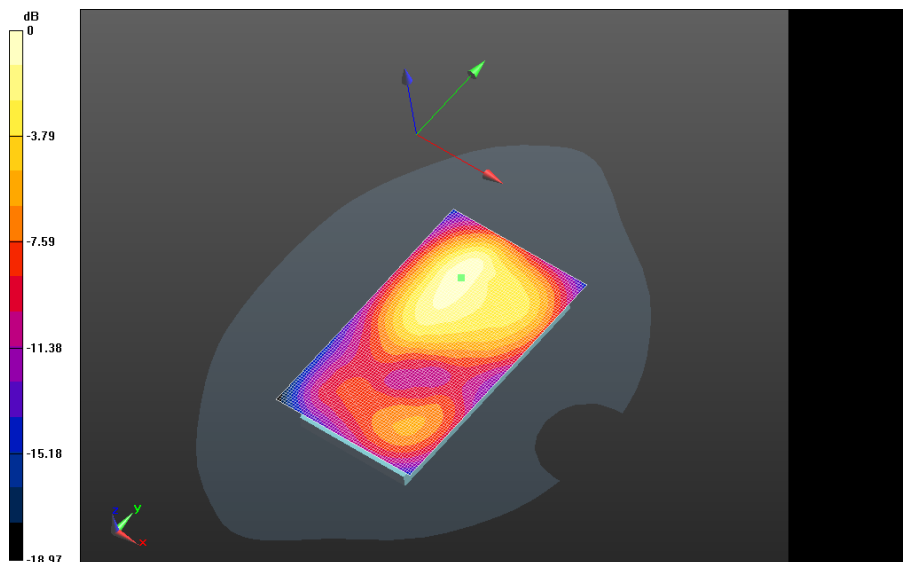
|                                                                                   |                                                                                               |                                                 |                               |                             |
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|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



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

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back -**  
**GPRS1900\_chan661\_amb\_temp\_24.4C\_liq\_temp\_22.7C/Area Scan (61x101x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 9.303 V/m; **Power Drift = -0.106 dB**

**Fast SAR: SAR(1g) = 0.488 W/kg; SAR(10g) = 0.276 W/kg**  
Maximum value of SAR (interpolated) = 0.611 W/kg

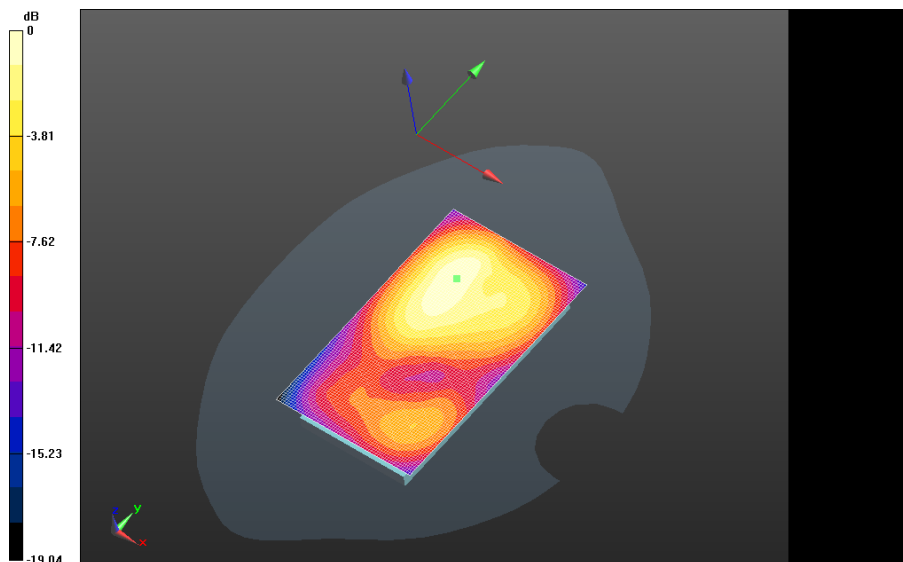


0 dB = 0.624 W/kg = -2.05 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RFY111LW SAR Report Rev 3</b> |                                                 |                               | Page<br><b>56(87)</b>       |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>July 02 –August 15, 2013</b>                                              | Test Report No<br><b>RTS-6046-1308-34 Rev 3</b> | FCC ID:<br><b>L6ARFY110LW</b> | IC<br><b>2503A-RFY110LW</b> |

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900\_3-Slots\_chan661\_amb\_temp\_24.5C\_liq\_temp\_22.8C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 9.011 V/m; **Power Drift = 0.129 dB**

**Fast SAR: SAR(1g) = 0.433 W/kg; SAR(10g) = 0.256 W/kg**  
Maximum value of SAR (interpolated) = 0.529 W/kg

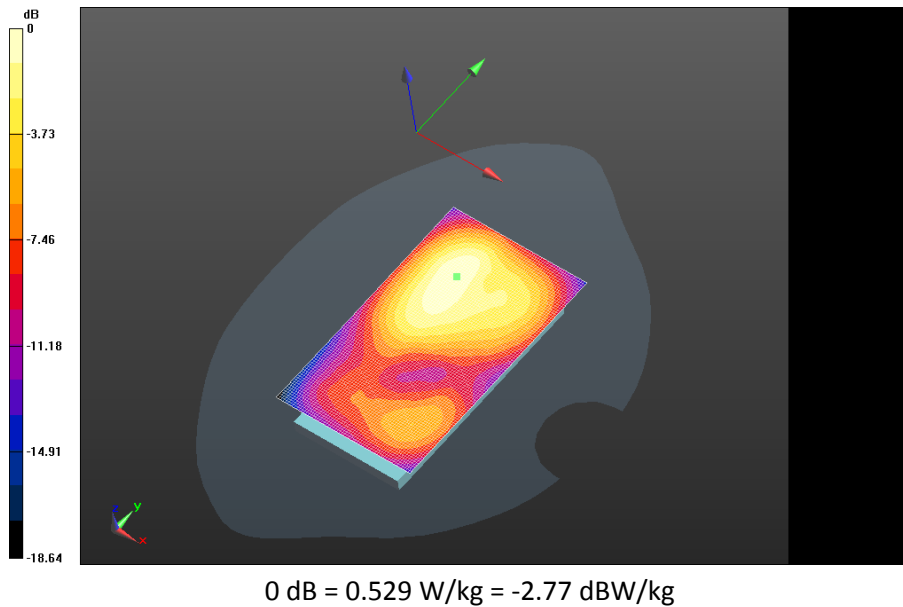


0 dB = 0.611 W/kg = -2.14 dBW/kg

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

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900\_4-Slots\_chan661\_amb\_temp\_24.4C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.779 V/m; **Power Drift = -0.086 dB**

