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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>1(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                   |

## APPENDIX C2: SAR DISTRIBUTION PLOTS FOR HOT SPOT CONFIGURATION

|                                                                                   |                                                                                               |                                                     |                               |                      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------|----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                     |                               | Page<br><b>2(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39<br/>Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                   |

# DTM/GSM 850 (RGB141LW)

|                                                                                   |                                                                                               |                                                 |                               |                      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>3(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                   |

Date: 6/28/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7671**

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

Communication System: GPRS 850 (3 slots); Communication System Band: GPRS 850 ( 3 slots);

Frequency: 836.8 MHz

Medium Parameters used:  $f=836.8$  MHz;  $\sigma = 0.964$  S/m;  $\epsilon_r = 53.124$ ;  $\rho = 1.000$  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 - 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

Maximum value of SAR (interpolated) = 0.825 W/kg

#### **Mobile Hot Spot MSL - GPRS 850/10mm Device Back - GPRS850\_3-**

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

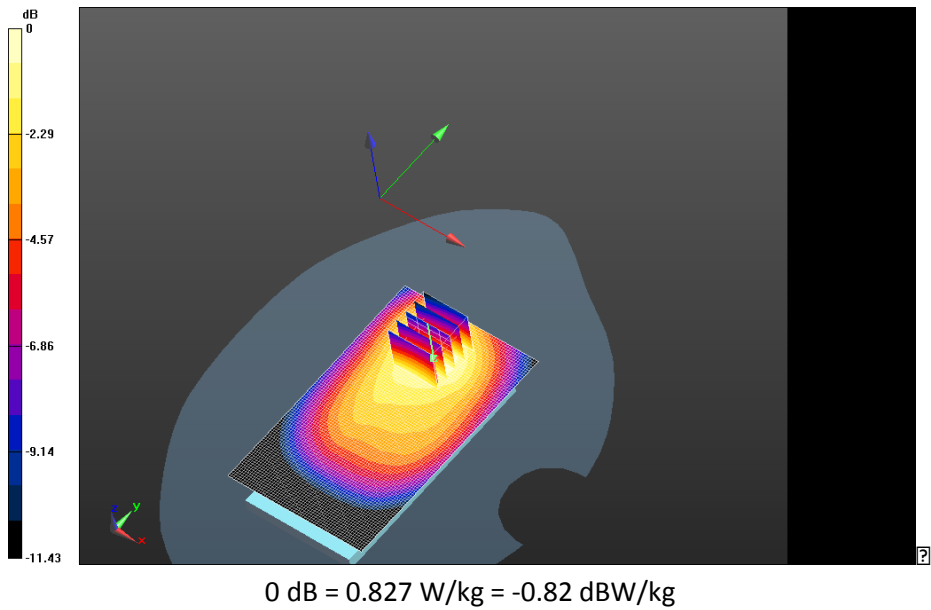
Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm,  $dz=1.000$  mm

Reference Value = 22.307 V/m; **Power Drift = -0.036 dB**

**Averaged SAR: SAR(1g) = 0.725 W/kg; SAR(10g) = 0.502 W/kg**

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

|                                                                                   |                                                                                               |                                                 |                               |                      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>4(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                   |



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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>5(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                   |

# UMTS Band V (RGB141LW)

|                                                                                  |                                                                                               |                                                 |                               |                      |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>6(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                   |

Date: 6/28/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7671**

### **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;  $\sigma = 0.963$  S/m;  $\epsilon_r = 53.128$ ;  $\rho = 1.000$  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

Maximum value of SAR (interpolated) = 0.627 W/kg

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

**V\_chan4182\_amb\_temp\_23.5C\_liq\_temp\_21.8C/Zoom Scan (26x26x36)/Cube 0:** Interpolated

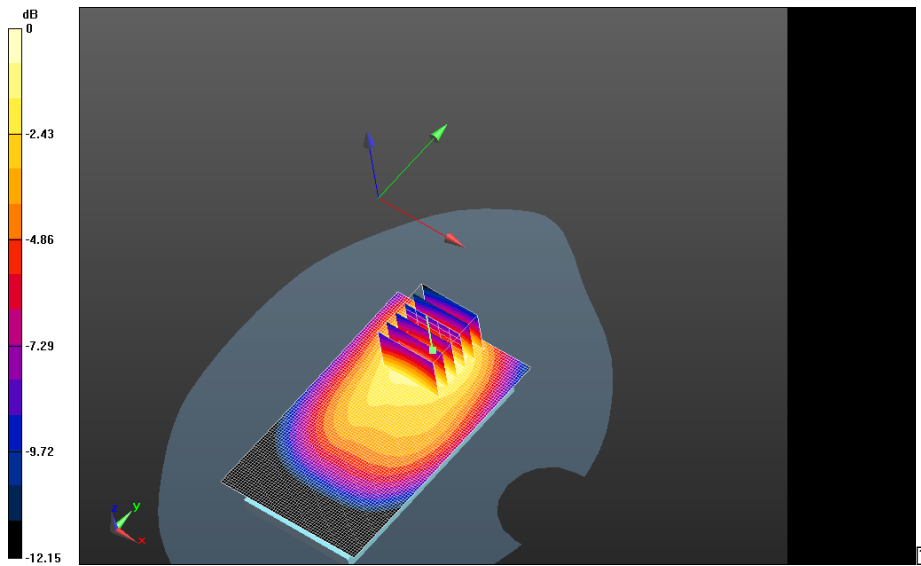
grid:  $dx=1.500$  mm,  $dy=1.500$  mm,  $dz=1.000$  mm

Reference Value = 19.362 V/m; **Power Drift = 0.00745 dB**

**Averaged SAR: SAR(1g) = 0.556 W/kg; SAR(10g) = 0.383 W/kg**

Maximum value of SAR (interpolated) = 0.788 W/kg

|                                                                                  |                                                                                               |                                                 |                               |                      |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>7(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                   |



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

|                                                                                   |                                                                                               |                                                 |                               |                      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>8(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                   |

# CDMA 800 (RGB141LW)

|                                                                                   |                                                                                               |                                                 |                               |                      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>9(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                   |

Date: 6/28/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA**

### **Configuration: Mobile Hot Spot MSL - CDMA 800 BC10**

Communication System: CDMA 800; Communication System Band: CDMA 2000 BC 10;

Frequency: 817.9 MHz

Medium Parameters used:  $f=817.9$  MHz;  $\sigma = 0.943$  S/m;  $\epsilon_r = 53.307$ ;  $\rho = 1.000$  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 - CDMA 800 BC10/10mm Device Back - CDMA 800**

**BC10\_chan476\_amb\_temp\_23.2C\_liq\_temp\_22.3C/Area Scan (61x101x1):** Interpolated grid:

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

Reference Value = 23.098 V/m; **Power Drift = -0.164 dB**

#### **Mobile Hot Spot MSL - CDMA 800 BC10/10mm Device Back - CDMA 800**

**BC10\_chan476\_amb\_temp\_23.2C\_liq\_temp\_22.3C/Zoom Scan (26x26x36)/Cube 0:**

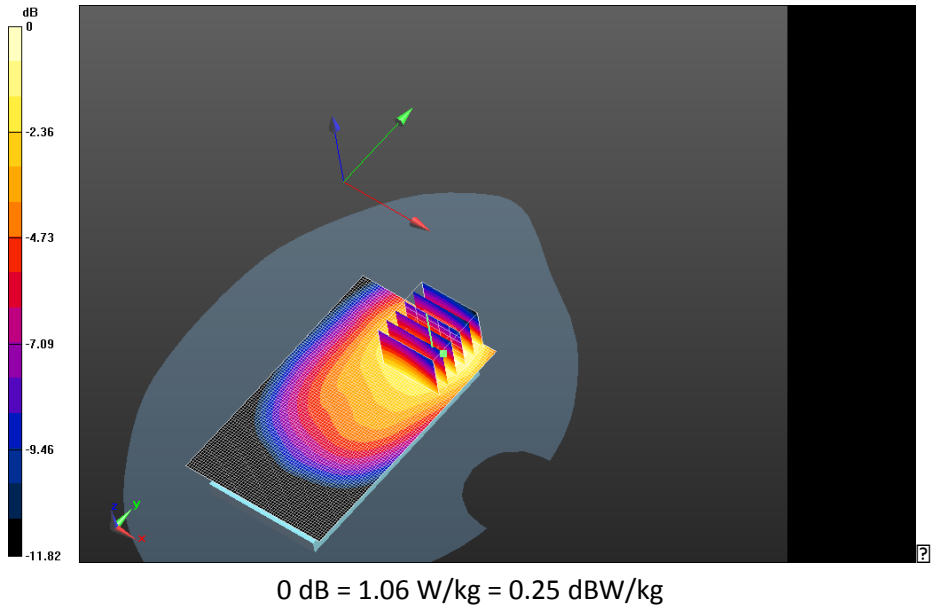
Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm,  $dz=1.000$  mm

Reference Value = 23.098 V/m; **Power Drift = -0.164 dB**

**Averaged SAR: SAR(1g) = 0.939 W/kg; SAR(10g) = 0.650 W/kg**

Maximum value of SAR (interpolated) = 1.30 W/kg

|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>10(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |



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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>11(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 800 BC10/10mm Device Back - CDMA 800**

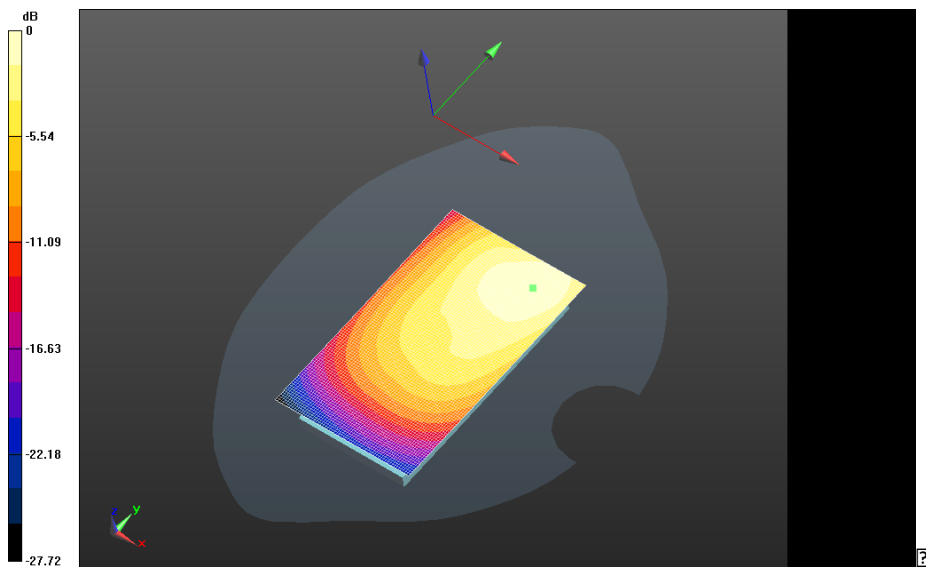
**BC10\_chan580\_amb\_temp\_23.2C\_liq\_temp\_22.4C/Area Scan (61x101x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 22.855 V/m; **Power Drift = -0.191 dB**

**Fast SAR: SAR(1g) = 0.907 W/kg; SAR(10g) = 0.615 W/kg**

Maximum value of SAR (interpolated) = 1.04 W/kg



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

|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>12(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 800 BC10/10mm Device Back - CDMA 800**

**BC10\_chan684\_amb\_temp\_23.0C\_liq\_temp\_22.6/Area Scan (61x101x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 23.287 V/m; **Power Drift = 0.031 dB**

**Mobile Hot Spot MSL - CDMA 800 BC10/10mm Device Back - CDMA 800**

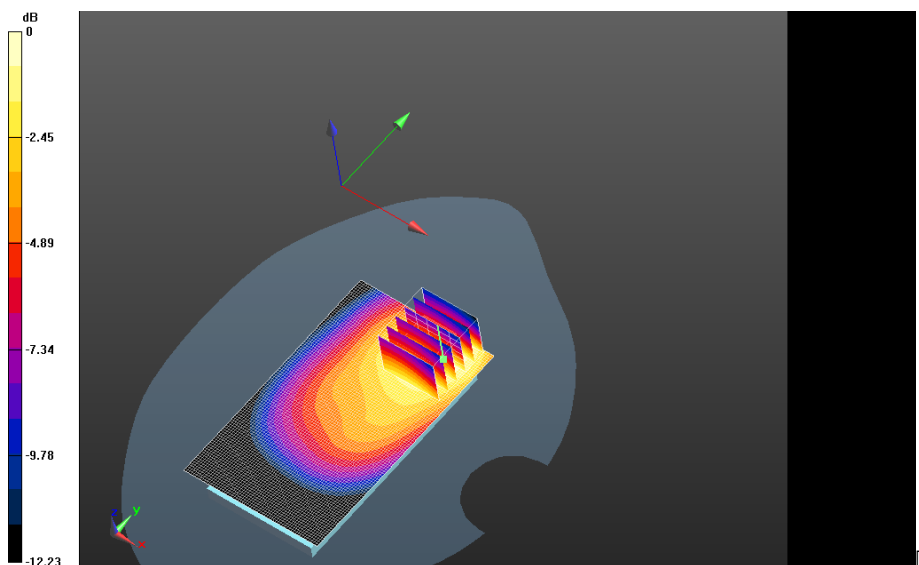
**BC10\_chan684\_amb\_temp\_23.0C\_liq\_temp\_22.6/Zoom Scan (26x26x36)/Cube 0:** Interpolated

