

|                                                                                   |                                               |                                                                                                        |                               |                      |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                              | FCC ID:<br><b>L6ARHT180LW</b> |                      |

## APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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**Note: Model RHM181LW was tested using the external lab CETECOM ICT Services GmbH. Information regarding the SAR test results and procedures for model: RHM181LW were taken from the CETECOM SAR test report for model RHM181LW, report number 1-0042/15-01-15-A**

|                                                                                   |                                               |                                                                                                             |                               |                      |
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## Dipole Validation for model RHT181LW

|                                                                                   |                                               |                                                                                                             |                               |                      |
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## 750 MHz

Date/Time: 10/20/2015 10:24:58 PM

Test Laboratory: BlackBerry RTS

**DipoleValidation\_700MHz\_10\_20\_15\_Amb\_Tem\_24.0C\_Liq\_Tem\_22.5C**

**DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1021**

Communication System: UID 0, CW (0); Frequency: 750 MHz

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.935 \text{ S/m}$ ;  $\epsilon_r = 42.881$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.69, 6.69, 6.69); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequencies below 1 GHz/d=15mm,**  
**Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1):** Interpolated  
grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Reference Value =  $103.2 \text{ V/m}$ ; Power Drift =  $-0.16 \text{ dB}$

**Fast SAR: SAR(1 g) = 8.29 W/kg; SAR(10 g) = 5.56 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) =  $8.93 \text{ W/kg}$

**System Performance Check at Frequencies below 1 GHz/d=15mm,**  
**Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube**

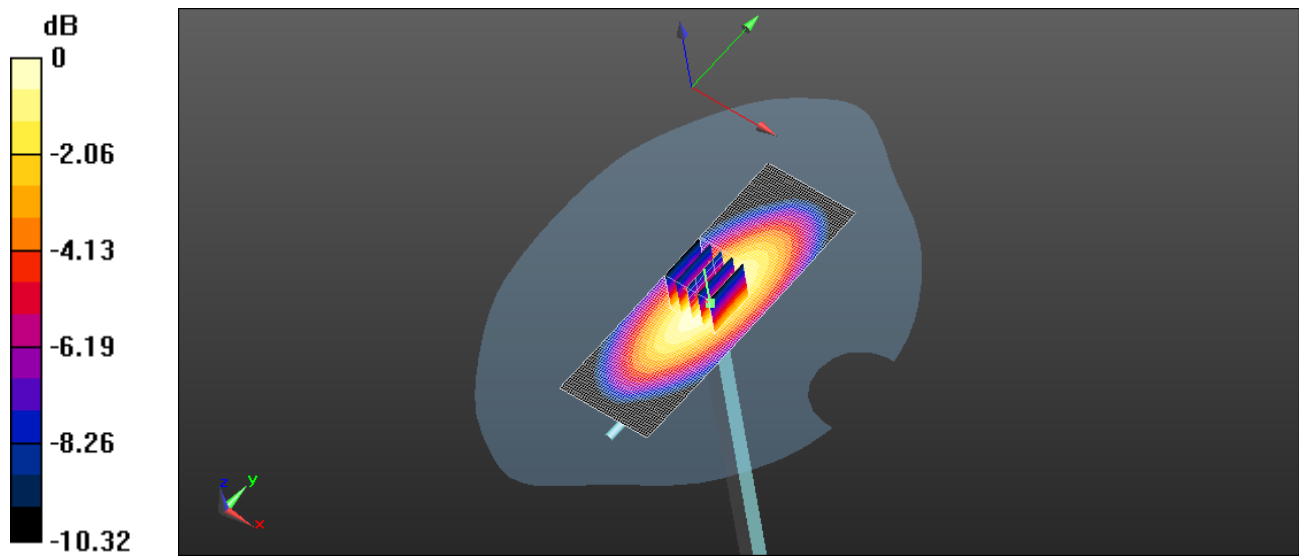
**0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $103.2 \text{ V/m}$ ; Power Drift =  $-0.16 \text{ dB}$

Peak SAR (extrapolated) =  $11.7 \text{ W/kg}$

**SAR(1 g) = 8.19 W/kg; SAR(10 g) = 5.42 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) =  $8.86 \text{ W/kg}$



0 dB = 8.86 W/kg = 9.47 dBW/kg

|                                                                                   |                                               |                                                                                                             |                               |                      |
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## 835 MHz

Date/Time: 10/7/2015 9:20:19 PM

Test Laboratory: BlackBerry RTS

**DipoleValidation\_835MHz\_10\_07\_15\_Amb\_Tem\_23.8C\_Liq\_Tem\_23.0C**

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446**

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.886 \text{ S/m}$ ;  $\epsilon_r = 41.734$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.09, 6.09, 6.09); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequencies below 1 GHz/d=15mm,**

**Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Reference Value = 109.6 V/m; Power Drift = -0.01 dB

**Fast SAR: SAR(1 g) = 9.35 W/kg; SAR(10 g) = 6.2 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 9.94 W/kg

**System Performance Check at Frequencies below 1 GHz/d=15mm,**

**Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube**

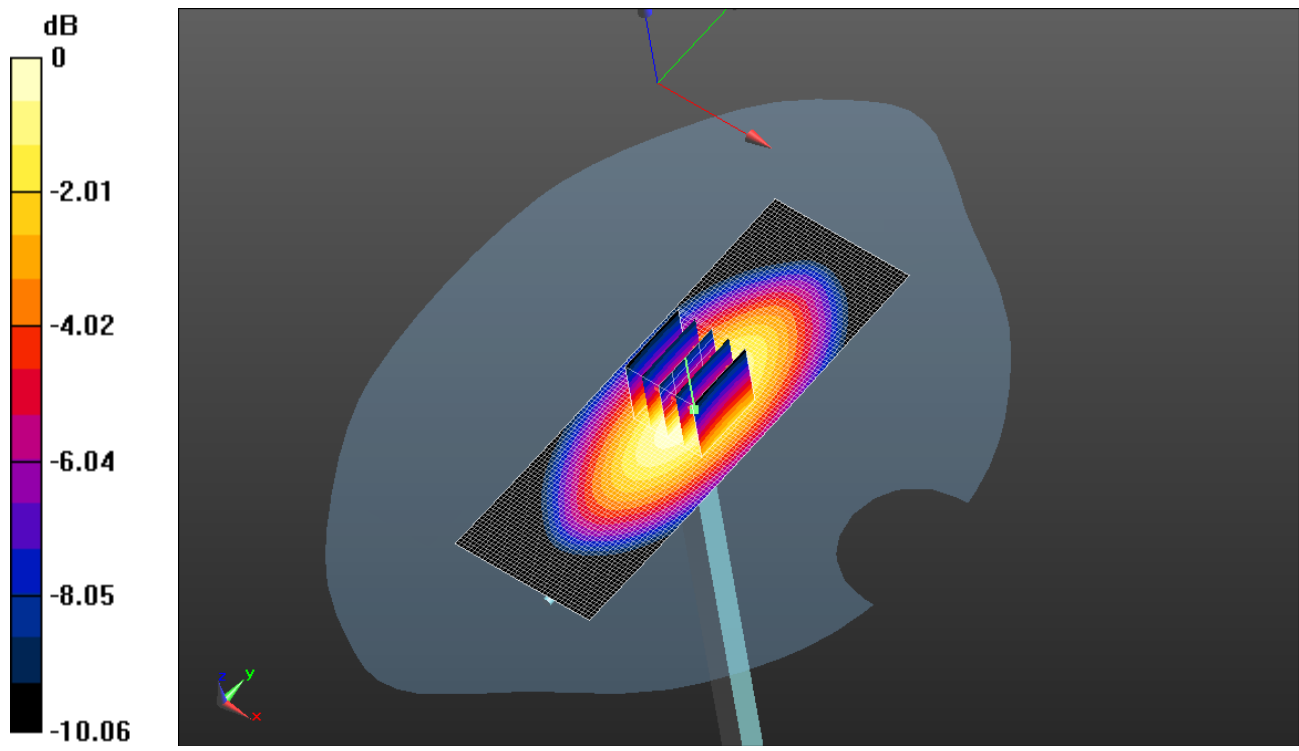
**0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 109.6 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 12.9 W/kg