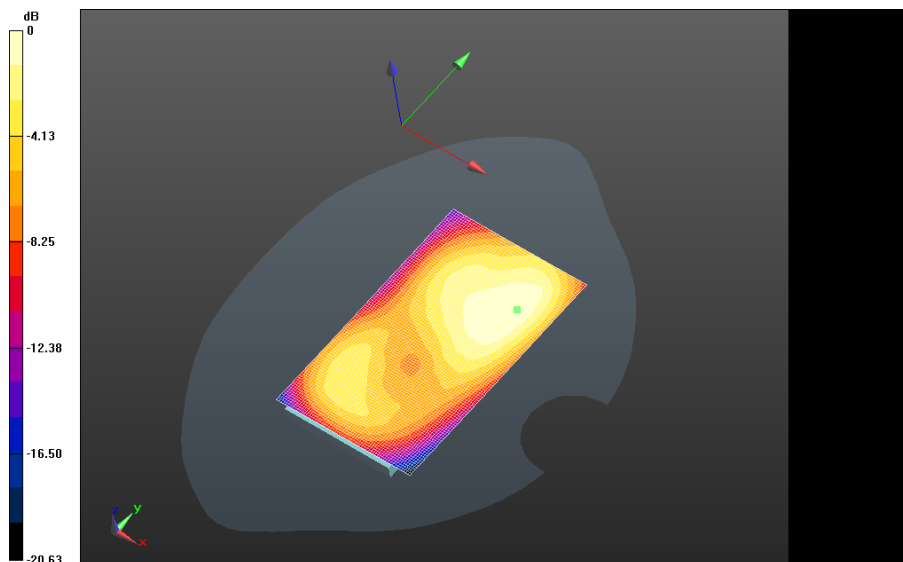
**Fast SAR: SAR(1g) = 0.406 W/kg; SAR(10g) = 0.241 W/kg**  
Maximum value of SAR (interpolated) = 0.494 W/kg



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

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Front -**  
**GSM1900\_chan661\_amb\_temp\_24.3C\_liq\_temp\_22.8C/Area Scan (61x101x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.293 V/m; **Power Drift = 0.052 dB**

**Fast SAR: SAR(1g) = 0.330 W/kg; SAR(10g) = 0.204 W/kg**  
Maximum value of SAR (interpolated) = 0.396 W/kg

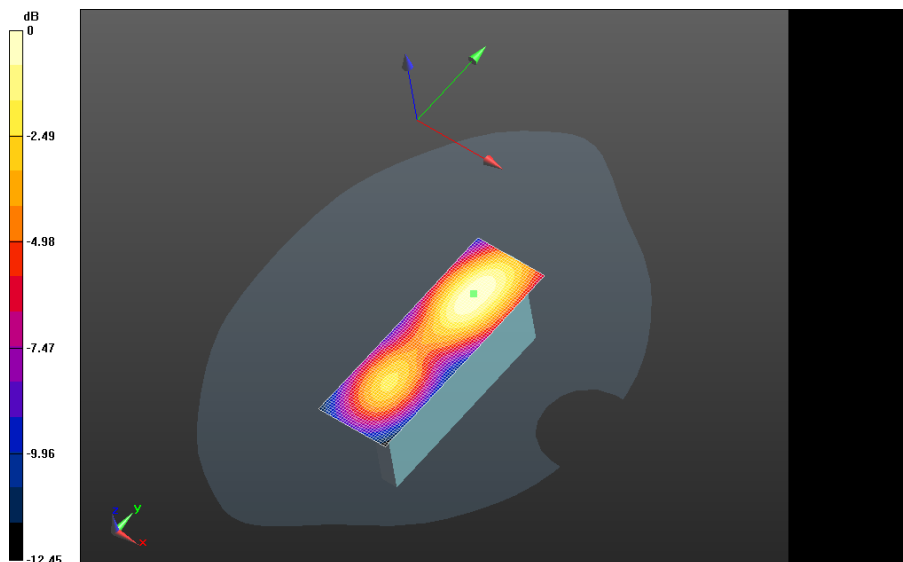


0 dB = 0.494 W/kg = -3.06 dBW/kg

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

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Left -**  
**GSM1900\_chan661\_amb\_temp\_24.2C\_liq\_temp\_22.8C/Area Scan (31x91x1): Interpolated**  
grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 10.109 V/m; **Power Drift = 0.054 dB**

**Fast SAR: SAR(1g) = 0.279 W/kg; SAR(10g) = 0.160 W/kg**  
Maximum value of SAR (interpolated) = 0.339 W/kg

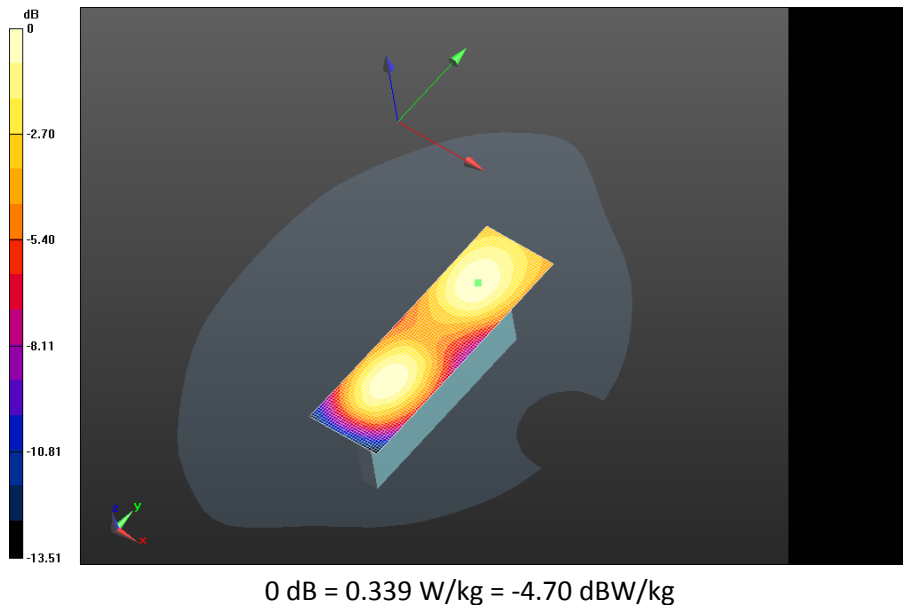


0 dB = 0.396 W/kg = -4.02 dBW/kg

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

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Right -**  
**GSM1900\_chan661\_amb\_temp\_24.2C\_liq\_temp\_22.5C/Area Scan (31x101x1):** Interpolated  
grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 5.613 V/m; **Power Drift = 0.029 dB**