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

Reference Value = 23.287 V/m; **Power Drift = 0.031 dB**

**Averaged SAR: SAR(1g) = 0.953 W/kg; SAR(10g) = 0.662 W/kg**

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



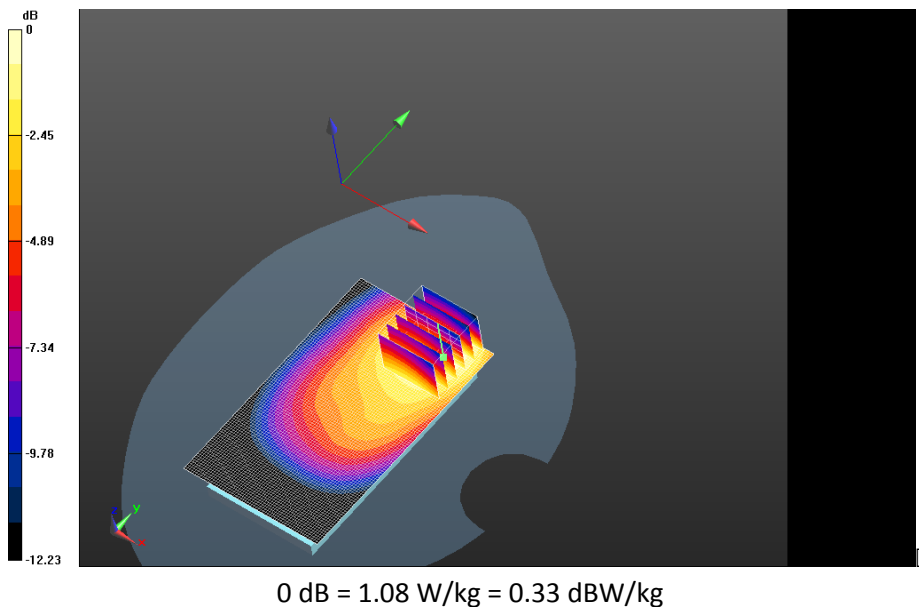
0 dB = 1.04 W/kg = 0.17 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>13(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 800 BC10/10mm Device Back - CDMA 800**  
**BC10\_chan684\_2nd\_scan\_amb\_temp\_22.7C\_liq\_temp\_22.3/Area Scan (61x101x1):**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 23.309 V/m; **Power Drift = 0.032 dB**

**Mobile Hot Spot MSL - CDMA 800 BC10/10mm Device Back - CDMA 800**  
**BC10\_chan684\_2nd\_scan\_amb\_temp\_22.7C\_liq\_temp\_22.3/Zoom Scan (26x26x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 23.309 V/m; **Power Drift = 0.032 dB**

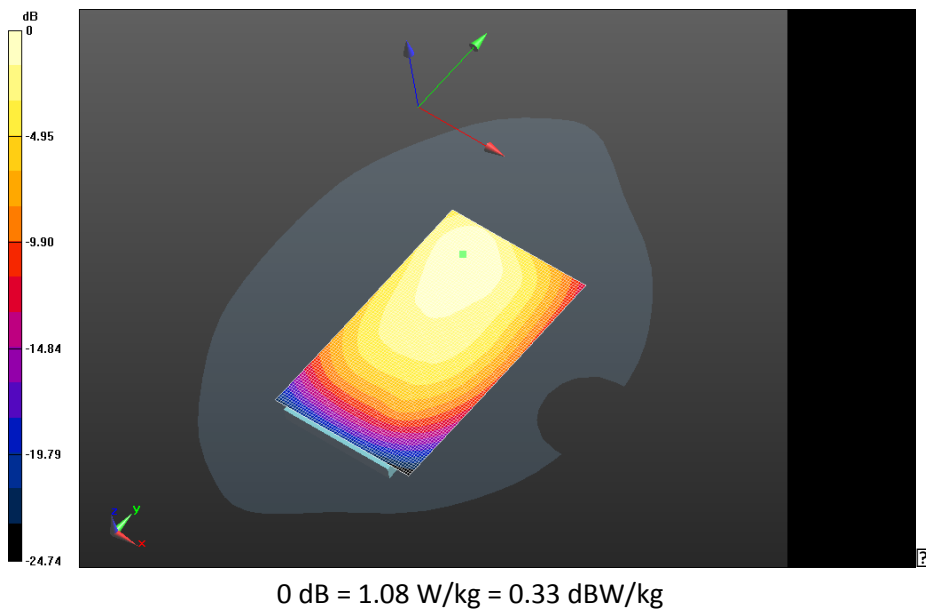
**Averaged SAR: SAR(1g) = 0.952 W/kg; SAR(10g) = 0.661 W/kg**  
Maximum value of SAR (interpolated) = 1.32 W/kg



|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>14(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 800 BC10/10mm Device Front - CDMA 800**  
**BC10\_chan580\_amb\_temp\_23.0C\_liq\_temp\_22.2C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 22.628 V/m; **Power Drift = 0.037 dB**

**Fast SAR: SAR(1g) = 0.608 W/kg; SAR(10g) = 0.417 W/kg**  
Maximum value of SAR (interpolated) = 0.696 W/kg



|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>15(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 800 BC10/10mm Device Left - CDMA 800**

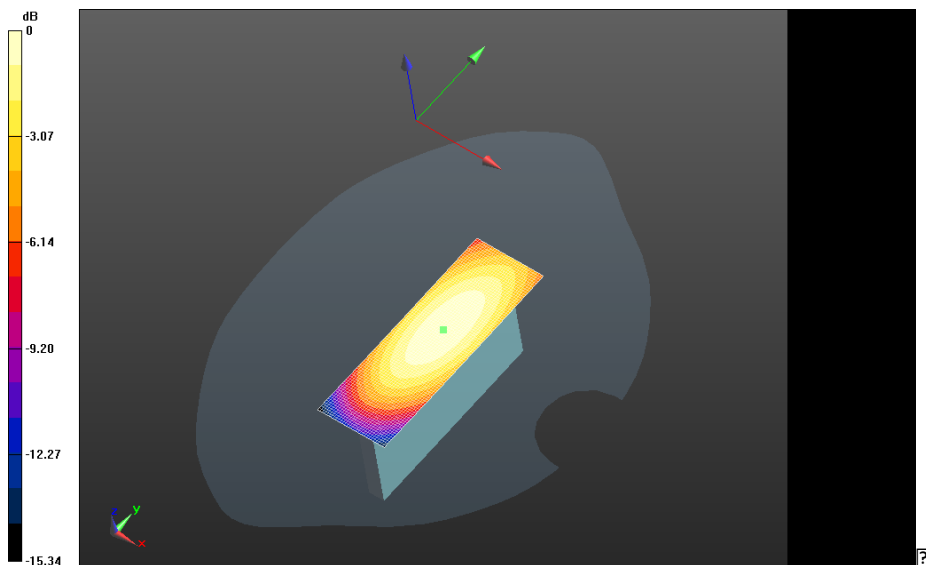
**BC10\_chan580\_amb\_temp\_23.0C\_liq\_temp\_22.2C/Area Scan (31x91x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 19.385 V/m; **Power Drift = 0.029 dB**

**Fast SAR: SAR(1g) = 0.293 W/kg; SAR(10g) = 0.200 W/kg**

Maximum value of SAR (interpolated) = 0.333 W/kg

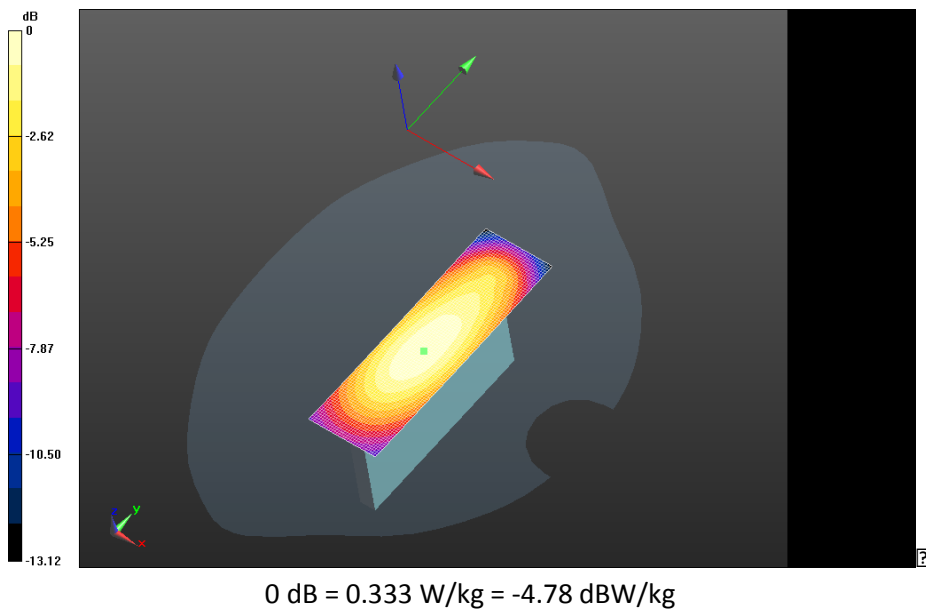


0 dB = 0.696 W/kg = -1.57 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>16(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 800 BC10/10mm Device Right - CDMA 800**  
**BC10\_chan580\_amb\_temp\_23.0C\_liq\_temp\_22.2C/Area Scan (31x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 22.366 V/m; **Power Drift = 0.086 dB**

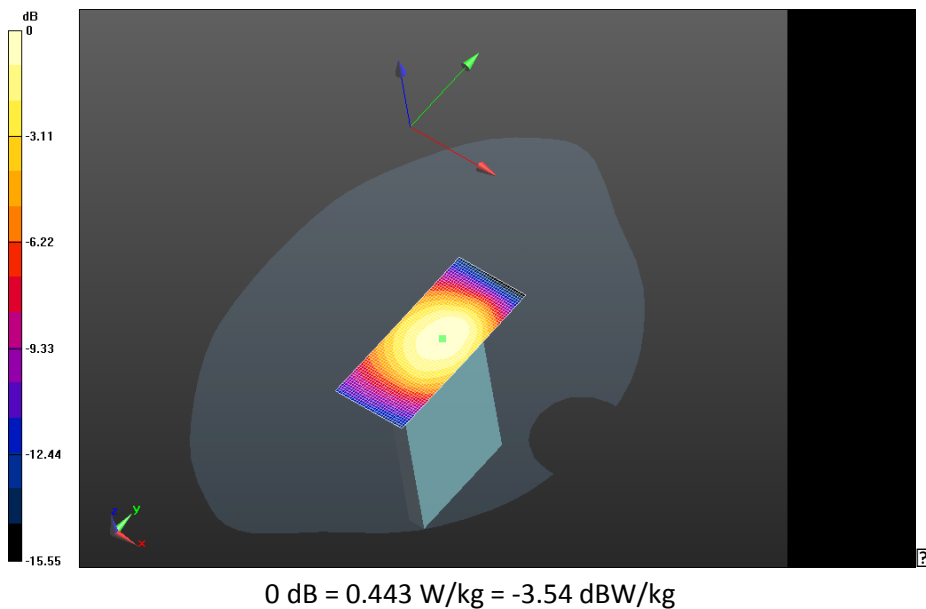
**Fast SAR: SAR(1g) = 0.389 W/kg; SAR(10g) = 0.264 W/kg**  
Maximum value of SAR (interpolated) = 0.443 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>17(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 800 BC10/10mm Device Bottom - CDMA 800**  
**BC10\_chan580\_amb\_temp\_23.0C\_liq\_temp\_22.2C/Area Scan (31x71x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 22.608 V/m; **Power Drift = 0.092 dB**

**Fast SAR: SAR(1g) = 0.451 W/kg; SAR(10g) = 0.301 W/kg**  
Maximum value of SAR (interpolated) = 0.518 W/kg



|                                                                                   |                                                                                               |                                                     |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                     |                               | Page<br><b>18(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39<br/>Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

# CDMA 850 (RGB141LW)

|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>19(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

Date: 6/27/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA**

### **Configuration: Mobile Hot Spot MSL - CDMA 850 BC0**

Communication System: CDMA 850; Communication System Band: CDMA 2000 Cellular;

Frequency: 824.7 MHz

Medium Parameters used:  $f=825$  MHz;  $\sigma = 0.950$  S/m;  $\epsilon_r = 53.215$ ;  $\rho = 1.000$  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 - CDMA 850 BC0/10mm Device Back - CDMA 850**

**BC0\_chan1013\_amb\_temp\_23.3C\_liq\_temp\_22.2C/Area Scan (61x101x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 24.048 V/m; **Power Drift = 0.113 dB**

#### **Mobile Hot Spot MSL - CDMA 850 BC0/10mm Device Back - CDMA 850**

**BC0\_chan1013\_amb\_temp\_23.3C\_liq\_temp\_22.2C/Zoom Scan (26x26x36)/Cube 0:**

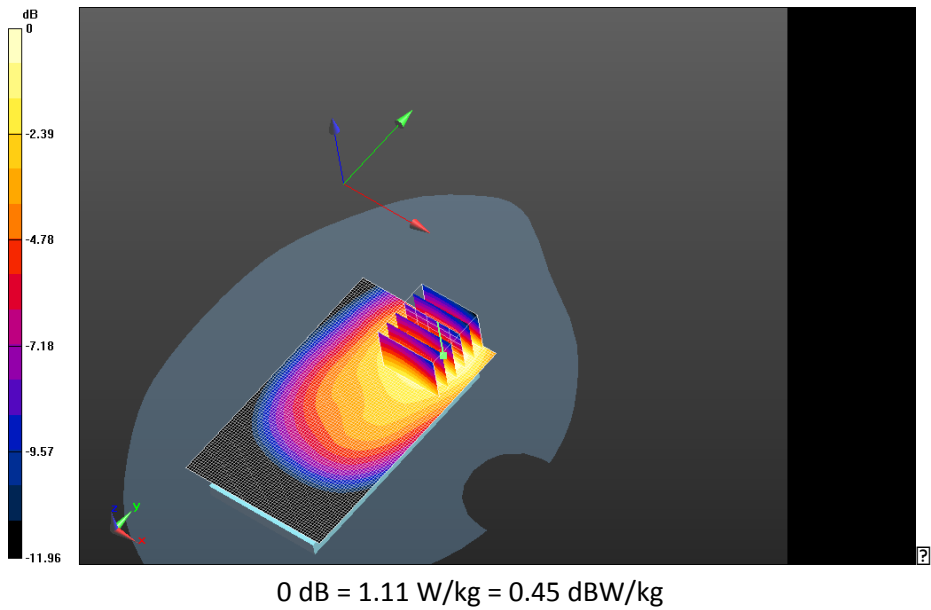
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 24.048 V/m; **Power Drift = 0.113 dB**