**SAR(1 g) = 9.35 W/kg; SAR(10 g) = 6.21 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 9.99 W/kg



0 dB = 9.99 W/kg = 10.00 dBW/kg

|                                                                                   |                                               |                                                                                                             |                               |                      |
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Date/Time: 10/13/2015 2:06:06 AM

Test Laboratory: BlackBerry RTS

## **DipoleValidation\_835MHz\_10\_13\_15\_Amb\_Tem\_23.5C\_Liq\_Tem\_21.7C**

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446**

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.897 \text{ S/m}$ ;  $\epsilon_r = 40.453$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.09, 6.09, 6.09); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequencies below 1 GHz/d=15mm,**  
**Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1):** Interpolated  
grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Reference Value =  $112.5 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$

**Fast SAR: SAR(1 g) = 9.65 W/kg; SAR(10 g) = 6.42 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) =  $10.4 \text{ W/kg}$

**System Performance Check at Frequencies below 1 GHz/d=15mm,**  
**Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube**

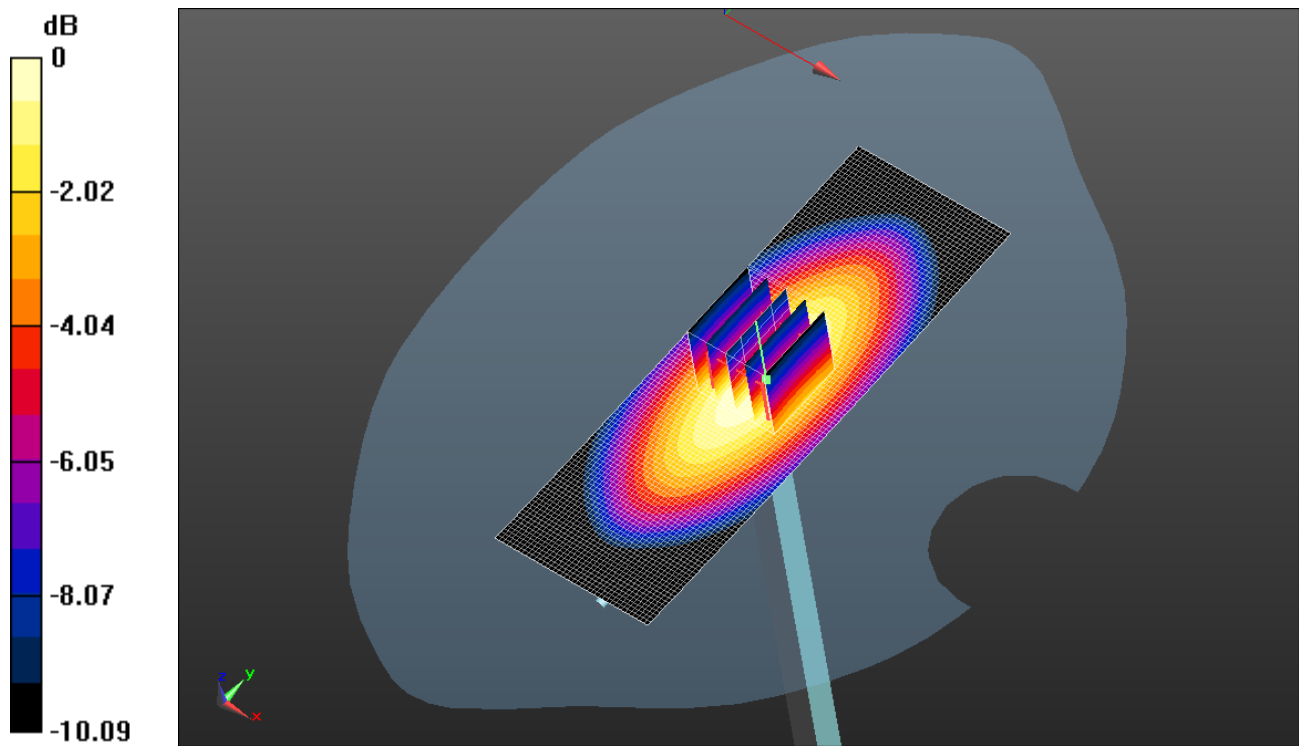
**0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $112.5 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$

Peak SAR (extrapolated) =  $13.4 \text{ W/kg}$

**SAR(1 g) = 9.6 W/kg; SAR(10 g) = 6.4 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) =  $10.4 \text{ W/kg}$



0 dB = 10.4 W/kg = 10.17 dBW/kg



|                                                                                   |                                               |                                                                                                   |                               |                      |
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Date/Time: 10/19/2015 3:52:44 AM

Test Laboratory: BlackBerry RTS

## **DipoleValidation\_835MHz\_10\_19\_15\_Amb\_Tem\_24.0C\_Liq\_Tem\_22.6C**

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446**

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.881 \text{ S/m}$ ;  $\epsilon_r = 41.003$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.09, 6.09, 6.09); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Reference Value =  $111.5 \text{ V/m}$ ; Power Drift =  $-0.05 \text{ dB}$

**Fast SAR: SAR(1 g) = 9.41 W/kg; SAR(10 g) = 6.24 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) =  $10.0 \text{ W/kg}$