**Fast SAR: SAR(1g) = 0.0804 W/kg; SAR(10g) = 0.0484 W/kg**  
Maximum value of SAR (interpolated) = 0.0966 W/kg



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

**Mobile Hot Spot MSL - GPRS 1900/10mm Device Bottom -**

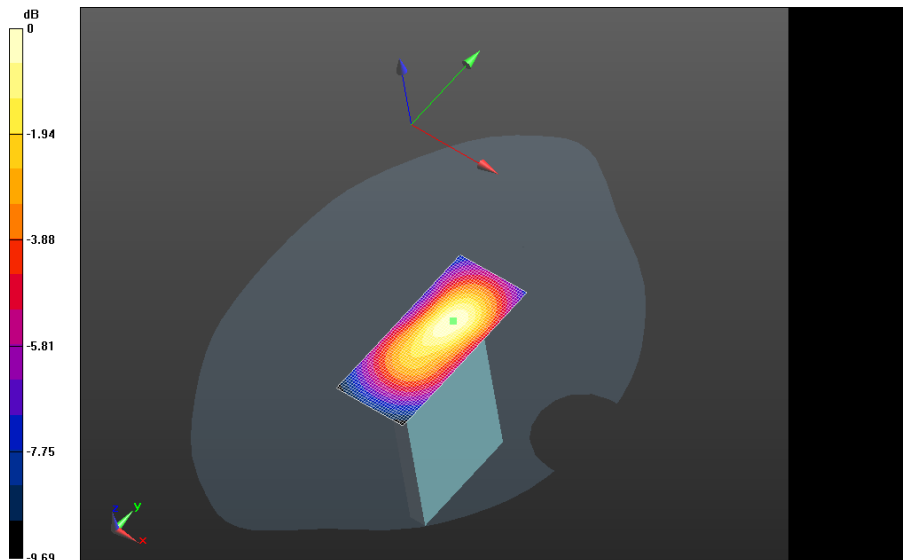
**GSM1900\_chan661\_amb\_temp\_24.3C\_liq\_temp\_22.6C/Area Scan (31x71x1): Interpolated**

grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.946 V/m; **Power Drift = -0.022 dB**

**Fast SAR: SAR(1g) = 0.170 W/kg; SAR(10g) = 0.0973 W/kg**

Maximum value of SAR (interpolated) = 0.211 W/kg



0 dB = 0.0966 W/kg = -10.15 dBW/kg

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

# UMTS Band II

|                                                                                  |                                                                                               |                                                 |                               |                             |                       |
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Date: 8/15/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - UMTS II**

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz

Medium Parameters used:  $f=1852.4$  MHz;  $\sigma = 1.502$  S/m;  $\epsilon_r = 51.051$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - UMTS II/10mm Device Back -**

**UMTS\_II\_chan9262\_amb\_temp\_22.8C\_liq\_temp\_22.1C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.746 W/kg

#### **Mobile Hot Spot MSL - UMTS II/10mm Device Back -**

**UMTS\_II\_chan9262\_amb\_temp\_22.8C\_liq\_temp\_22.1C/Zoom Scan (21x21x36)/Cube 0:**

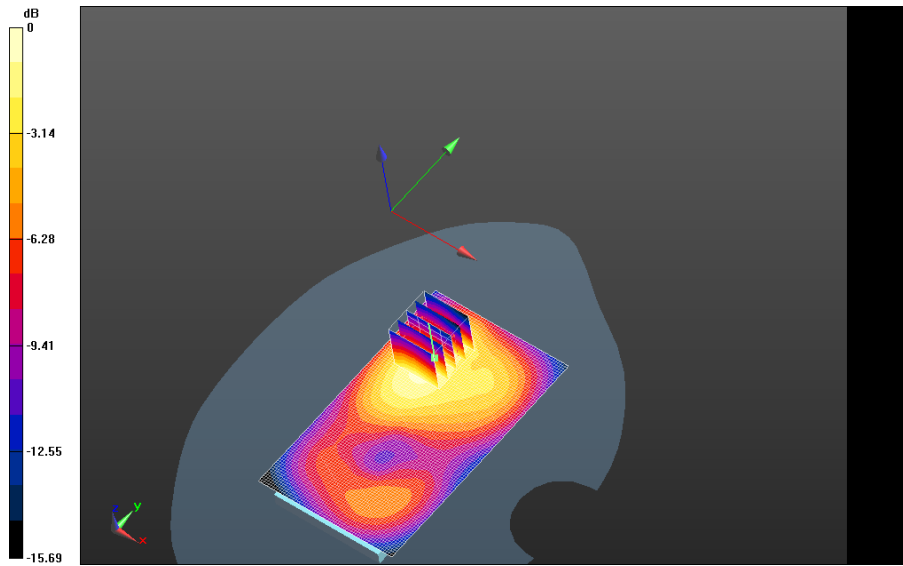
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.608 V/m; **Power Drift = 0.127 dB**

**Averaged SAR: SAR(1g) = 0.626 W/kg; SAR(10g) = 0.379 W/kg**

Maximum value of SAR (interpolated) = 1.02 W/kg

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



0 dB = 0.746 W/kg = -1.27 dBW/kg

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

Date: 7/8/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - UMTS II**

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.524$  S/m;  $\epsilon_r = 50.997$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - UMTS II/10mm Device Back -**

**UMTS\_II\_chan9400\_amb\_temp\_23.0C\_liq\_temp\_22.4C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 12.928 V/m; **Power Drift = 0.049 dB**