**Averaged SAR: SAR(1g) = 0.980 W/kg; SAR(10g) = 0.684 W/kg**

Maximum value of SAR (interpolated) = 1.35 W/kg

|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>20(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

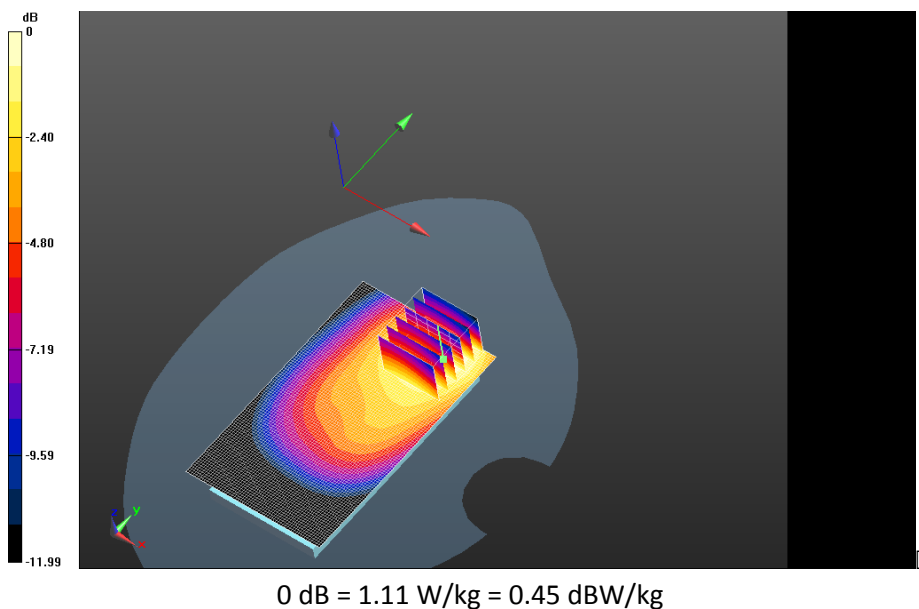


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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>21(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 850 BC0/10mm Device Back - CDMA 850**  
**BC0\_chan1013\_2nd\_Scan\_amb\_temp\_23.2C\_liq\_temp\_22.4C/Area Scan (61x101x1):**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 24.252 V/m; **Power Drift = 0.073 dB**

**Mobile Hot Spot MSL - CDMA 850 BC0/10mm Device Back - CDMA 850**  
**BC0\_chan1013\_2nd\_Scan\_amb\_temp\_23.2C\_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 = 24.252 V/m; **Power Drift = 0.073 dB**

**Averaged SAR: SAR(1g) = 0.998 W/kg; SAR(10g) = 0.693 W/kg**  
Maximum value of SAR (interpolated) = 1.38 W/kg



|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>22(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 850 BC0/10mm Device Back - CDMA 850**

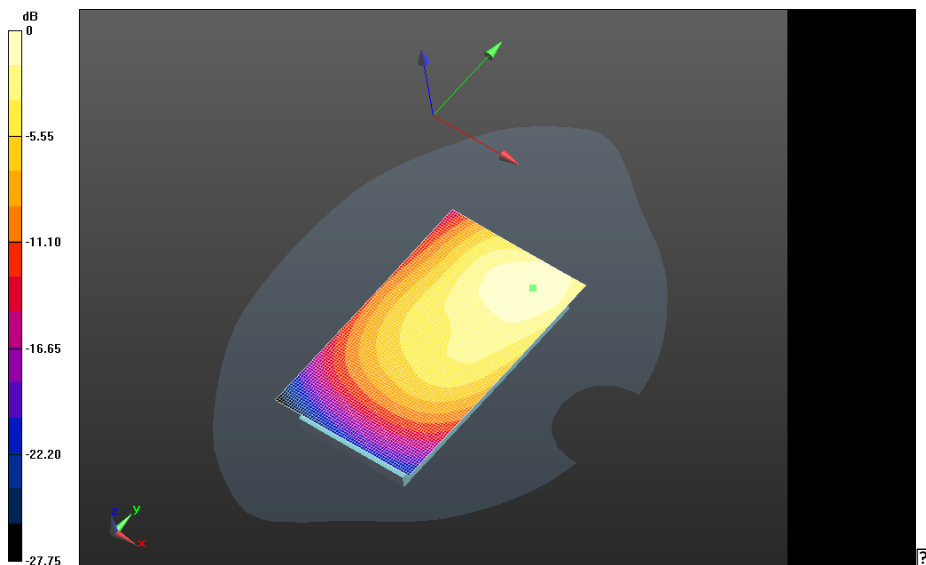
**BC0\_chan384\_amb\_temp\_23.3C\_liq\_temp\_22.1C/Area Scan (61x101x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 21.209 V/m; **Power Drift = 0.070 dB**

**Fast SAR: SAR(1g) = 0.820 W/kg; SAR(10g) = 0.555 W/kg**

Maximum value of SAR (interpolated) = 0.941 W/kg



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

|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>23(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 850 BC0/10mm Device Back - CDMA 850**

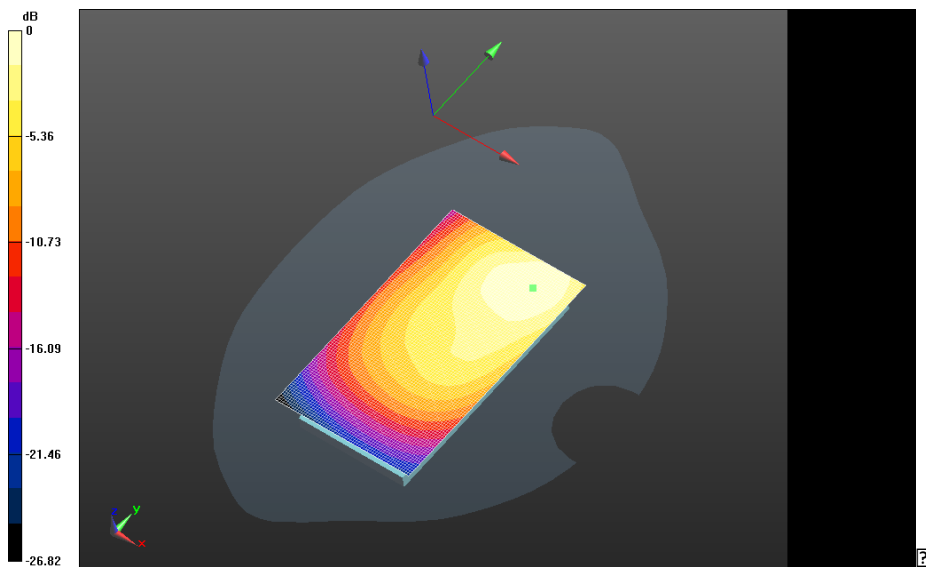
**BC0\_chan777\_amb\_temp\_23.0C\_liq\_temp\_22.0C/Area Scan (61x101x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 21.315 V/m; **Power Drift = 0.063 dB**

**Fast SAR: SAR(1g) = 0.858 W/kg; SAR(10g) = 0.579 W/kg**

Maximum value of SAR (interpolated) = 0.984 W/kg

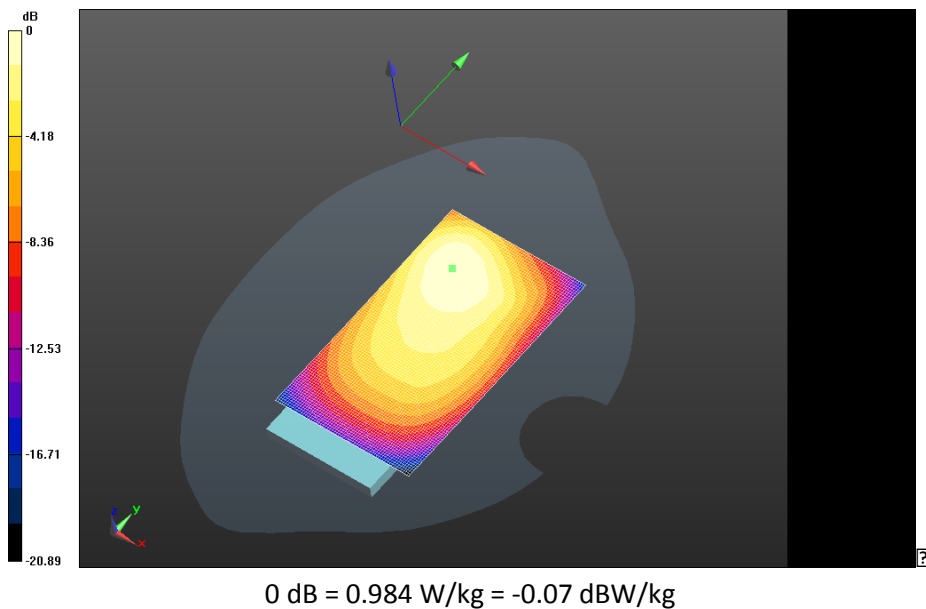


0 dB = 0.941 W/kg = -0.26 dBW/kg

|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>24(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 850 BC0/10mm Device Front - CDMA 850**  
**BC0\_chan384\_amb\_temp\_22.7C\_liq\_temp 22.3C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 21.433 V/m; **Power Drift = -0.092 dB**

**Fast SAR: SAR(1g) = 0.652 W/kg; SAR(10g) = 0.446 W/kg**  
Maximum value of SAR (interpolated) = 0.740 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>25(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 850 BC0/10mm Device Left - CDMA 850**

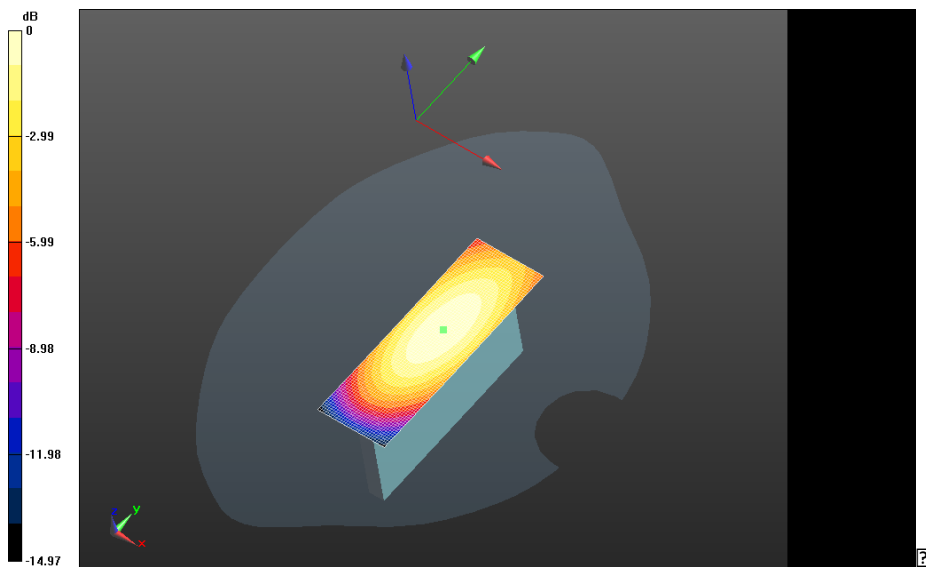
**BC0\_chan384\_amb\_temp\_23.5C\_liq\_temp\_22.2C/Area Scan (31x91x1): Interpolated grid:**

dx=1.500 mm, dy=1.500 mm

Reference Value = 18.359 V/m; **Power Drift = 0.00175 dB**

**Fast SAR: SAR(1g) = 0.268 W/kg; SAR(10g) = 0.182 W/kg**

Maximum value of SAR (interpolated) = 0.306 W/kg

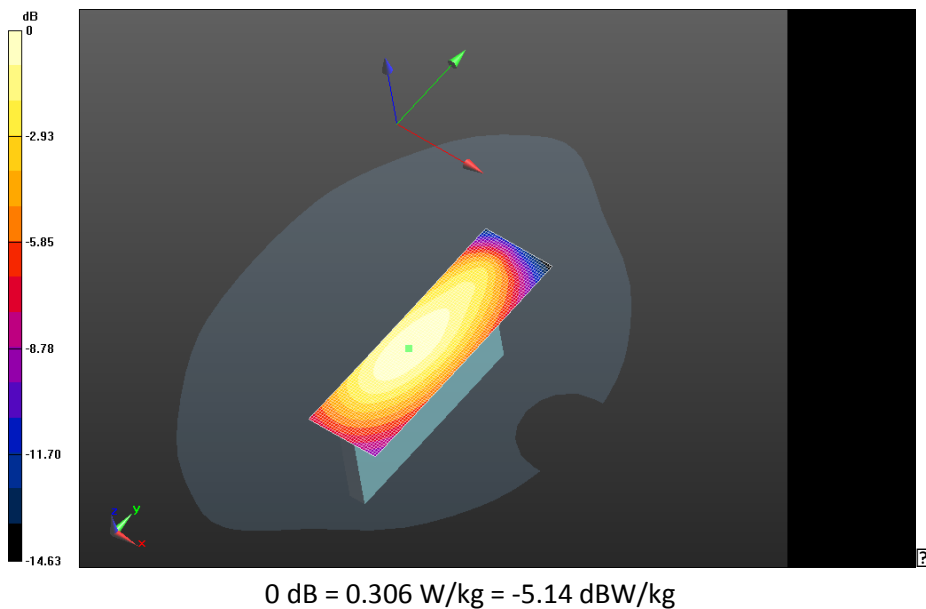


0 dB = 0.740 W/kg = -1.31 dBW/kg

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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>26(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 850 BC0/10mm Device Right - CDMA 850**  
**BC0\_chan384\_amb\_temp\_23.5C\_liq\_temp\_22.2C/Area Scan (31x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 20.332 V/m; **Power Drift = 0.097 dB**