**System Performance Check at Frequencies below 1 GHz/d=15mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube**

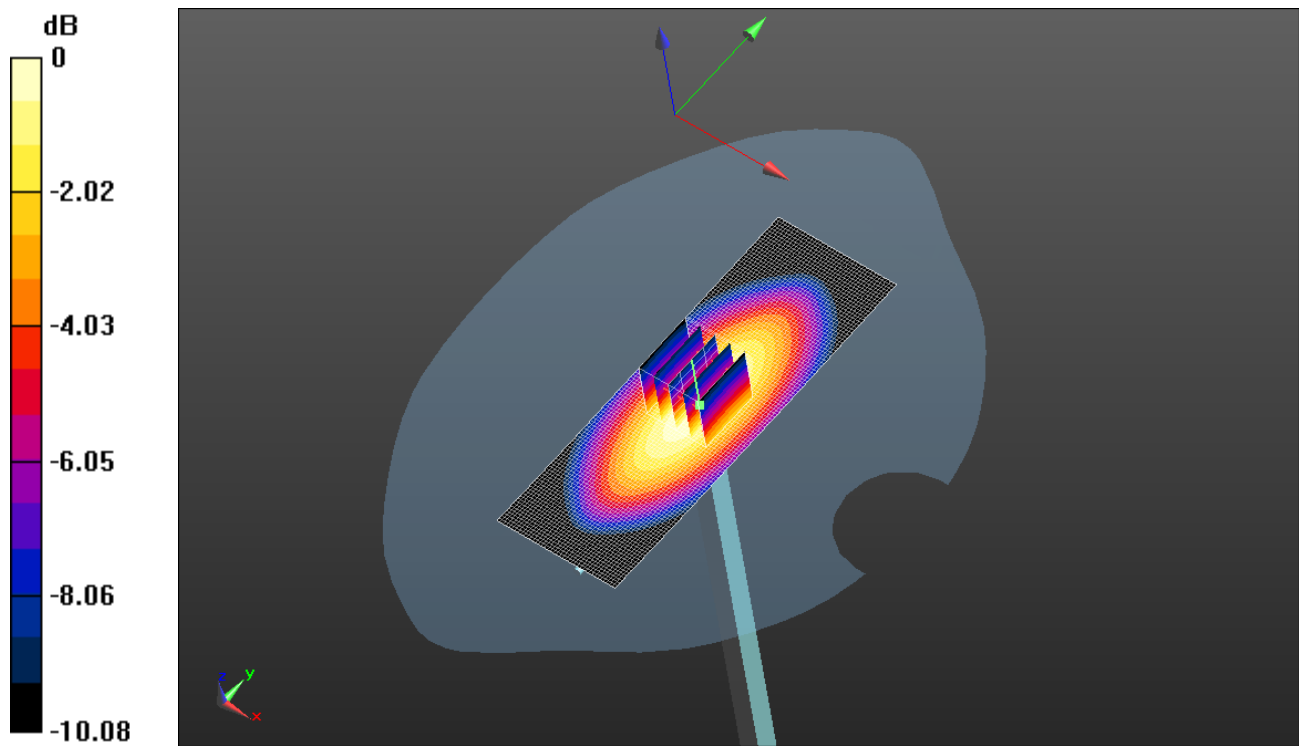
**0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $111.5 \text{ V/m}$ ; Power Drift =  $-0.05 \text{ dB}$

Peak SAR (extrapolated) =  $13.0 \text{ W/kg}$

**SAR(1 g) = 9.35 W/kg; SAR(10 g) = 6.22 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) =  $10.0 \text{ W/kg}$



0 dB = 10.0 W/kg = 10.00 dBW/kg

|                                                                                   |                                               |                                                                                                             |                               |                       |
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Date/Time: 10/22/2015 10:57:54 AM

Test Laboratory: BlackBerry RTS

## **DipoleValidation\_835MHz\_10\_22\_15\_Amb\_Tem\_24.3C\_Liq\_Tem\_22.4C**

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446**

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.896 \text{ S/m}$ ;  $\epsilon_r = 41.175$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.09, 6.09, 6.09); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequencies below 1 GHz/d=15mm,**  
**Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan (41x121x1):** Interpolated  
grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Reference Value =  $111.8 \text{ V/m}$ ; Power Drift =  $-0.05 \text{ dB}$

**Fast SAR: SAR(1 g) = 9.6 W/kg; SAR(10 g) = 6.39 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) =  $10.3 \text{ W/kg}$

**System Performance Check at Frequencies below 1 GHz/d=15mm,**  
**Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube**

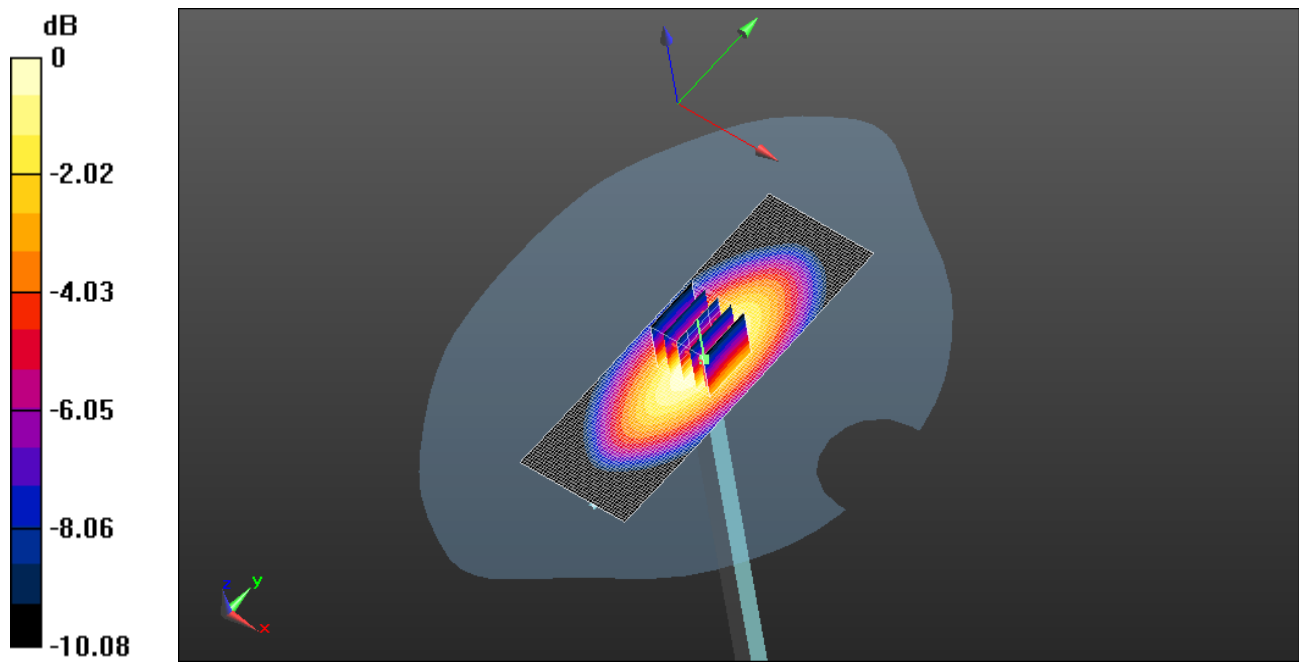
**0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $111.8 \text{ V/m}$ ; Power Drift =  $-0.05 \text{ dB}$

Peak SAR (extrapolated) =  $13.3 \text{ W/kg}$

**SAR(1 g) = 9.55 W/kg; SAR(10 g) = 6.37 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) =  $10.3 \text{ W/kg}$



0 dB = 10.3 W/kg = 10.13 dBW/kg

|                                                                                   |                                               |                                                                                                             |                               |                       |
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# 1900 MHz

Date/Time: 10/26/2015 2:27:51 AM

Test Laboratory: BlackBerry RTS

## DipoleValidation\_1900MHz\_10\_26\_15\_Amb\_Tem\_23.9C\_Liq\_Tem\_22.4C

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545**

Communication System: UID 0, CW (0); Frequency: 1900 MHz

Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.393 \text{ S/m}$ ;  $\epsilon_r = 38.514$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 3/13/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

## System Performance Check at Frequencies between 1 GHz - 2 GHz/d=10mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Area Scan

**(41x81x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Reference Value =  $182.0 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$