#### **Mobile Hot Spot MSL - UMTS II/10mm Device Back -**

**UMTS\_II\_chan9400\_amb\_temp\_23.0C\_liq\_temp\_22.4C/Zoom Scan (26x26x36)/Cube 0:**

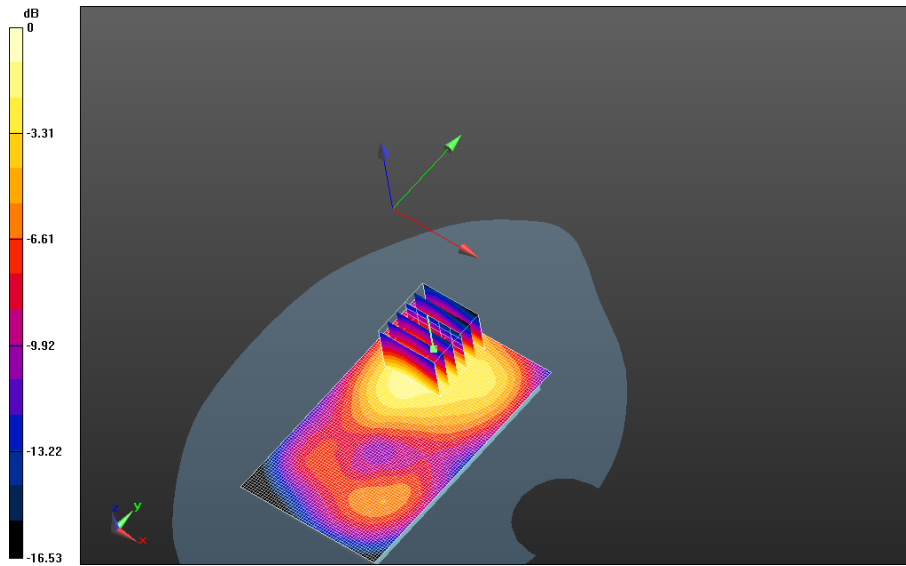
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 12.928 V/m; **Power Drift = 0.049 dB**

**Averaged SAR: SAR(1g) = 0.790 W/kg; SAR(10g) = 0.467 W/kg**

Maximum value of SAR (interpolated) = 1.32 W/kg

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



0 dB = 0.950 W/kg = -0.22 dBW/kg

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

Date: 8/15/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - UMTS II Extra**

Communication System: WCDMA FDD II; Communication System Band: UMTS FDD II; Frequency: 1852.4 MHz

Medium Parameters used:  $f=1852.4$  MHz;  $\sigma = 1.502$  S/m;  $\epsilon_r = 51.051$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - UMTS II Extra/10mm Device Back -**

**UMTS\_II\_chan9538\_amb\_temp\_23.1C\_liq\_temp\_22.4C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.779 W/kg

#### **Mobile Hot Spot MSL - UMTS II Extra/10mm Device Back -**

**UMTS\_II\_chan9538\_amb\_temp\_23.1C\_liq\_temp\_22.4C/Zoom Scan (26x26x36)/Cube 0:**

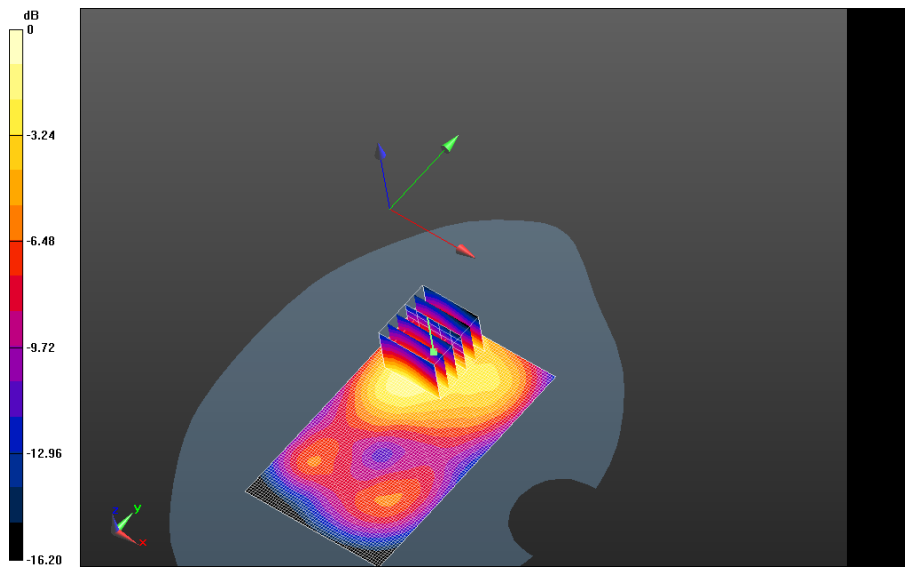
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.938 V/m; **Power Drift = -0.100 dB**

**Averaged SAR: SAR(1g) = 0.680 W/kg; SAR(10g) = 0.405 W/kg**

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

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



0 dB = 0.746 W/kg = -1.27 dBW/kg

|                                                                                   |                                                                                               |                                                 |                               |                             |                       |
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Date: 7/8/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - UMTS II**

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.524$  S/m;  $\epsilon_r = 50.997$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - UMTS II/10mm Device Front -**

**UMTS\_II\_chan9400\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.459 V/m; **Power Drift = 0.00202 dB**

#### **Mobile Hot Spot MSL - UMTS II/10mm Device Front -**

**UMTS\_II\_chan9400\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Zoom Scan (26x26x36)/Cube 0:**

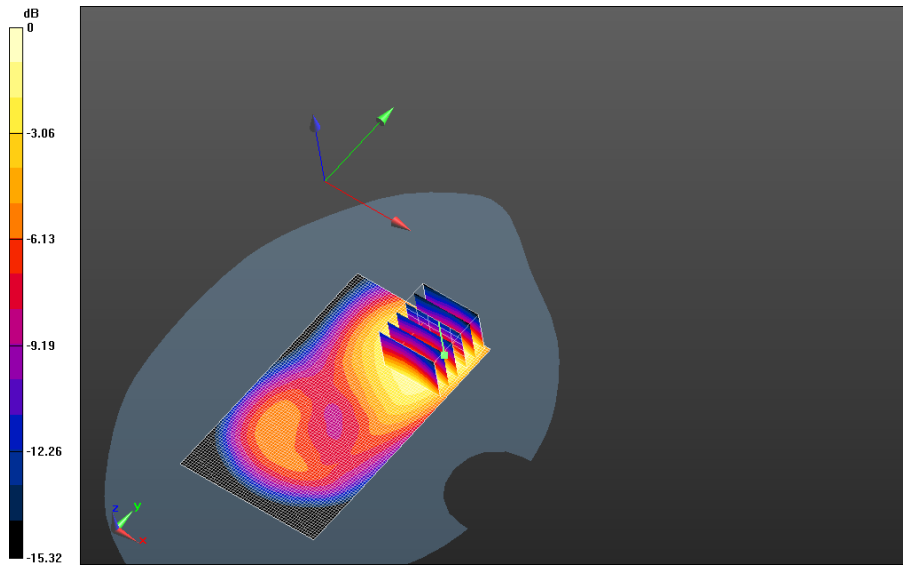
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 10.459 V/m; **Power Drift = 0.00202 dB**