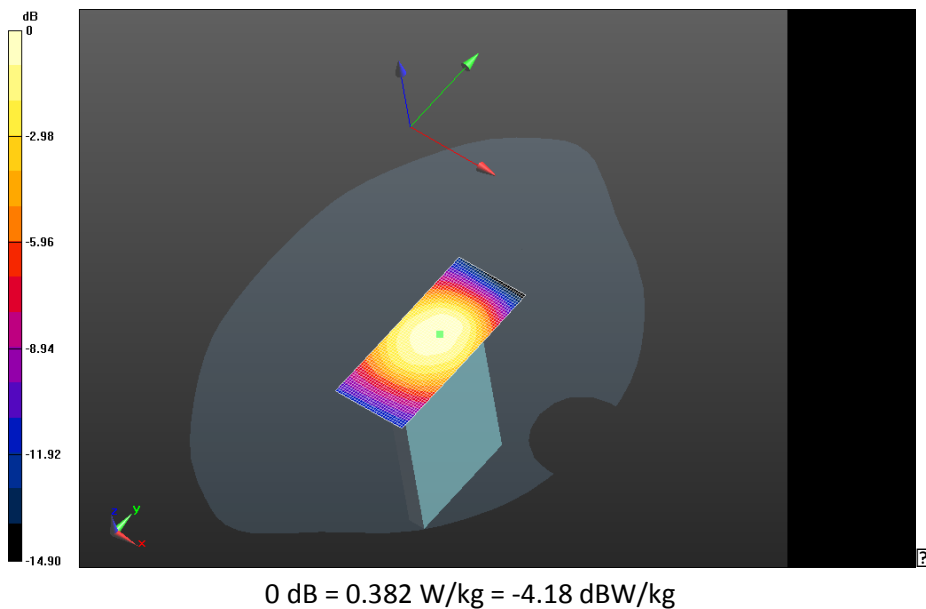
**Fast SAR: SAR(1g) = 0.333 W/kg; SAR(10g) = 0.225 W/kg**  
Maximum value of SAR (interpolated) = 0.382 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>27(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 850 BC0/10mm Device Bottom - CDMA 850**  
**BC0\_chan384\_amb\_temp\_23.5C\_liq\_temp\_22.2C/Area Scan (31x71x1): Interpolated grid:**  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 20.332 V/m; **Power Drift = 0.051 dB**

**Fast SAR: SAR(1g) = 0.358 W/kg; SAR(10g) = 0.239 W/kg**  
Maximum value of SAR (interpolated) = 0.415 W/kg



|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>28(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

# LTE 25 Full Power (RGB141LW)

|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>29(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

Date: 7/2/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA**

### **Configuration: Mobile Hot Spot MSL - LTE Band 25**

Communication System: LTE band 25; Communication System Band: LTE band 25; Frequency: 1860 MHz

Medium Parameters used:  $f=1860$  MHz;  $\sigma = 1.506$  S/m;  $\epsilon_r = 50.738$ ;  $\rho = 1.000$  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 25/10mm Device Back -**

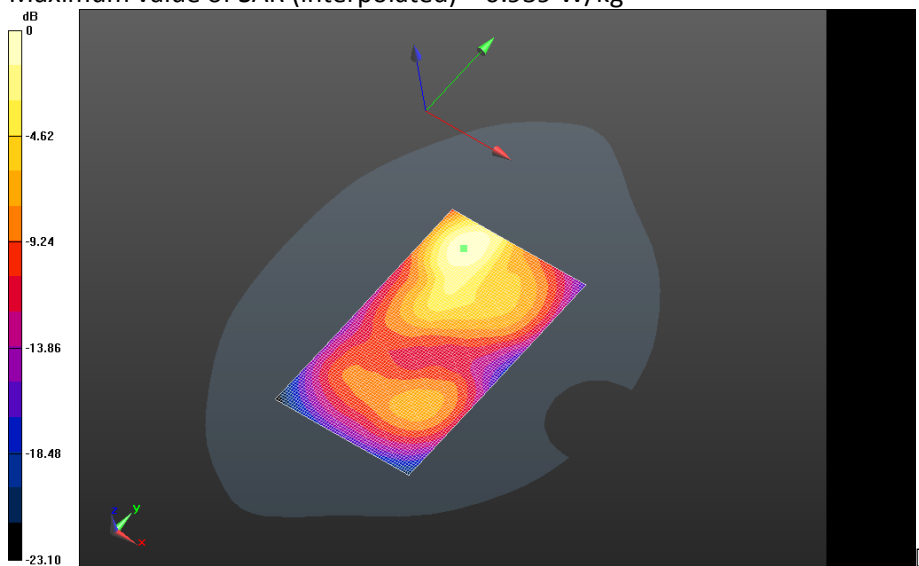
**LTE\_Band\_25\_chan26140\_RB1\_Offset99\_amb\_temp\_23.1C\_liq\_temp\_22.5C/Area Scan**

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

Reference Value = 10.466 V/m; **Power Drift = -0.104 dB**

**Fast SAR: SAR(1g) = 0.744 W/kg; SAR(10g) = 0.412 W/kg**

Maximum value of SAR (interpolated) = 0.939 W/kg

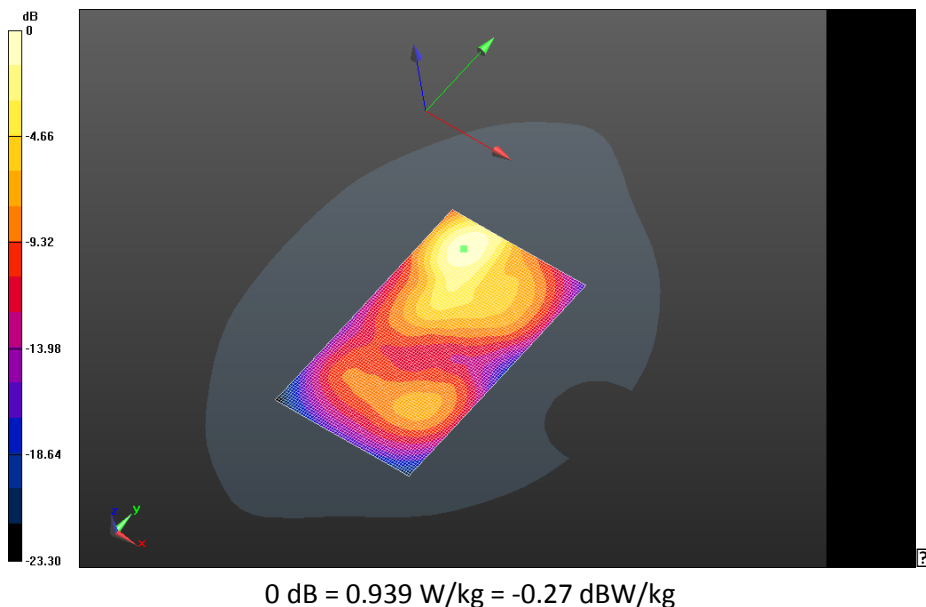


0 dB = 0.939 W/kg = -0.27 dBW/kg

|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>30(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - LTE Band 25/10mm Device Back -**  
**LTE\_Band\_25\_chan26140\_RB50\_Offset50\_amb\_temp\_23.4C\_liq\_temp\_22.5C/Area Scan**  
**(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm**  
Reference Value = 10.381 V/m; **Power Drift = 0.024 dB**

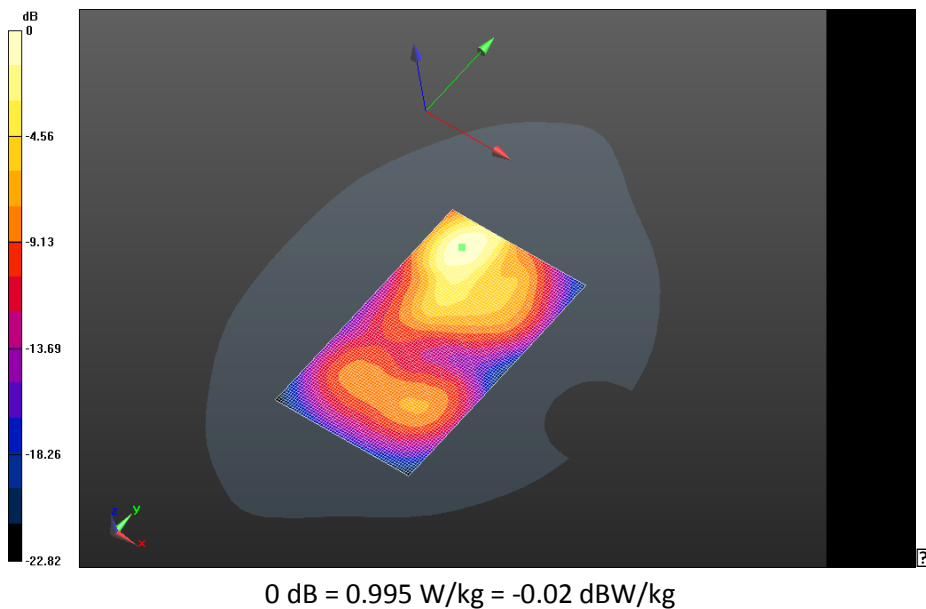
**Fast SAR: SAR(1g) = 0.785 W/kg; SAR(10g) = 0.431 W/kg**  
Maximum value of SAR (interpolated) = 0.995 W/kg



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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>31(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - LTE Band 25/10mm Device Back -**  
**LTE\_Band\_25\_chan26365\_RB100\_Offset0\_amb\_temp\_23.1C\_liq\_temp\_22.5C/Area Scan**  
**(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm**  
Reference Value = 9.061 V/m; **Power Drift = -0.071 dB**

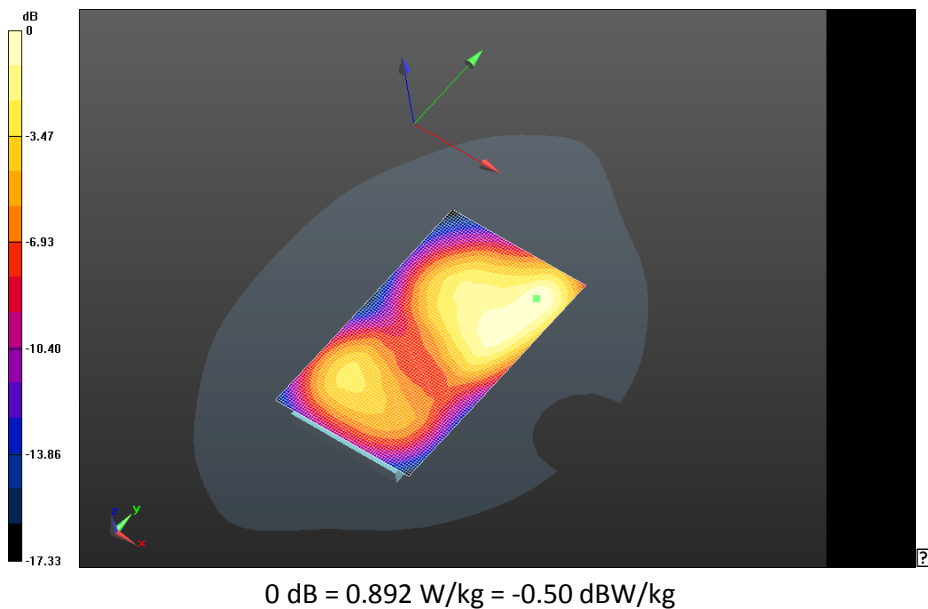
**Fast SAR: SAR(1g) = 0.705 W/kg; SAR(10g) = 0.385 W/kg**  
Maximum value of SAR (interpolated) = 0.892 W/kg



|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>32(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - LTE Band 25/10mm Device Front -**  
**LTE\_Band\_25\_chan26140\_RB50\_Offset50\_amb\_temp\_23.5C\_liq\_temp\_22.5C/Area Scan**  
**(61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm**  
Reference Value = 9.287 V/m; **Power Drift = 0.091 dB**