**Fast SAR: SAR(1 g) =  $37.5 \text{ W/kg}$ ; SAR(10 g) =  $19.7 \text{ W/kg}$**  (SAR corrected for target medium)

Maximum value of SAR (interpolated) =  $43.0 \text{ W/kg}$

## System Performance Check at Frequencies between 1 GHz - 2 GHz/d=10mm, Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7)

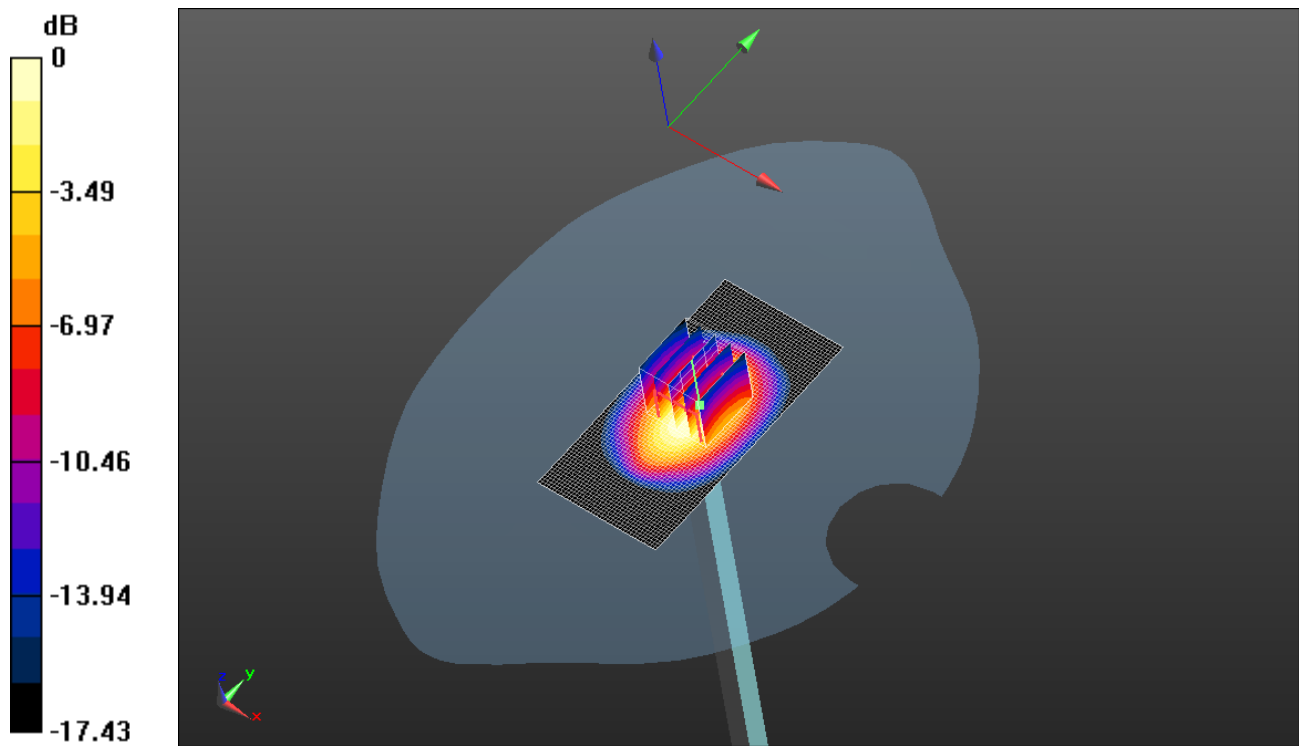
**(5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $182.0 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$

Peak SAR (extrapolated) =  $61.6 \text{ W/kg}$

**SAR(1 g) =  $36.8 \text{ W/kg}$ ; SAR(10 g) =  $19.8 \text{ W/kg}$**  (SAR corrected for target medium)

Maximum value of SAR (measured) =  $41.0 \text{ W/kg}$



0 dB = 41.0 W/kg = 16.13 dBW/kg

|                                                                                   |                                               |                                                                                                             |                               |                       |
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## Dipole Validation for model RHK211LW

|                                                                                   |                                               |                                                                                                             |                               |                       |
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## 2450 MHz

Date/Time: 9/4/2015 4:06:49 PM

Test Laboratory: BlackBerry RTS

**DipoleValidation\_2450MHz\_09\_04\_15\_Amb\_Tem\_23.8C\_Liq\_Tem\_23.0C**

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:747**

Communication System: UID 0, CW (0); Frequency: 2450 MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.828$  S/m;  $\epsilon_r = 37.433$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 2/25/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequencies between 2 GHz - 3**

**GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe)/Area Scan**

**(41x81x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Reference Value = 191.3 V/m; Power Drift = 0.00 dB

**Fast SAR: SAR(1 g) = 55.1 W/kg; SAR(10 g) = 25.9 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 73.8 W/kg

**System Performance Check at Frequencies between 2 GHz - 3**

**GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7)**

**(7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 191.3 V/m; Power Drift = 0.00 dB

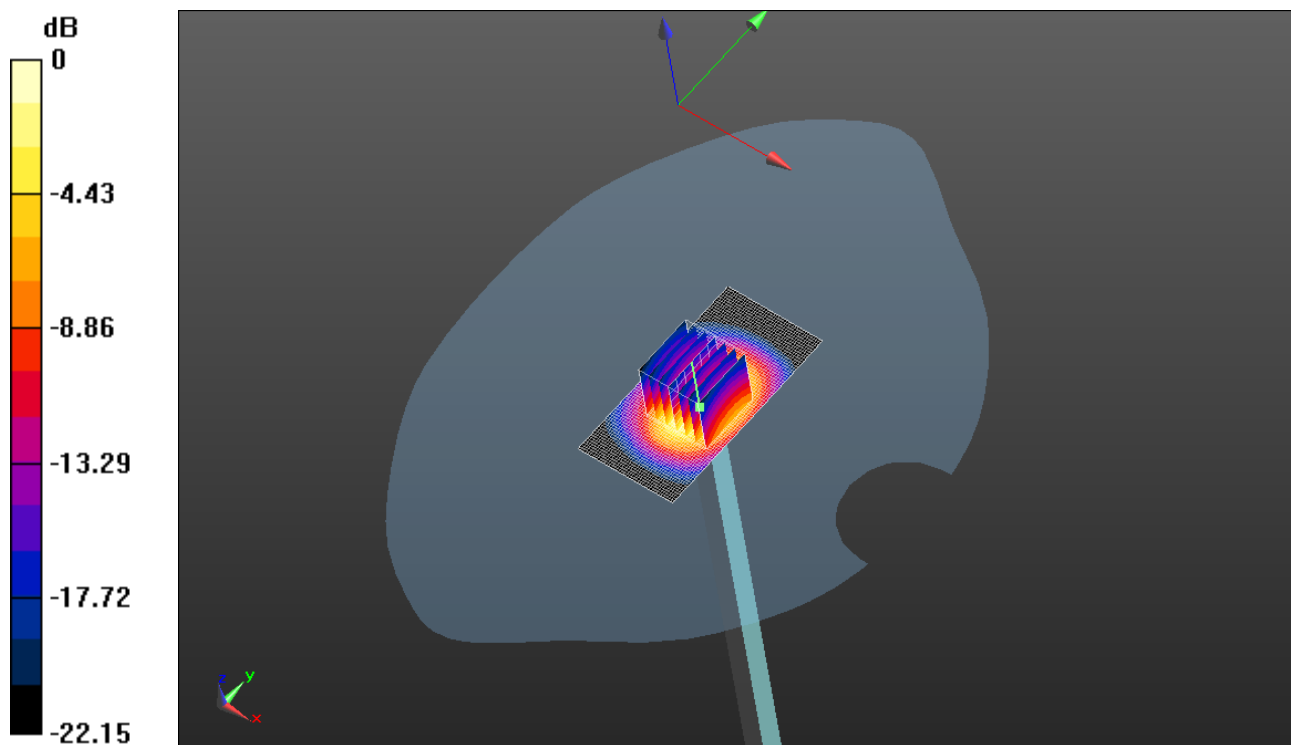


|                                                                                   |                                               |                                                                                                   |                               |                       |
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Peak SAR (extrapolated) = 110 W/kg