**Averaged SAR: SAR(1g) = 0.740 W/kg; SAR(10g) = 0.447 W/kg**

Maximum value of SAR (interpolated) = 1.22 W/kg

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



0 dB = 0.950 W/kg = -0.22 dBW/kg

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

Date: 7/8/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - UMTS II**

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.524$  S/m;  $\epsilon_r = 50.997$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - UMTS II/10mm Device Left -**

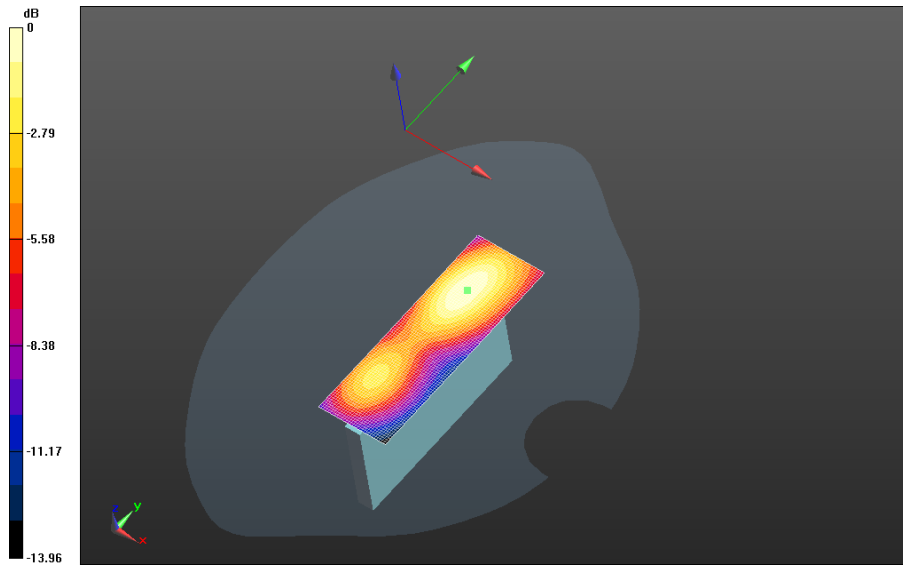
**UMTS\_II\_chan9400\_amb\_temp\_24.1C\_liq\_temp\_22.5C/Area Scan (31x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 10.727 V/m; **Power Drift = 0.024 dB**

**Fast SAR: SAR(1g) = 0.484 W/kg; SAR(10g) = 0.274 W/kg**

Maximum value of SAR (interpolated) = 0.594 W/kg

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



0 dB = 0.890 W/kg = -0.51 dBW/kg

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

Date: 7/8/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - UMTS II**

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.524$  S/m;  $\epsilon_r = 50.997$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - UMTS II/10mm Device Right -**

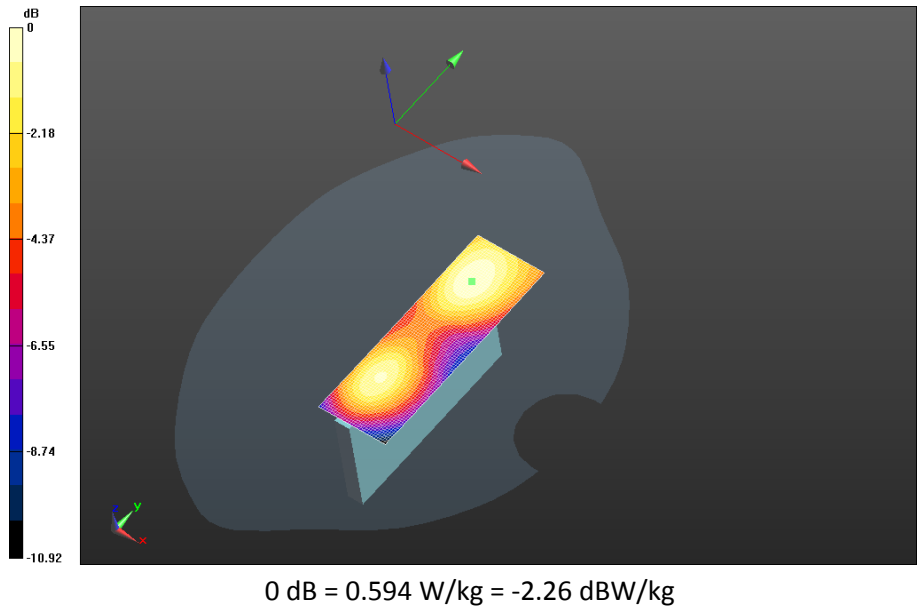
**UMTS\_II\_chan9400\_amb\_temp\_24.1C\_liq\_temp\_22.5C/Area Scan (31x91x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 6.910 V/m; **Power Drift = 0.033 dB**

**Fast SAR: SAR(1g) = 0.122 W/kg; SAR(10g) = 0.0733 W/kg**

Maximum value of SAR (interpolated) = 0.147 W/kg

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



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

Date: 7/8/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - UMTS II**

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

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.524$  S/m;  $\epsilon_r = 50.997$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

Phantom section: Flat Section

#### **DASY Configuration:**

- Probe: ES3DV3 - SN3225; ConvF: (5.04,5.04,5.04); Calibrated: 1/10/2013;
- Sensor-Surface: 3 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - UMTS II/10mm Device Bottom -**