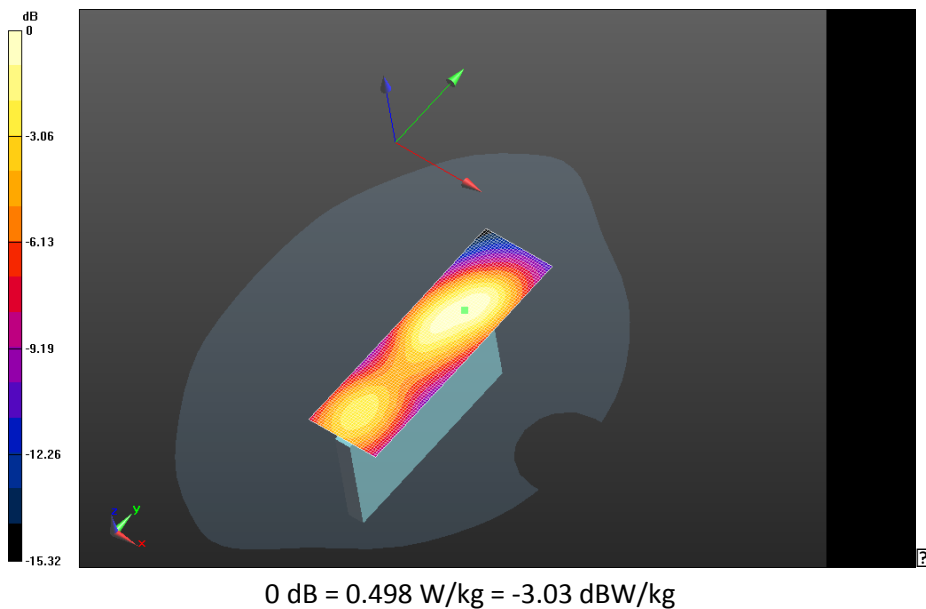
**Fast SAR: SAR(1g) = 0.406 W/kg; SAR(10g) = 0.244 W/kg**  
Maximum value of SAR (interpolated) = 0.498 W/kg



|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>33(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - LTE Band 25/10mm Device Left -**  
**LTE\_Band\_25\_chan26140\_RB50\_Offset50\_amb\_temp\_23.3C\_liq\_temp\_22.5C/Area Scan**  
**(31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm**  
Reference Value = 9.771 V/m; **Power Drift = -0.011 dB**

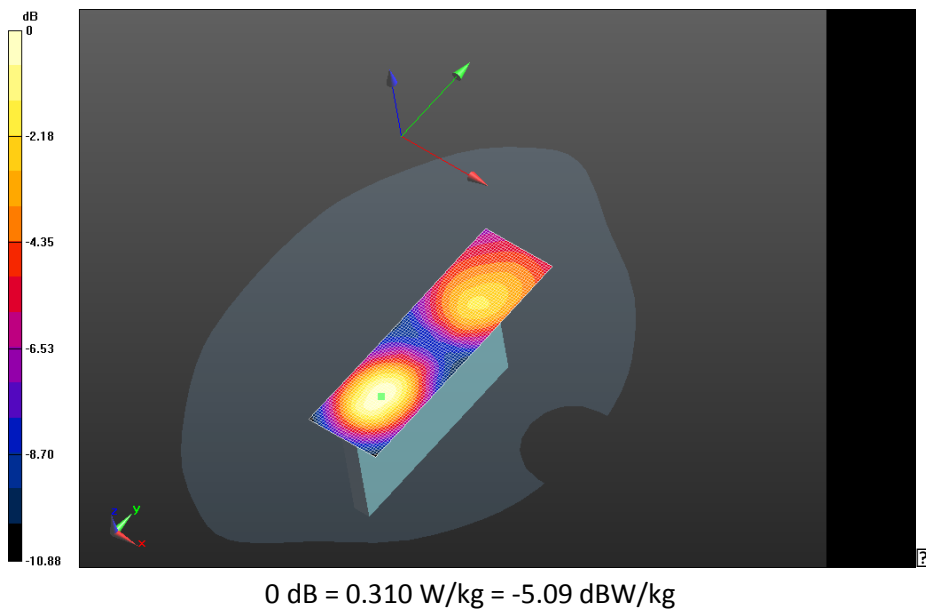
**Fast SAR: SAR(1g) = 0.251 W/kg; SAR(10g) = 0.143 W/kg**  
Maximum value of SAR (interpolated) = 0.310 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>34(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - LTE Band 25/10mm Device Right -**  
**LTE\_Band\_25\_chan26365\_RB50\_Offset50\_amb\_temp\_23.1C\_liq\_temp\_22.5C/Area Scan**  
**(31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm**  
**Reference Value = 4.273 V/m; Power Drift = 0.00827 dB**

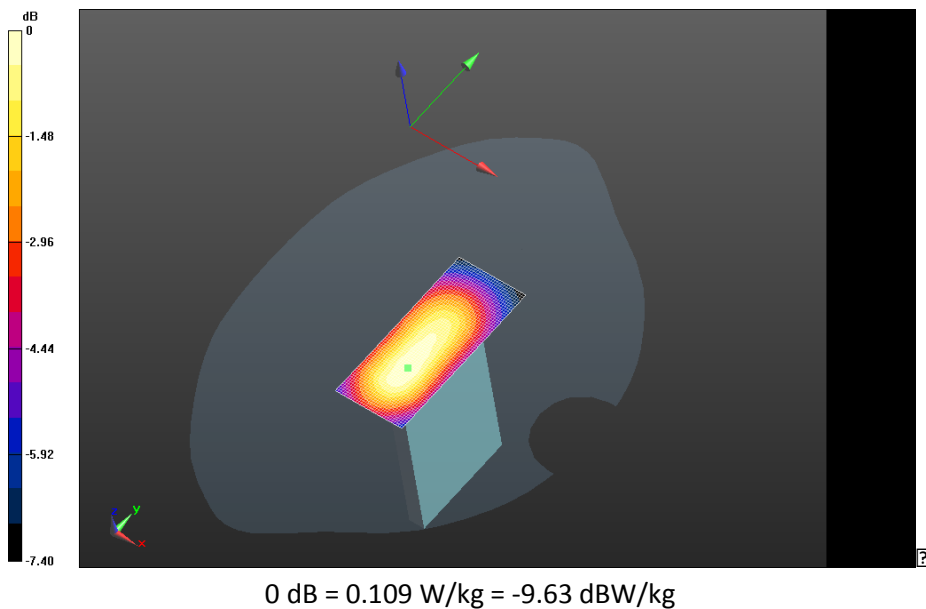
**Fast SAR: SAR(1g) = 0.0896 W/kg; SAR(10g) = 0.0499 W/kg**  
**Maximum value of SAR (interpolated) = 0.109 W/kg**



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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>35(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - LTE Band 25/10mm Device Bottom -**  
**LTE\_Band\_25\_chan26365\_RB50\_Offset50\_amb\_temp\_23.0C\_liq\_temp\_22.5C/Area Scan**  
**(31x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 8.555 V/m; **Power Drift = 0.012 dB**

**Fast SAR: SAR(1g) = 0.0904 W/kg; SAR(10g) = 0.0543 W/kg**  
Maximum value of SAR (interpolated) = 0.108 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>36(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

# GPRS 1900 (RGB141LW)

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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|----|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               |    | Page<br><b>37(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC |                       |

Date: 7/3/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

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

Communication System: GPRS 1900 (4-slots); Communication System Band: GPRS 1900 ( 4 slots); Frequency: 1880 MHz

Medium Parameters used:  $f=1880$  MHz;  $\sigma = 1.534$  S/m;  $\epsilon_r = 50.675$ ;  $\rho = 1.000$  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 - GPRS1900\_4-**

**Slots\_chan661\_amb\_temp\_22.8C\_liq\_temp\_21.1C/Area Scan (61x101x1):** Interpolated grid:

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

Maximum value of SAR (interpolated) = 0.647 W/kg

#### **Mobile Hot Spot MSL - GPRS 1900/10mm Device Back - GPRS1900\_4-**

**Slots\_chan661\_amb\_temp\_22.8C\_liq\_temp\_21.1C/Zoom Scan (21x21x36)/Cube 0:**

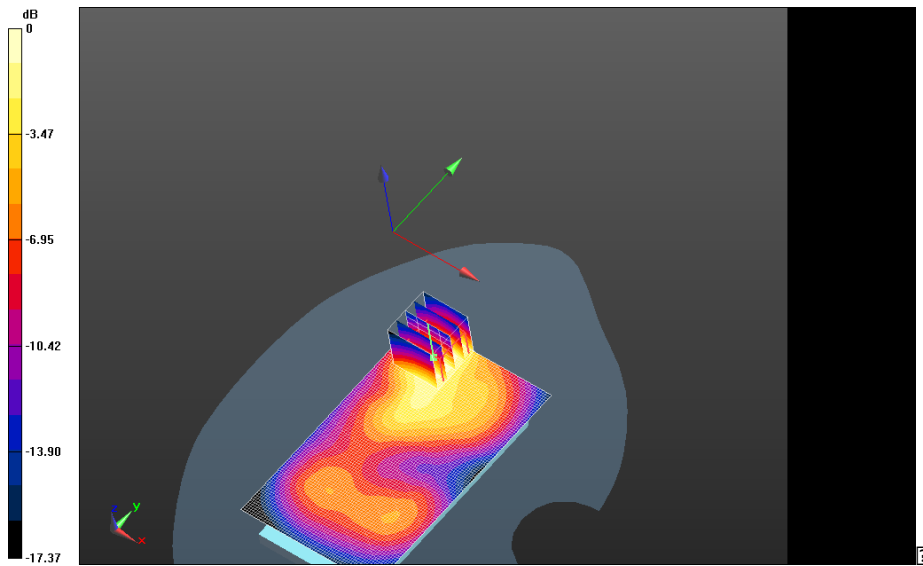
Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm,  $dz=1.000$  mm

Reference Value = 7.735 V/m; **Power Drift = 0.00546 dB**

**Averaged SAR: SAR(1g) = 0.562 W/kg; SAR(10g) = 0.314 W/kg**

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

|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>38(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |



0 dB = 0.664 W/kg = -1.78 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>39(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

# UMTS Band II (RGB141LW)

|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>40(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

Date: 7/3/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

### **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;  $\sigma = 1.534$  S/m;  $\epsilon_r = 50.675$ ;  $\rho = 1.000$  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\_23.6C\_liq\_temp\_22.4C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.682 W/kg

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

**UMTS\_II\_chan9400\_amb\_temp\_23.6C\_liq\_temp\_22.4C/Zoom Scan (21x21x36)/Cube 0:**

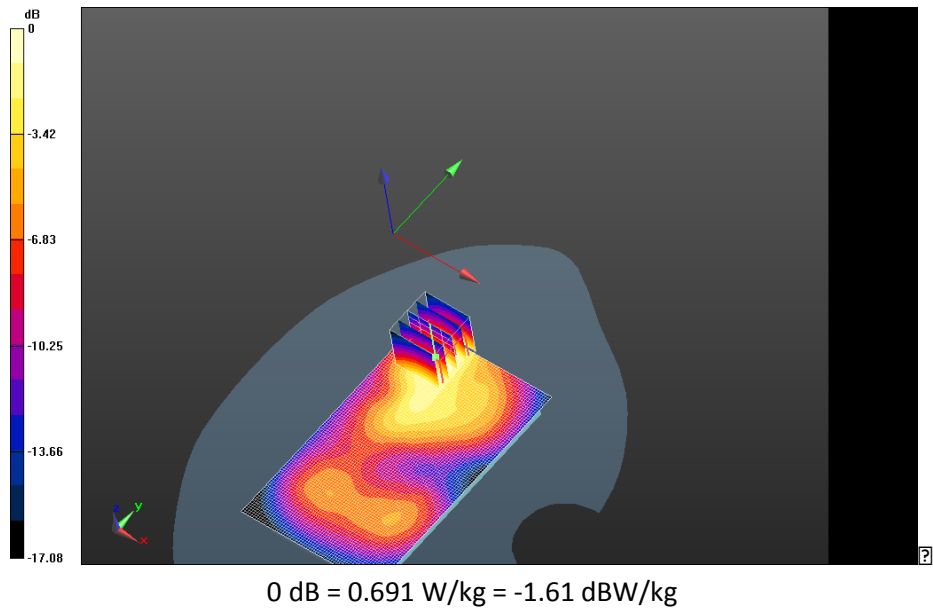
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm

Reference Value = 7.981 V/m; **Power Drift = -0.161 dB**

**Averaged SAR: SAR(1g) = 0.585 W/kg; SAR(10g) = 0.330 W/kg**

Maximum value of SAR (interpolated) = 0.993 W/kg

|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>41(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |



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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>42(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

# CDMA 1900 (RGB141LW)

|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>43(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

Date: 6/28/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E7691**

### **Configuration: Mobile Hot Spot MSL - CDMA 1900 BC1**

Communication System: CDMA 1900; Communication System Band: CDMA 2000 PCS;

Frequency: 1851.25 MHz

Medium Parameters used:  $f=1851.25$  MHz;  $\sigma = 1.489$  S/m;  $\epsilon_r = 51.239$ ;  $\rho = 1.000$  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 - CDMA 1900 BC1/10mm Device Back - CDMA 1900**