**SAR(1 g) = 54.3 W/kg; SAR(10 g) = 25.6 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 70.8 W/kg



0 dB = 70.8 W/kg = 18.50 dBW/kg

|                                                                                   |                                               |                                                                                                             |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                                   | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Date/Time: 9/15/2015 7:35:47 PM

Test Laboratory: BlackBerry RTS

**DipoleValidation\_2450MHz\_09\_15\_15\_Amb\_Tem\_23.9C\_Liq\_Tem\_22.9C**

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:747**

Communication System: UID 0, CW (0); Frequency: 2450 MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.822$  S/m;  $\epsilon_r = 37.915$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.6, 4.6, 4.6); Calibrated: 2/25/2015;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequencies between 2 GHz - 3**

**GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe) 2/Area Scan**

**(41x81x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Reference Value = 206.4 V/m; Power Drift = 0.00 dB

**Fast SAR: SAR(1 g) = 55.9 W/kg; SAR(10 g) = 26 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 74.0 W/kg

**System Performance Check at Frequencies between 2 GHz - 3**

**GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe) 2/Zoom Scan**

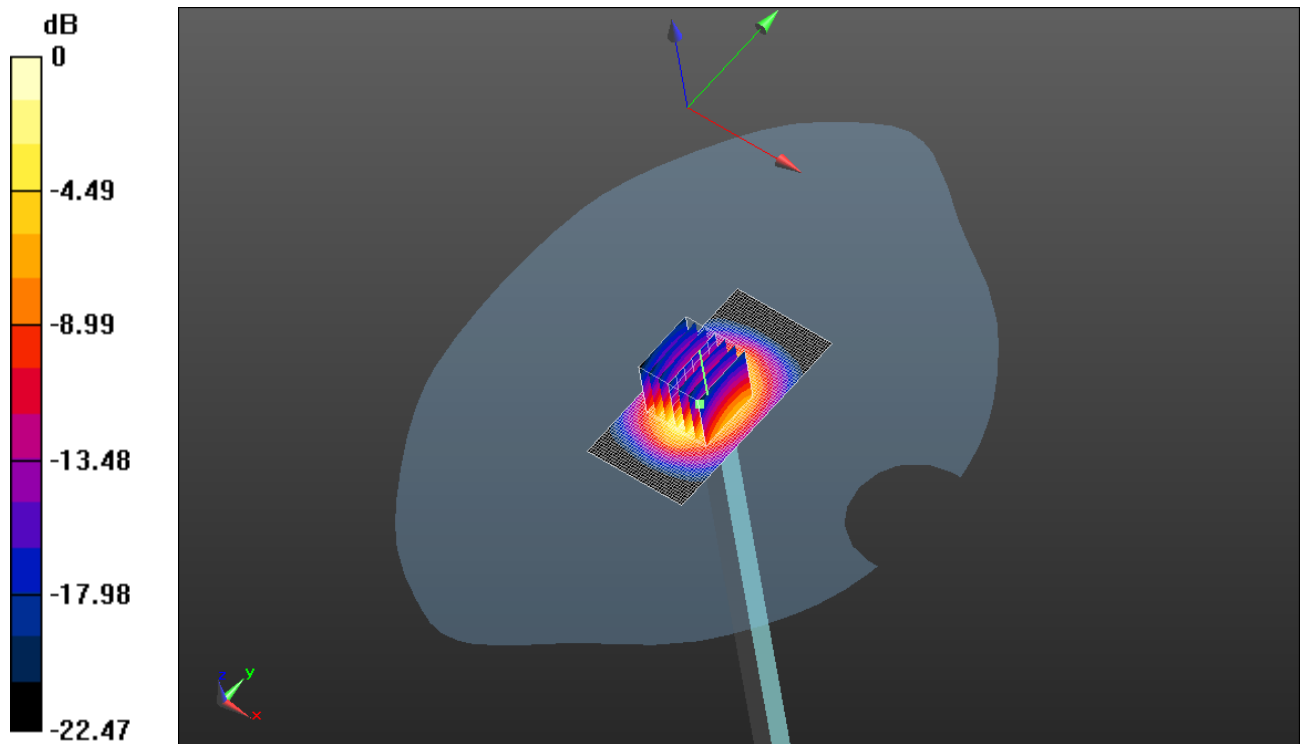
**(7x7x7) (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 206.4 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 110 W/kg

**SAR(1 g) = 54.8 W/kg; SAR(10 g) = 25.8 W/kg** (SAR corrected for target

medium)  
Maximum value of SAR (measured) = 71.3 W/kg



0 dB = 71.3 W/kg = 18.53 dBW/kg

|                                                                                   |                                               |                                                                                                             |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                                   | FCC ID:<br><b>L6ARHT180LW</b> |                       |

## 5000-6000 MHz

Date/Time: 9/9/2015 5:14:20 AM

Test Laboratory: BlackBerry RTS

### DipoleValidation\_5000MHz\_09\_09\_15\_Amb\_Tem\_23.7C\_Liq\_Tem\_22.6C

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN 1033**

Communication System: UID 0, CW; Frequency: 5200 MHz

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.715$  S/m;  $\epsilon_r = 34.347$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.63, 4.63, 4.63); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

### System Performance Check at Frequency 5200 MHz/d=10mm,

**Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1):** Interpolated  
grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Reference Value = 204.2 V/m; Power Drift = 0.01 dB

**Fast SAR: SAR(1 g) = 81.6 W/kg; SAR(10 g) = 22.8 W/kg**

Maximum value of SAR (interpolated) = 178 W/kg

### System Performance Check at Frequency 5200 MHz/d=10mm,

**Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12) (7x7x7)/Cube**

**0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 204.2 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 340 W/kg

**SAR(1 g) = 85.5 W/kg; SAR(10 g) = 24.7 W/kg**

Maximum value of SAR (measured) = 173 W/kg

|                                                                                   |                                               |                                                                                                             |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                                   | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Date/Time: 9/9/2015 7:17:50 AM

Test Laboratory: BlackBerry RTS

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033**

Communication System: UID 0, CW (0); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.093$  S/m;  $\epsilon_r = 34.139$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.2, 4.2, 4.2); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequency 5500 MHz/d=10mm,**

**Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1):** Interpolated

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

Reference Value = 203.3 V/m; Power Drift = -0.07 dB

**Fast SAR: SAR(1 g) = 85.8 W/kg; SAR(10 g) = 23.7 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 191 W/kg

**System Performance Check at Frequency 5500 MHz/d=10mm,**

**Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)**

**(7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 203.3 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 385 W/kg

**SAR(1 g) = 90.5 W/kg; SAR(10 g) = 25.9 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 192 W/kg

|                                                                                   |                                               |                                                                                                             |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                                   | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Date/Time: 9/9/2015 9:38:51 AM

Test Laboratory: BlackBerry RTS

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033**

Communication System: UID 0, CW (0); Frequency: 5800 MHz

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 5.464 \text{ S/m}$ ;  $\epsilon_r = 33.717$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.34, 4.34, 4.34); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequency 5800 MHz/d=10mm,**

**Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1):** Interpolated

grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Reference Value =  $194.6 \text{ V/m}$ ; Power Drift =  $0.03 \text{ dB}$

**Fast SAR: SAR(1 g) =  $82.7 \text{ W/kg}$ ; SAR(10 g) =  $23 \text{ W/kg}$**  (SAR corrected for target medium)

Maximum value of SAR (interpolated) =  $185 \text{ W/kg}$

**System Performance Check at Frequency 5800 MHz/d=10mm,**

**Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)**

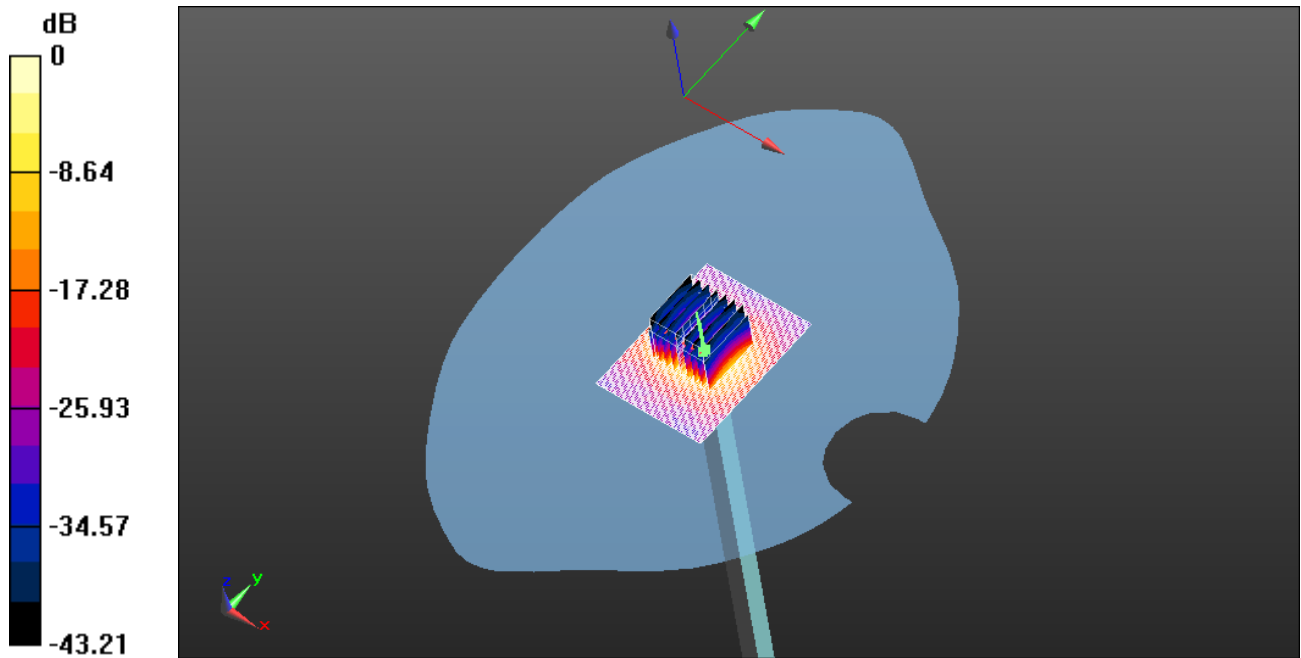
**(9x9x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value =  $194.6 \text{ V/m}$ ; Power Drift =  $0.03 \text{ dB}$

Peak SAR (extrapolated) =  $371 \text{ W/kg}$

**SAR(1 g) =  $85.8 \text{ W/kg}$ ; SAR(10 g) =  $24.6 \text{ W/kg}$**  (SAR corrected for target medium)

Maximum value of SAR (measured) =  $182 \text{ W/kg}$



0 dB = 182 W/kg = 22.60 dBW/kg

|                                                                                   |                                               |                                                                                                             |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                                   | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Date/Time: 9/14/2015 3:59:35 AM

Test Laboratory: BlackBerry RTS

## DipoleValidation\_5000MHz\_09\_14\_15\_Amb\_Tem\_23.9C\_Liq\_Tem\_22.8 C

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN 1033**

Communication System: UID 0, CW; Frequency: 5200 MHz

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.73$  S/m;  $\epsilon_r = 34.714$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.63, 4.63, 4.63); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequency 5200 MHz/d=10mm,  
Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1):** Interpolated  
grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Reference Value = 200.5 V/m; Power Drift = 0.04 dB  
**Fast SAR: SAR(1 g) = 78.4 W/kg; SAR(10 g) = 22 W/kg**  
Maximum value of SAR (interpolated) = 169 W/kg

**System Performance Check at Frequency 5200 MHz/d=10mm,  
Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12) (7x7x7)/Cube  
0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 200.5 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 333 W/kg  
**SAR(1 g) = 83.9 W/kg; SAR(10 g) = 24.3 W/kg**  
Maximum value of SAR (measured) = 170 W/kg



|                                                                                   |                                               |                                                                                                             |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                                   | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Date/Time: 9/14/2015 4:19:20 AM

Test Laboratory: BlackBerry RTS

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033**

Communication System: UID 0, CW (0); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.086$  S/m;  $\epsilon_r = 34.207$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.2, 4.2, 4.2); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequency 5500 MHz/d=10mm,**

**Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1):** Interpolated

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

Reference Value = 205.8 V/m; Power Drift = -0.04 dB

**Fast SAR: SAR(1 g) = 85.6 W/kg; SAR(10 g) = 23.9 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 188 W/kg

**System Performance Check at Frequency 5500 MHz/d=10mm,**

**Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)**

**(7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 205.8 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 371 W/kg

**SAR(1 g) = 90 W/kg; SAR(10 g) = 26.1 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 186 W/kg

|                                                                                   |                                               |                                                                                                             |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                                   | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Date/Time: 9/14/2015 6:03:23 AM

Test Laboratory: BlackBerry RTS

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1033**

Communication System: UID 0, CW (0); Frequency: 5800 MHz

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 5.442 \text{ S/m}$ ;  $\epsilon_r = 33.66$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.34, 4.34, 4.34); Calibrated: 11/10/2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**System Performance Check at Frequency 5800 MHz/d=10mm,**

**Pin=1000mW, dist=2.0mm (EX-Probe)/Area Scan (61x81x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Reference Value = 192.3 V/m; Power Drift = 0.08 dB