**UMTS\_II\_chan9400\_amb\_temp\_24.1C\_liq\_temp\_22.5C/Area Scan (31x71x1):** Interpolated

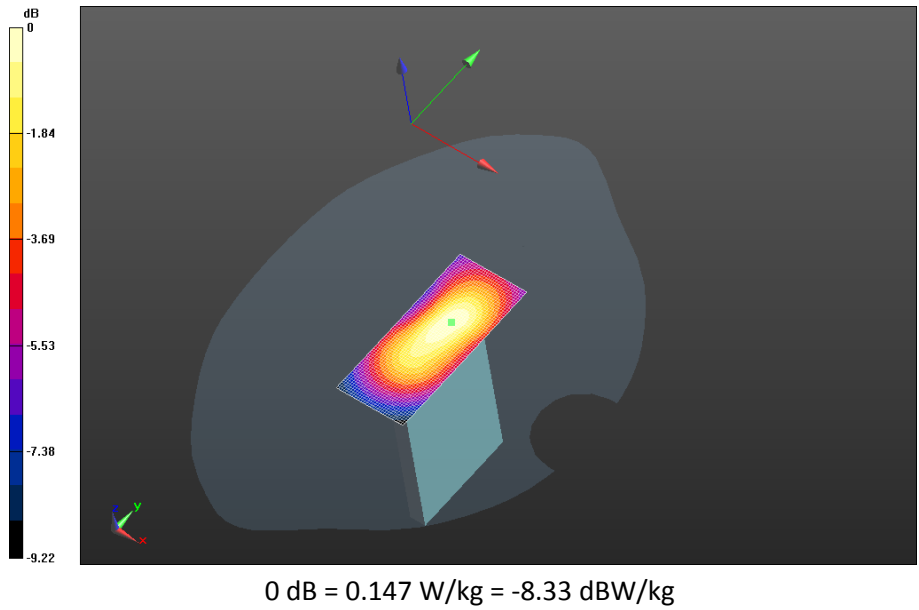
grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 14.277 V/m; **Power Drift = -0.077 dB**

**Fast SAR: SAR(1g) = 0.265 W/kg; SAR(10g) = 0.154 W/kg**

Maximum value of SAR (interpolated) = 0.327 W/kg

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



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

802.11b

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

Date: 7/24/2013

Test Lab: RIM Testing Services

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

### **Configuration: Mobile Hot Spot MSL - 802.11b**

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

Medium Parameters used:  $f=2437$  MHz;  $\sigma = 2.022$  S/m;  $\epsilon_r = 50.993$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Mobile Hot Spot MSL - 802.11b/10mm Device Back -**

**802.11b\_chan6\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Area Scan (81x131x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm

Reference Value = 6.575 V/m; **Power Drift = 0.102 dB**

#### **Mobile Hot Spot MSL - 802.11b/10mm Device Back -**

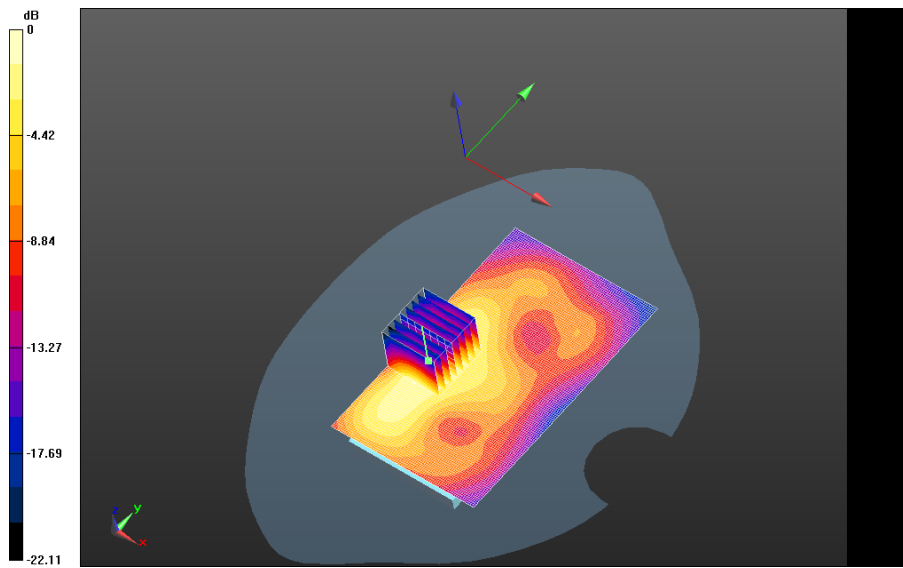
**802.11b\_chan6\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Zoom Scan (36x36x36)/Cube 0:**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 9.801 V/m; **Power Drift = 0.102 dB**

**Averaged SAR: SAR(1g) = 0.165 W/kg; SAR(10g) = 0.0836 W/kg**

Maximum value of SAR (interpolated) = 0.360 W/kg

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



0 dB = 0.219 W/kg = -6.60 dBW/kg

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

**Mobile Hot Spot MSL - 802.11b/10mm Device Front -**

**802.11b\_chan6\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Area Scan (81x131x1):** Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 3.380 V/m; **Power Drift = 0.182 dB**

**Mobile Hot Spot MSL - 802.11b/10mm Device Front -**

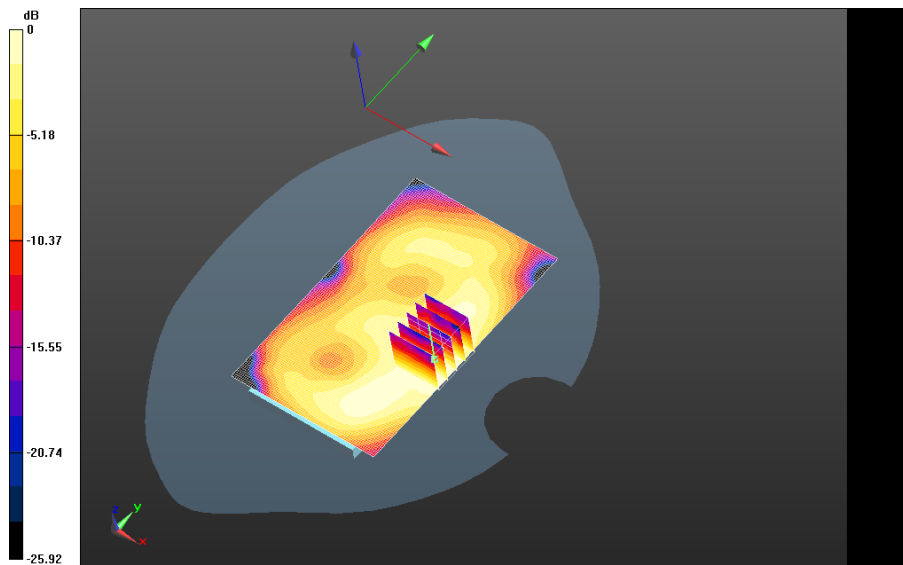
**802.11b\_chan6\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Zoom Scan (21x21x36)/Cube 0:**