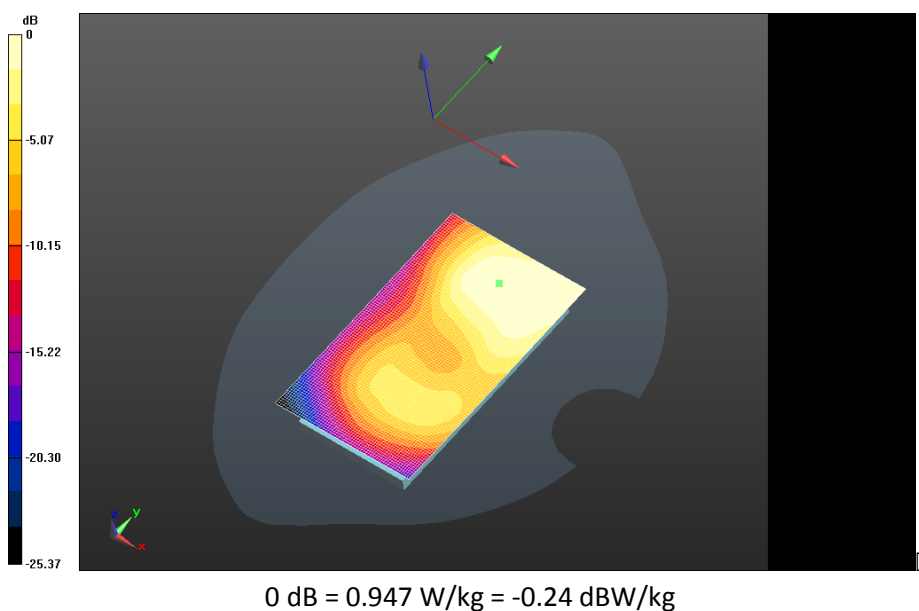
**BC1\_chan25\_amb\_temp\_23.6C\_liq\_temp\_22.5C/Area Scan (61x101x1):** Interpolated grid:

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

Reference Value = 12.250 V/m; **Power Drift = 0.097 dB**

**Fast SAR: SAR(1g) = 0.796 W/kg; SAR(10g) = 0.496 W/kg**

Maximum value of SAR (interpolated) = 0.947 W/kg

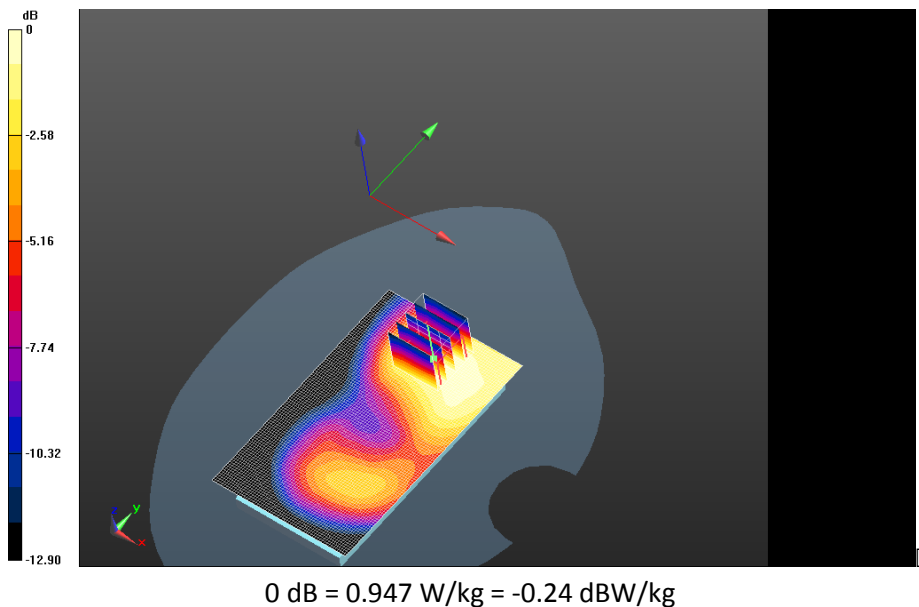


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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>44(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16, 2013</b>                                             | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Back - CDMA 1900 BC1\_chan600\_amb\_temp\_23.3C\_liq\_temp\_22.6C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 11.498 V/m; **Power Drift = -0.069 dB**

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Back - CDMA 1900 BC1\_chan600\_amb\_temp\_23.3C\_liq\_temp\_22.6C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 11.498 V/m; **Power Drift = -0.069 dB**

**Averaged SAR: SAR(1g) = 0.847 W/kg; SAR(10g) = 0.547 W/kg**  
Maximum value of SAR (interpolated) = 1.30 W/kg

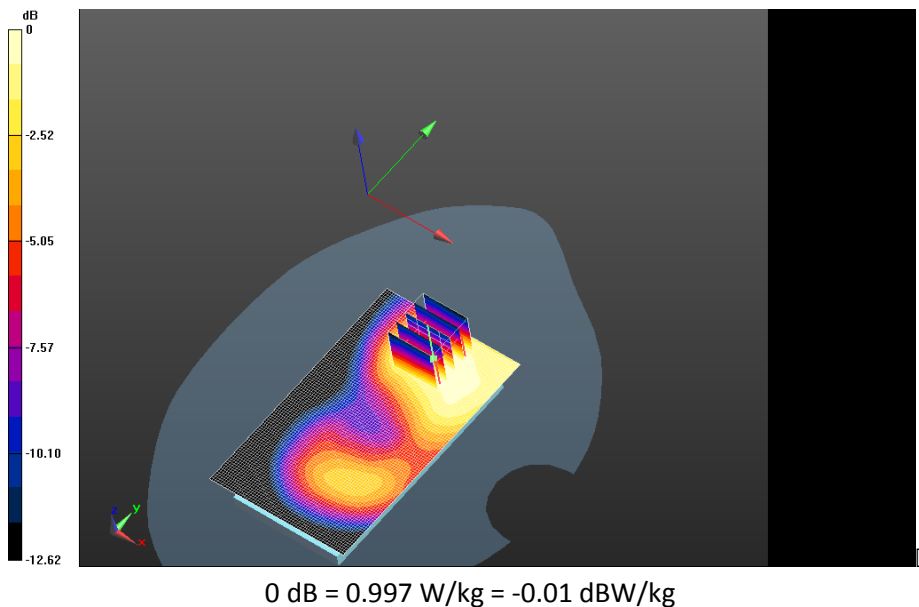


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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>45(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Back - CDMA 1900 BC1\_chan600\_2nd scan\_amb\_temp\_23.1C\_liq\_temp\_22.8C/Area Scan (61x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 11.484 V/m; **Power Drift = -0.099 dB**

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Back - CDMA 1900 BC1\_chan600\_2nd scan\_amb\_temp\_23.1C\_liq\_temp\_22.8C/Zoom Scan (21x21x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 11.484 V/m; **Power Drift = -0.099 dB**

**Averaged SAR: SAR(1g) = 0.849 W/kg; SAR(10g) = 0.546 W/kg**  
Maximum value of SAR (interpolated) = 1.32 W/kg



|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>46(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Back - CDMA 1900**

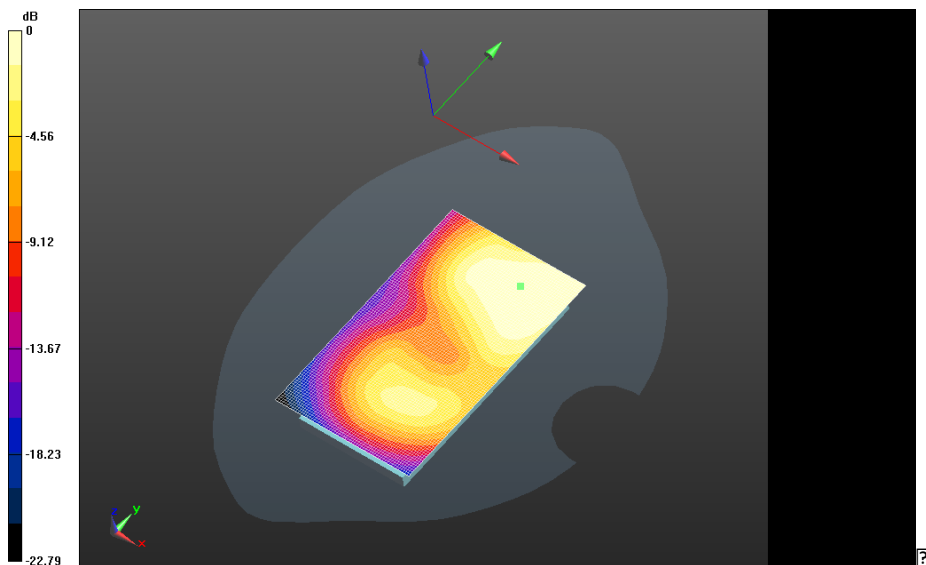
**BC1\_chan1175\_amb\_temp\_23.1C\_liq\_temp\_22.4C/Area Scan (61x101x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 10.554 V/m; **Power Drift = -0.051 dB**

**Fast SAR: SAR(1g) = 0.718 W/kg; SAR(10g) = 0.448 W/kg**

Maximum value of SAR (interpolated) = 0.858 W/kg

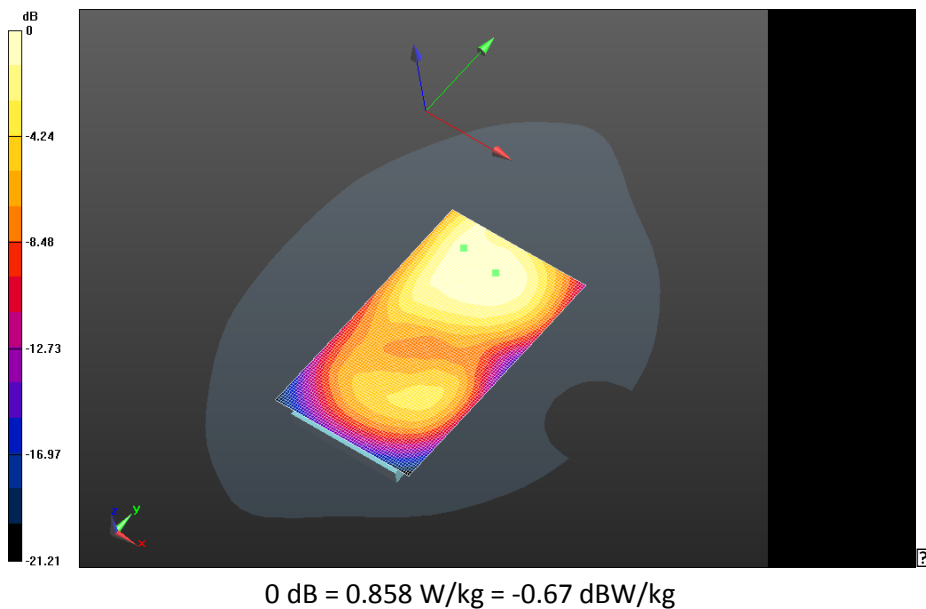


0 dB = 1.00 W/kg = 0.00 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>47(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Front - CDMA 1900**  
**BC1\_chan25\_amb\_temp\_23.4C\_liq\_temp 22.3C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 16.063 V/m; **Power Drift = -0.070 dB**

**Fast SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.677 W/kg**  
Maximum value of SAR (interpolated) = 1.29 W/kg



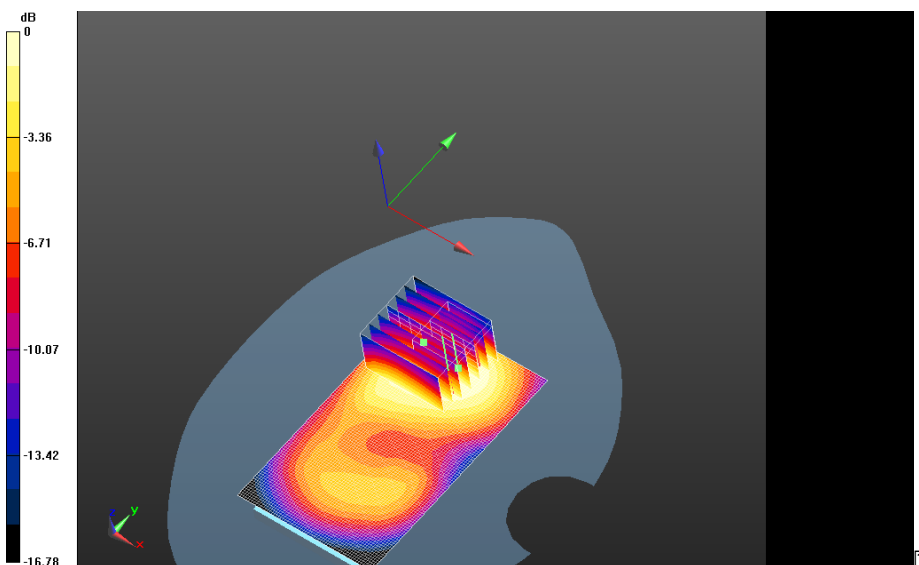
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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>48(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Front - CDMA 1900 BC1\_chan600\_amb\_temp\_23.4C\_liq\_temp 22.3C/Area Scan (61x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 16.143 V/m; **Power Drift = -0.098 dB**

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Front - CDMA 1900 BC1\_chan600\_amb\_temp\_23.4C\_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 = 16.143 V/m; **Power Drift = -0.098 dB**

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Front - CDMA 1900 BC1\_chan600\_amb\_temp\_23.4C\_liq\_temp 22.3C/Zoom Scan 2 (36x31x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 16.143 V/m; **Power Drift = 0.384 dB**