**Fast SAR: SAR(1 g) = 83 W/kg; SAR(10 g) = 22.8 W/kg** (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 186 W/kg

**System Performance Check at Frequency 5800 MHz/d=10mm,**

**Pin=1000mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x12)**

**(9x9x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

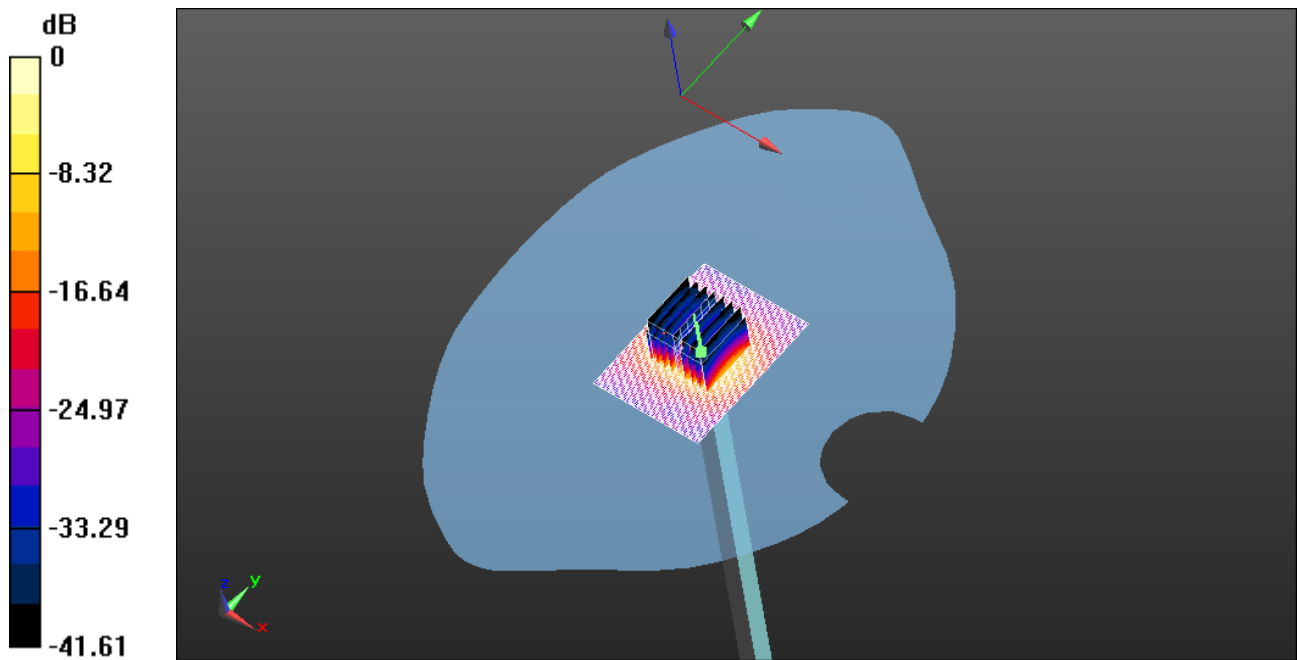
Reference Value = 192.3 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 366 W/kg

**SAR(1 g) = 84.1 W/kg; SAR(10 g) = 24.2 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 179 W/kg

|                                                                                   |                                               |                                                                                                   |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |                       |



0 dB = 179 W/kg = 22.53 dBW/kg

|                                                                                   |                                               |                                                                                                        |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                              | FCC ID:<br><b>L6ARHT180LW</b> |                       |

## Dipole Validation for model RHM181LW

|                                                                                   |  |                                                                                                   |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               |  | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b>                                                     | Test Report No<br><b>RTS-6066-1511-01</b> | FCC ID:<br><b>L6ARHT180LW</b> |                       |

# 1750 MHz



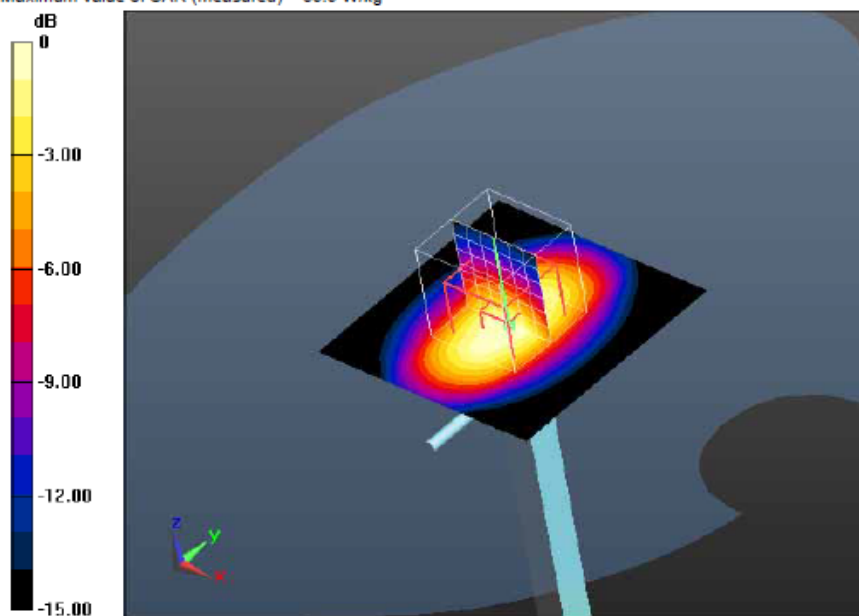
Date/Time: 7/31/2015 11:26:22 AM

## SystemPerformanceCheck-D1750 head 2015-07-31

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1093  
Communication System: UID 0, CW (0); Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.349$  S/m;  $\epsilon_r = 38.864$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASYS  
DASY5 Configuration:  
- Probe: ES3DV3 - SN3326; ConvF(5.26, 5.26, 5.26); Calibrated: 8/18/2014;  
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.0, 32.0$   
- Electronics: DAE4 Sn1387; Calibrated: 8/12/2014  
- Phantom: SAM front; Type: QD000P40CC; Serial: TP:1041  
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**HSL1750/d=10mm, Pin=1000mW/Area Scan (51x51x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 44.0 W/kg

**HSL1750/d=10mm, Pin=1000mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  
 $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 174.6 V/m; Power Drift = -0.04 dB  
Peak SAR (extrapolated) = 62.9 W/kg  
SAR(1 g) = 35.4 W/kg; SAR(10 g) = 19 W/kg  
Maximum value of SAR (measured) = 39.9 W/kg



0 dB = 39.9 W/kg = 16.01 dBW/kg

Additional information:  
ambient temperature: 23.4°C; liquid temperature: 22.5°C

|                                                                                   |                                               |                                                                                                   |                               |  |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |  |                       |