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

Reference Value = 3.380 V/m; **Power Drift = 0.182 dB**

**Averaged SAR: SAR(1g) = 0.0386 W/kg; SAR(10g) = 0.0204 W/kg**

Maximum value of SAR (interpolated) = 0.0782 W/kg



0 dB = 0.219 W/kg = -6.60 dBW/kg

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

**Mobile Hot Spot MSL - 802.11b/10mm Device Left -**

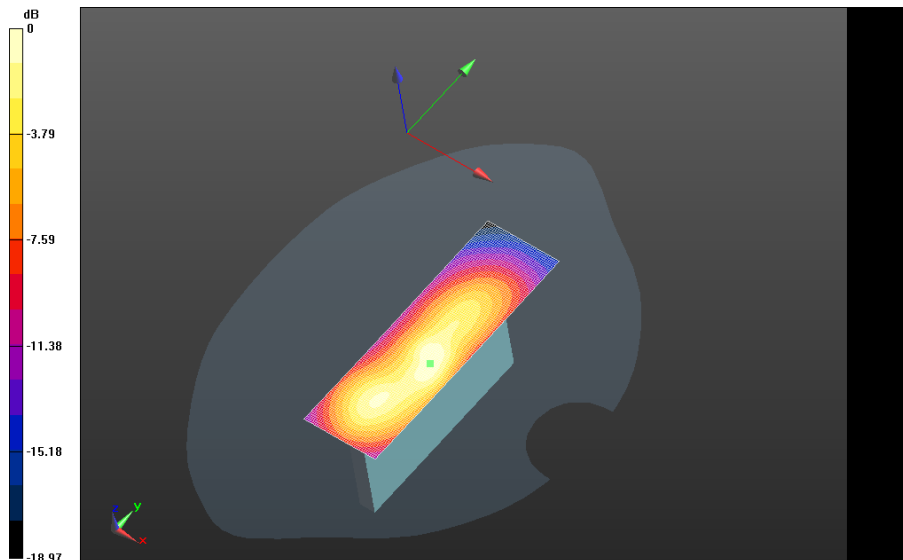
**802.11b\_chan6\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Area Scan (41x131x1): Interpolated grid:**

dx=1.200 mm, dy=1.200 mm

Reference Value = 9.845 V/m; **Power Drift = 0.024 dB**

**Fast SAR: SAR(1g) = 0.154 W/kg; SAR(10g) = 0.0786 W/kg**

Maximum value of SAR (interpolated) = 0.205 W/kg



0 dB = 0.0422 W/kg = -13.75 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                             |
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**Mobile Hot Spot MSL - 802.11b/10mm Device Right -**

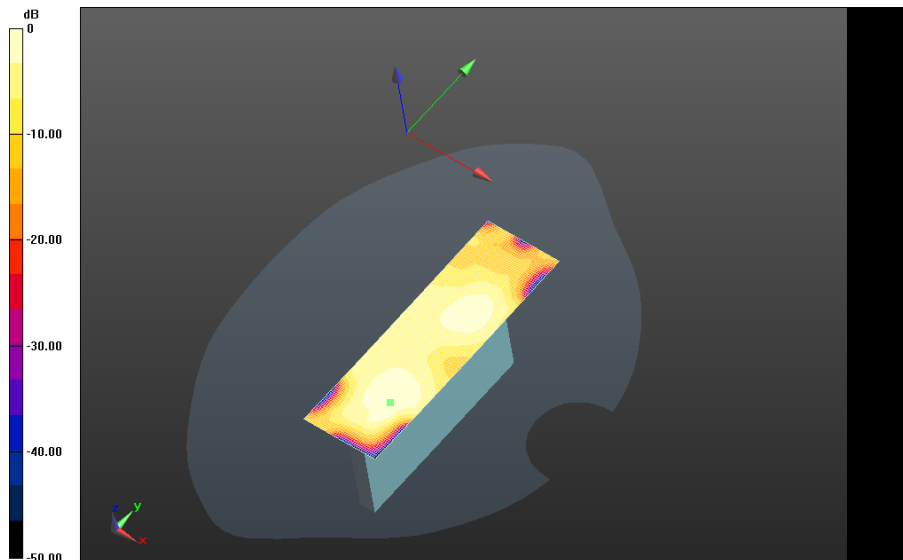
**802.11b\_chan6\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Area Scan (41x131x1): Interpolated grid:**

dx=1.200 mm, dy=1.200 mm

Reference Value = 1.443 V/m; **Power Drift = -0.097 dB**

**Fast SAR: SAR(1g) = 0.0132 W/kg; SAR(10g) = 0.00665 W/kg**

Maximum value of SAR (interpolated) = 0.0174 W/kg



0 dB = 0.205 W/kg = -6.88 dBW/kg

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

**Mobile Hot Spot MSL - 802.11b/10mm Device Bottom -**

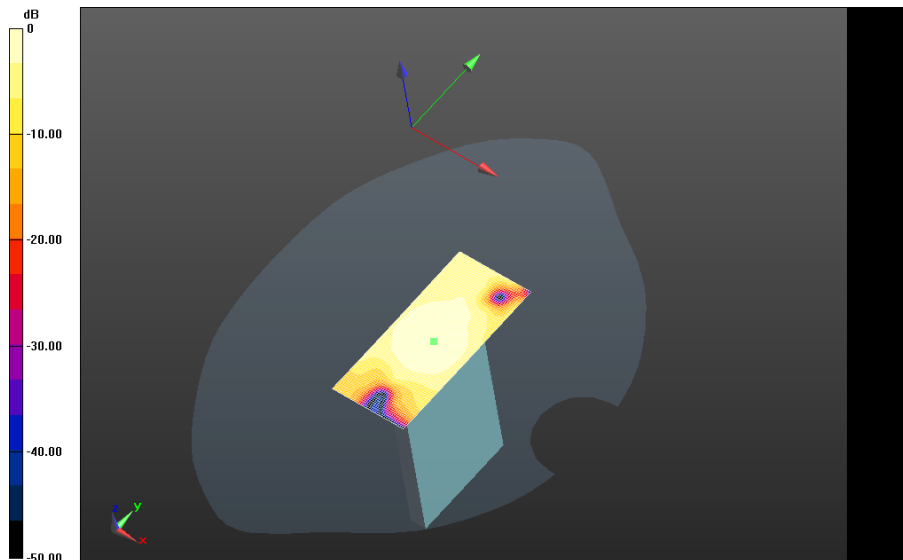
**802.11b\_chan6\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Area Scan (41x91x1):** Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 2.523 V/m; **Power Drift = -0.101 dB**