**Averaged SAR: SAR(1g) = 1.07 W/kg; SAR(10g) = 0.704 W/kg**  
Maximum value of SAR (interpolated) = 1.62 W/kg



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

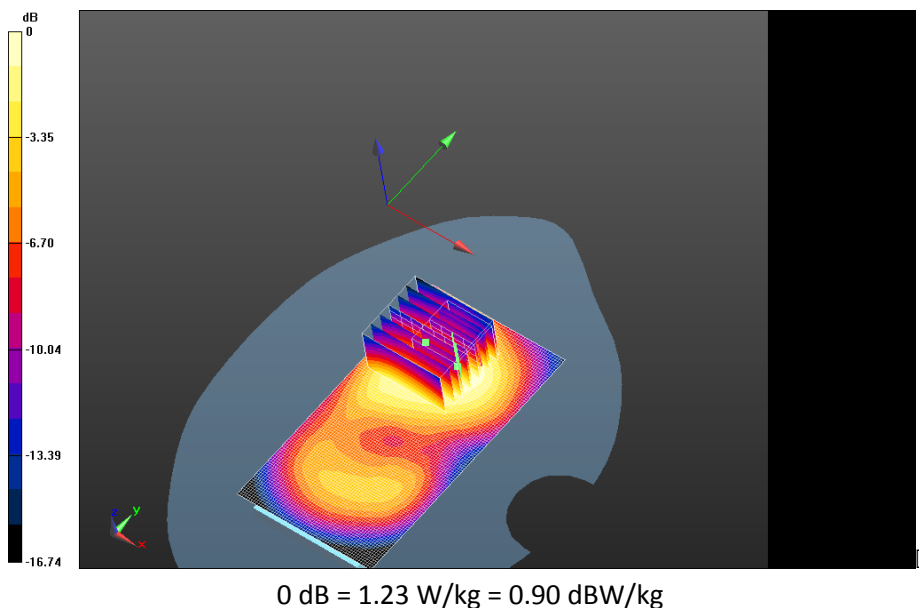
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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>49(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Front - CDMA 1900 BC1\_chan600\_2nd Scan\_amb\_temp\_23.4C\_liq\_temp 22.3C/Area Scan (61x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 15.244 V/m; **Power Drift = -0.00231 dB**

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Front - CDMA 1900 BC1\_chan600\_2nd Scan\_amb\_temp\_23.4C\_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 = 15.244 V/m; **Power Drift = -0.00231 dB**

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Front - CDMA 1900 BC1\_chan600\_2nd Scan\_amb\_temp\_23.4C\_liq\_temp 22.3C/Zoom Scan 2 (36x31x36)/Cube 0:** Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 15.244 V/m; **Power Drift = 0.084 dB**

**Averaged SAR: SAR(1g) = 1.09 W/kg; SAR(10g) = 0.703 W/kg**  
Maximum value of SAR (interpolated) = 1.67 W/kg



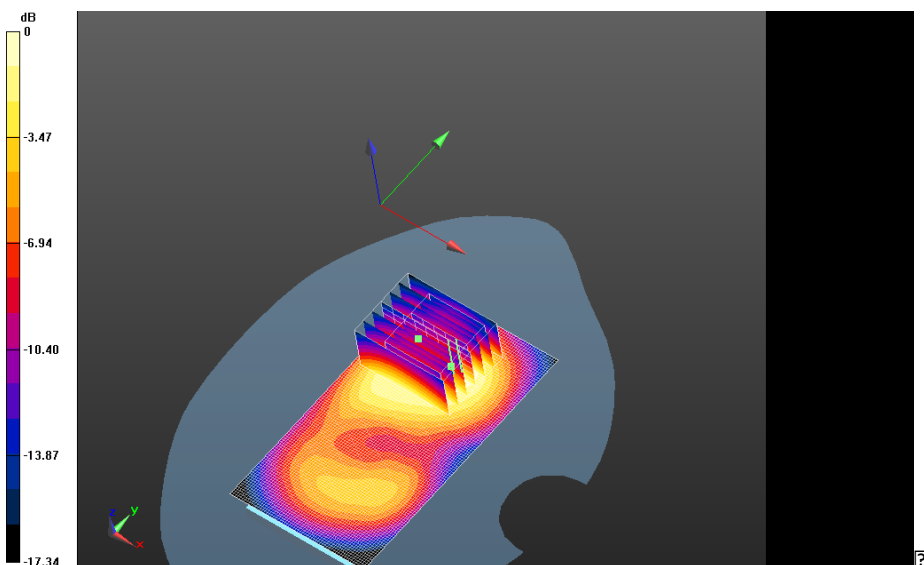
|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>50(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Front - CDMA 1900 BC1\_chan1175\_amb\_temp\_23.3C\_liq\_temp 22.3C/Area Scan (61x111x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 15.533 V/m; **Power Drift = -0.016 dB**

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Front - CDMA 1900 BC1\_chan1175\_amb\_temp\_23.3C\_liq\_temp 22.3C/Zoom Scan (26x26x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 15.533 V/m; **Power Drift = -0.016 dB**

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Front - CDMA 1900 BC1\_chan1175\_amb\_temp\_23.3C\_liq\_temp 22.3C/Zoom Scan 2 (41x31x36)/Cube 0:**  
Interpolated grid: dx=1.500 mm, dy=1.500 mm, dz=1.000 mm  
Reference Value = 15.533 V/m; **Power Drift = 0.101 dB**

**Averaged SAR: SAR(1g) = 1.08 W/kg; SAR(10g) = 0.697 W/kg**  
Maximum value of SAR (interpolated) = 1.66 W/kg



0 dB = 1.25 W/kg = 0.97 dBW/kg

|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>51(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Left - CDMA 1900**

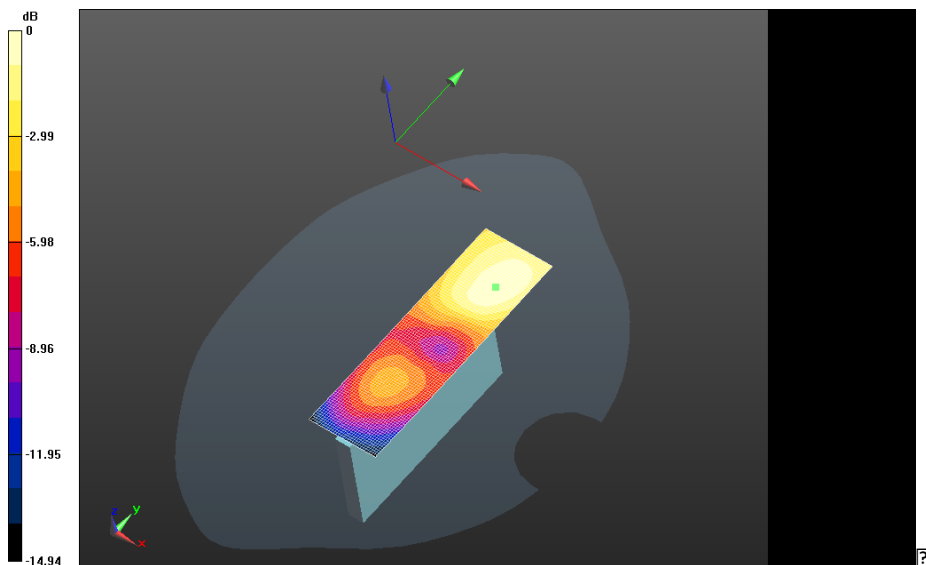
**BC1\_chan600\_amb\_temp\_23.1C\_liq\_temp\_22.3C/Area Scan (31x101x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 6.502 V/m; **Power Drift = -0.028 dB**

**Fast SAR: SAR(1g) = 0.178 W/kg; SAR(10g) = 0.108 W/kg; Secondary SAR(1g) = 0.898 W/kg**

Maximum value of SAR (interpolated) = 0.215 W/kg

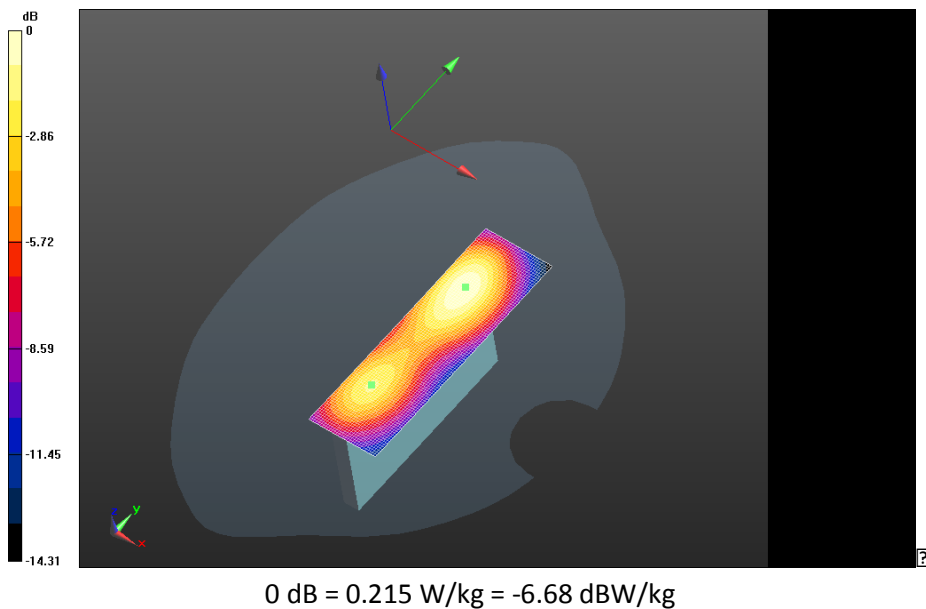


0 dB = 1.27 W/kg = 1.04 dBW/kg

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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>52(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Right - CDMA 1900 BC1\_chan25\_amb\_temp\_23.6C\_liq\_temp\_22.3C/Area Scan (31x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 17.273 V/m; **Power Drift = 0.083 dB**

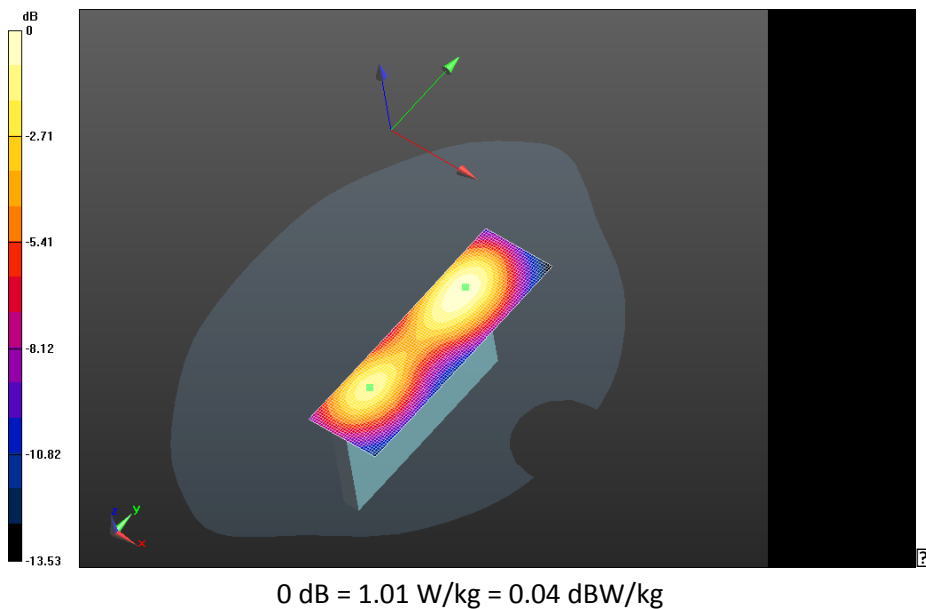
**Fast SAR: SAR(1g) = 0.818 W/kg; SAR(10g) = 0.464 W/kg; Secondary SAR(1g) = 0.548 W/kg**  
Maximum value of SAR (interpolated) = 1.01 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>53(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Right - CDMA 1900 BC1\_chan600\_amb\_temp\_23.1C\_liq\_temp\_22.3C/Area Scan (31x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 17.867 V/m; **Power Drift = -0.033 dB**

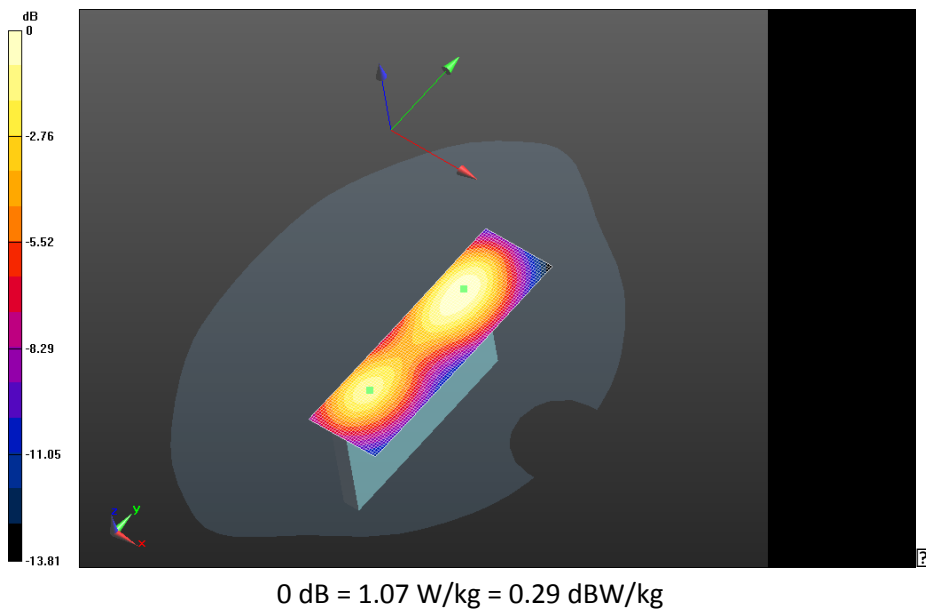
**Fast SAR: SAR(1g) = 0.872 W/kg; SAR(10g) = 0.499 W/kg; Secondary SAR(1g) = 0.666 W/kg**  
Maximum value of SAR (interpolated) = 1.07 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>54(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Right - CDMA 1900 BC1\_chan1175\_amb\_temp\_23.1C\_liq\_temp\_22.3C/Area Scan (31x101x1):** Interpolated grid:  
dx=1.500 mm, dy=1.500 mm  
Reference Value = 16.734 V/m; **Power Drift = -0.098 dB**

**Fast SAR: SAR(1g) = 0.786 W/kg; SAR(10g) = 0.452 W/kg; Secondary SAR(1g) = 0.598 W/kg**  
Maximum value of SAR (interpolated) = 0.959 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>55(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - CDMA 1900 BC1/10mm Device Bottom - CDMA 1900**

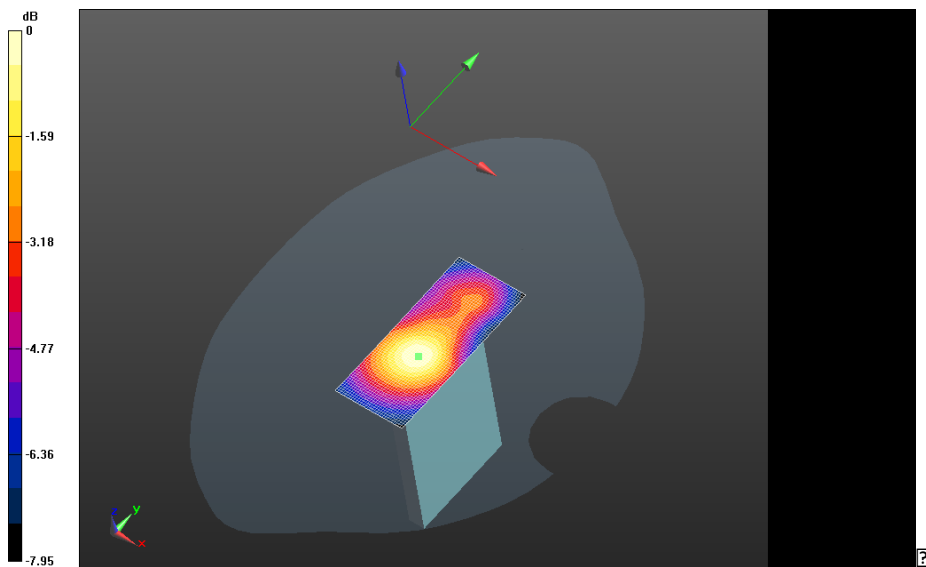
**BC1\_chan600\_amb\_temp\_23.5C\_liq\_temp\_22.2C/Area Scan (31x71x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 18.135 V/m; **Power Drift = -0.089 dB**

**Fast SAR: SAR(1g) = 0.407 W/kg; SAR(10g) = 0.237 W/kg; Secondary SAR(1g) = 0.598 W/kg**

Maximum value of SAR (interpolated) = 0.492 W/kg



0 dB = 0.959 W/kg = -0.18 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>56(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

# 802.11b (RGB141LW)

|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>57(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

Date: 7/25/2013

Test Lab: RIM Testing Services

**DUT Name: BlackBerry Smartphone, Type: Sample, Serial: 303E76AA**

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

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 - 802.11g/10mm Device Back -**

**802.11g\_chan6\_amb\_temp\_23.0C\_liq\_temp\_22.6C/Area Scan 2 (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 1.186 V/m; **Power Drift = 0.195 dB**

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

**802.11g\_chan6\_amb\_temp\_23.0C\_liq\_temp\_22.6C/Zoom Scan (31x31x36)/Cube 0:**

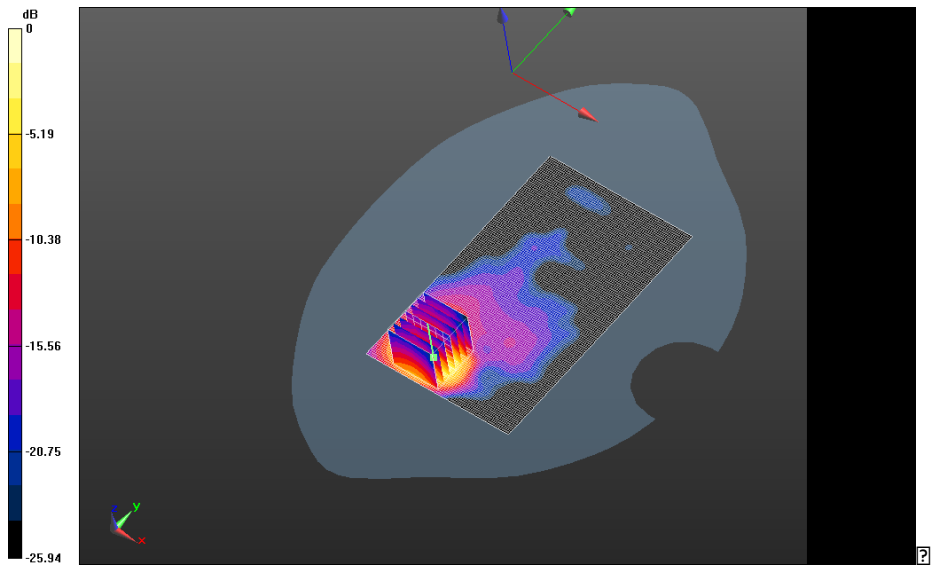
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 1.186 V/m; **Power Drift = 0.195 dB**

**Averaged SAR: SAR(1g) = 0.190 W/kg; SAR(10g) = 0.0839 W/kg**

Maximum value of SAR (interpolated) = 0.422 W/kg

|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>58(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |



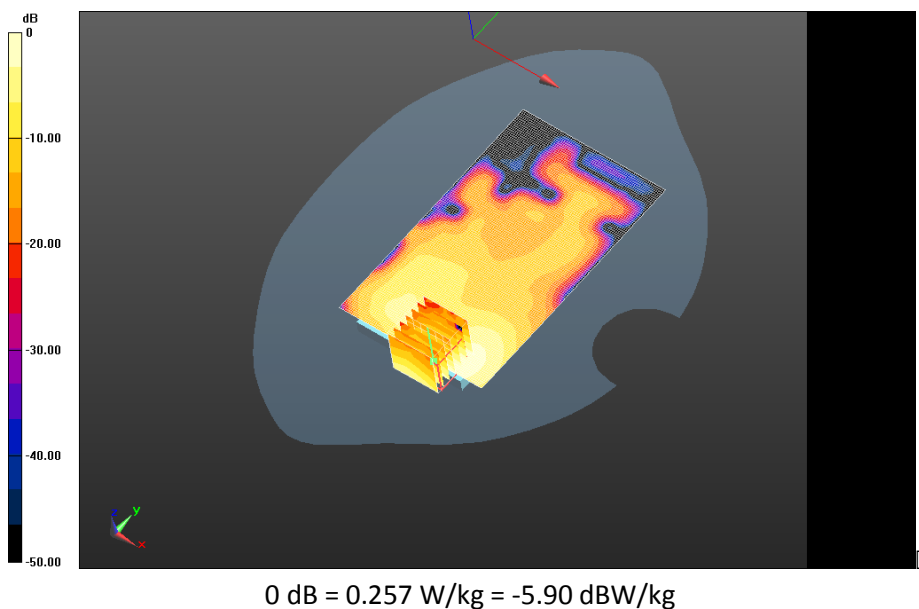
0 dB = 0.257 W/kg = -5.90 dBW/kg

|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>59(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16, 2013</b>                                             | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - 802.11g/10mm Device Front -**  
**802.11g\_chan6\_amb\_temp\_23.2C\_liq\_temp\_21.5C/Area Scan (81x131x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm  
Reference Value = 1.407 V/m; **Power Drift = 0.429 dB**

**Mobile Hot Spot MSL - 802.11g/10mm Device Front -**  
**802.11g\_chan6\_amb\_temp\_23.2C\_liq\_temp\_21.5C/Zoom Scan (31x31x36)/Cube 0:**  
Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm  
Reference Value = 1.407 V/m; **Power Drift = 0.429 dB**

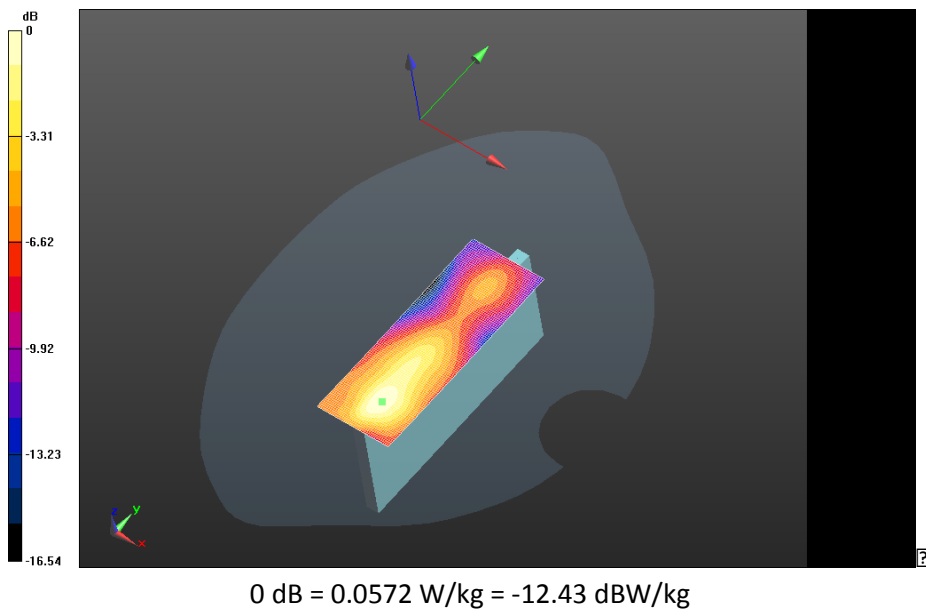
**Averaged SAR: SAR(1g) = 0.0451 W/kg; SAR(10g) = 0.0232 W/kg**  
Maximum value of SAR (interpolated) = 0.0878 W/kg



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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>60(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - 802.11g/10mm Device Left -**  
**802.11g\_chan6\_amb\_temp\_23.0C\_liq\_temp\_22.6C/Area Scan (41x111x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm  
Reference Value = 2.789 V/m; **Power Drift = -0.00381 dB**

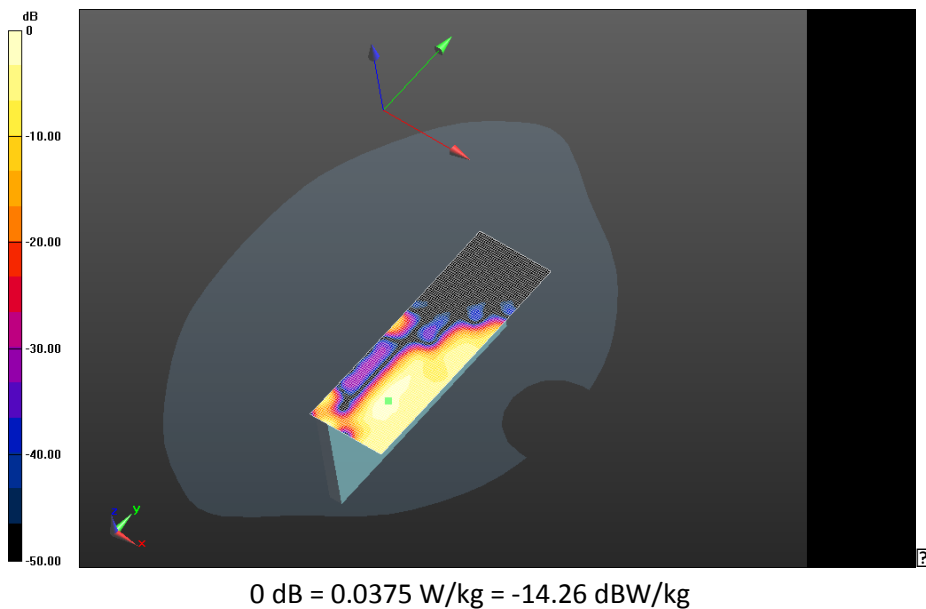
**Fast SAR: SAR(1g) = 0.0286 W/kg; SAR(10g) = 0.0142 W/kg**  
Maximum value of SAR (interpolated) = 0.0375 W/kg



|                                                                                  |                                                                                               |                                                 |                               |                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>61(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                              | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - 802.11g/10mm Device Right -**  
**802.11g\_chan6\_amb\_temp\_22.7C\_liq\_temp\_22.6C/Area Scan (41x121x1): Interpolated grid:**  
dx=1.200 mm, dy=1.200 mm  
Reference Value = 0.394 V/m; **Power Drift = 0.382 dB**

**Fast SAR: SAR(1g) = 0.00258 W/kg; SAR(10g) = 0.00113 W/kg**  
Maximum value of SAR (interpolated) = 0.00447 W/kg



|                                                                                   |                                                                                               |                                                 |                               |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|-----------------------|
|  | Document<br><b>Appendix C2 for the BlackBerry® Smartphone Model RGB141LW SAR Report Rev 2</b> |                                                 |                               | Page<br><b>62(62)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>June 11 – August 16,2013</b>                                              | Test Report No<br><b>RTS-6046-1308-39 Rev 2</b> | FCC ID:<br><b>L6ARGB140LW</b> | IC                    |

**Mobile Hot Spot MSL - 802.11g/10mm Device Top -**  
**802.11g\_chan6\_amb\_temp\_23.0C\_liq\_temp\_22.6C/Area Scan (41x91x1):** Interpolated grid:  
dx=1.200 mm, dy=1.200 mm  
Reference Value = 4.182 V/m; **Power Drift = 0.00828 dB**

**Fast SAR: SAR(1g) = 0.0904 W/kg; SAR(10g) = 0.0444 W/kg**  
Maximum value of SAR (interpolated) = 0.118 W/kg