**Fast SAR: SAR(1g) = 0.0101 W/kg; SAR(10g) = 0.00556 W/kg**

Maximum value of SAR (interpolated) = 0.0125 W/kg



0 dB = 0.0174 W/kg = -17.59 dBW/kg

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

**Mobile Hot Spot MSL - 802.11b/10mm Device Top -**

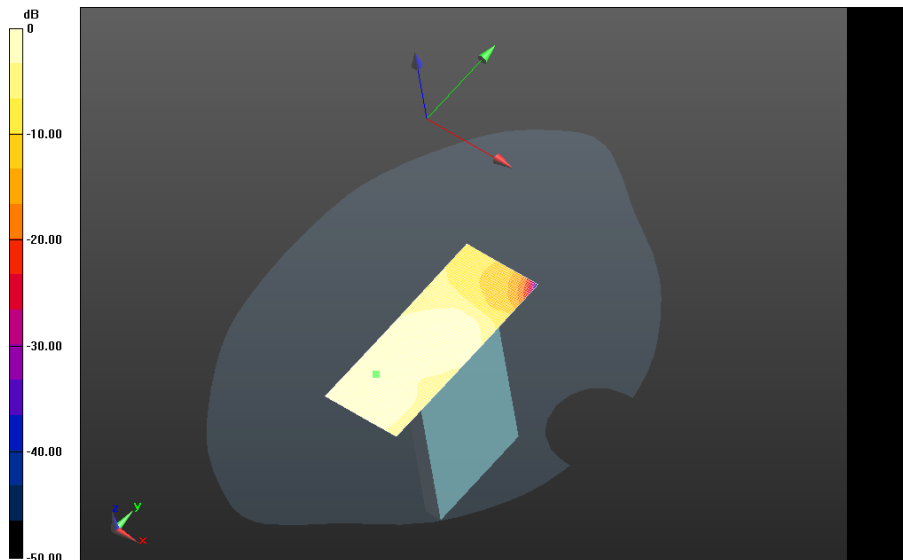
**802.11b\_chan6\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Area Scan (41x101x1):** Interpolated grid:

dx=1.200 mm, dy=1.200 mm

Reference Value = 2.726 V/m; **Power Drift = 0.143 dB**

**Fast SAR: SAR(1g) = 0.0124 W/kg; SAR(10g) = 0.00725 W/kg**

Maximum value of SAR (interpolated) = 0.0152 W/kg



0 dB = 0.0125 W/kg = -19.03 dBW/kg

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

# Bluetooth

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

Date: 7/19/2013

Test Lab: RIM Testing Services

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

### **Configuration: Body Worn MSL - Bluetooth**

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

Medium Parameters used:  $f=2441$  MHz;  $\sigma = 1.998$  S/m;  $\epsilon_r = 50.773$ ;  $\rho = 1.000$  g/cm<sup>3</sup>

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: DAE4 Sn881; Calibrated: 1/14/2013
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- DASY52 52.8.6(1115); SEMCAD X Version 14.6.9 (7117)

#### **Body Worn MSL - Bluetooth/15mm Device Back -**

**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) = 0.00707 W/kg

#### **Body Worn MSL - Bluetooth/15mm Device Back -**

**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 = 1.937 V/m; **Power Drift = -0.151 dB**

**Averaged SAR: SAR(1g) = 0.00543 W/kg; SAR(10g) = 0.00249 W/kg**

Maximum value of SAR (interpolated) = 0.0106 W/kg

#### **Body Worn MSL - Bluetooth/15mm Device Back -**

**Bluetooth\_chan39\_amb\_temp\_23.5C\_liq\_temp\_22.4C/Zoom Scan 2 (31x46x36)/Cube 0:**

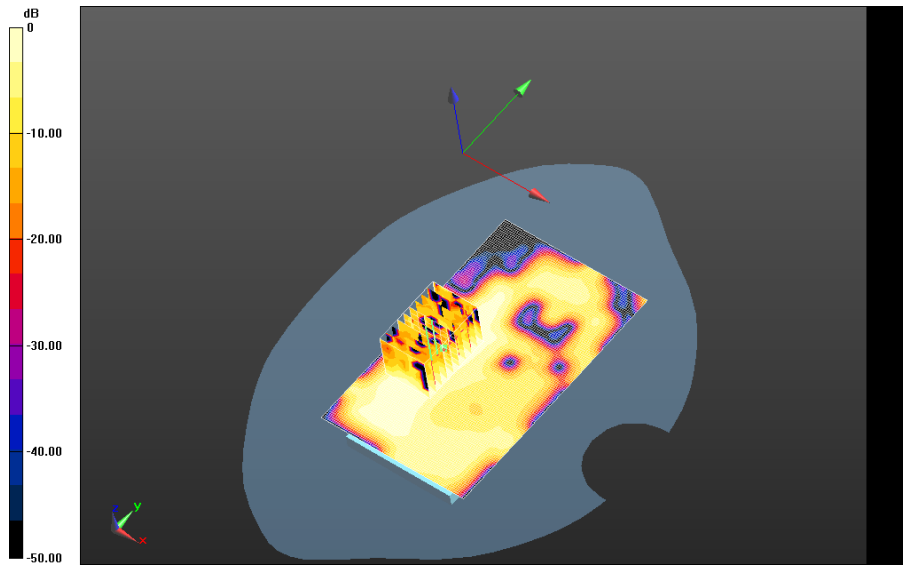
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 1.937 V/m; **Power Drift = 0.012 dB**

**Averaged SAR: SAR(1g) = 0.00540 W/kg; SAR(10g) = 0.00243 W/kg**

Maximum value of SAR (interpolated) = 0.0121 W/kg

|                                                                                   |                                                                                               |                                                 |                               |                             |
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0 dB = 0.00734 W/kg = -21.34 dBW/kg