Test report no.: 1-0042/15-01-15-A

**CETECOM**<sup>TM</sup>

Date/Time: 04.08.2015 11:37:48

### SystemPerformanceCheck-D1750 HSL 2015-08-04

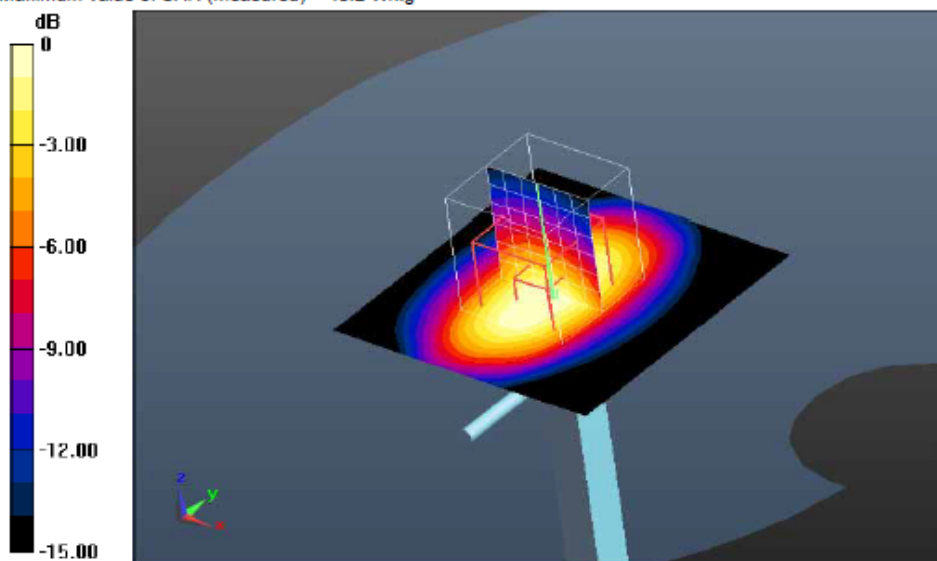
DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1093  
Communication System: UID 0, CW (0); Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.349$  S/m;  $\epsilon_r = 38.864$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASY5  
DASY5 Configuration:  
- Probe: ES3DV3 - SN3320; ConvF(5.19, 5.19, 5.19); Calibrated: 25.02.2015;  
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.0, 32.0$   
- Electronics: DAE3 Sn413; Calibrated: 15.01.2015  
- Phantom: SAM front; Type: QD000P40CC; Serial: TP-1041  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

### HSL1750/d=10mm, Pin=1000 mW, dist=3.0mm/Area Scan (51x51x1): Interpolated

grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 46.4 W/kg

### HSL1750/d=10mm, Pin=1000 mW, dist=3.0mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 174.5 V/m; Power Drift = -0.03 dB  
Peak SAR (extrapolated) = 64.9 W/kg  
SAR(1 g) = 36 W/kg; SAR(10 g) = 19.3 W/kg  
Maximum value of SAR (measured) = 40.2 W/kg



0 dB = 40.2 W/kg = 16.04 dBW/kg

#### Additional information:

ambient temperature: 23.8°C; liquid temperature: 22.9°C

|                                                                                   |  |                                                                                                   |                                           |                               |                       |
|-----------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------|-----------------------|
|  |  | Document<br><b>Appendix A for the BlackBerry® Smartphone Model RHT181LW (STV100-2) SAR Report</b> |                                           |                               | Page<br><b>31(46)</b> |
| Author Data<br><b>Andrew Becker</b>                                               |  | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b>                                                     | Test Report No<br><b>RTS-6066-1511-01</b> | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Test report no.: 1-0042/15-01-15-A

**CETECOM**<sup>TM</sup>

Date/Time: 7/29/2015 2:49:20 PM

### SystemPerformanceCheck-D1750 MSL 2015-07-29

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1093

Communication System: UID 0, CW (0); Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.549$  S/m;  $\epsilon_r = 52.011$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

Measurement Standard: DASYS

DASY5 Configuration:

- Probe: ES3DV3 - SN3326; ConvF(4.88, 4.88, 4.88); Calibrated: 8/18/2014;

- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$

- Electronics: DAE4 Sn1387; Calibrated: 8/12/2014

- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1154

- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**HSL1750/d=10mm, Pin=1000mW/Area Scan (51x51x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 49.8 W/kg

**HSL1750/d=10mm, Pin=1000mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

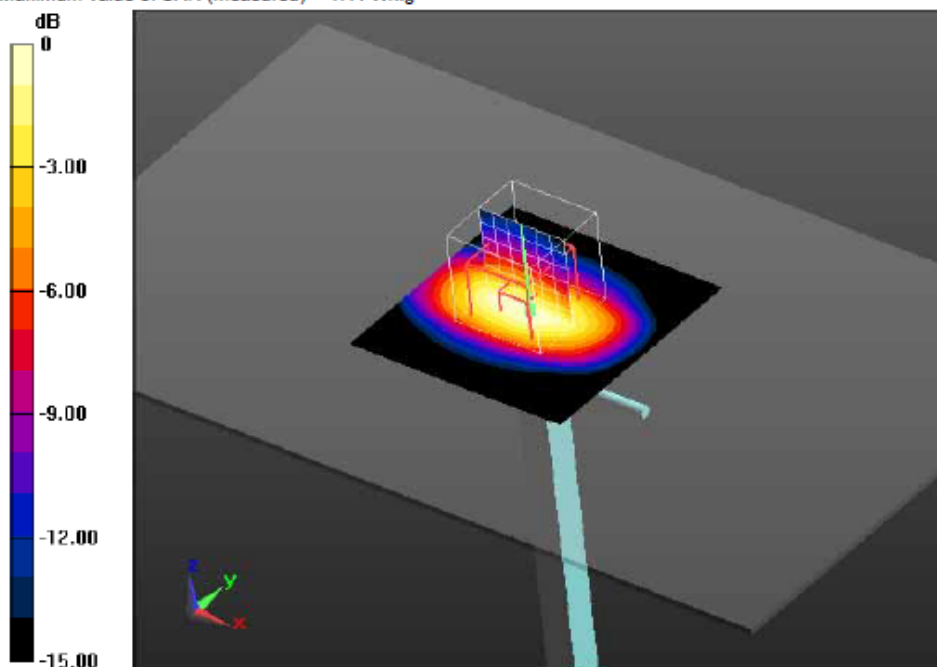
$dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 176.1 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 66.5 W/kg

SAR(1 g) = 37.7 W/kg; SAR(10 g) = 20.1 W/kg

Maximum value of SAR (measured) = 47.4 W/kg



0 dB = 47.4 W/kg = 16.76 dBW/kg

Additional information:

ambient temperature: 23.5°C; liquid temperature: 22.6°C

|                                                                                   |                                               |                                                                                                   |                               |  |                       |
|-----------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------|--|-----------------------|
|  |                                               | Document<br><b>Appendix A for the BlackBerry® Smartphone Model RHT181LW (STV100-2) SAR Report</b> |                               |  | Page<br><b>32(46)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |  |                       |

Test report no.: 1-0042/15-01-15-A

**CETECOM**<sup>TM</sup>

Date/Time: 17.08.2015 07:50:32

### SystemPerformanceCheck-D1750 body 2015-08-17

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1093

Communication System: UID 0, CW (0); Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.171$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

Measurement Standard: DASY5

DASY5 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(4.81, 4.81, 4.81); Calibrated: 19.05.2015;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface:

4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$

- Electronics: DAE3 Sn477; Calibrated: 22.05.2015

- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1154

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

### MSL1750/d=10mm, Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=1.500 mm,

dy=1.500 mm

Maximum value of SAR (interpolated) = 4.98 W/kg

### MSL1750/d=10mm, Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

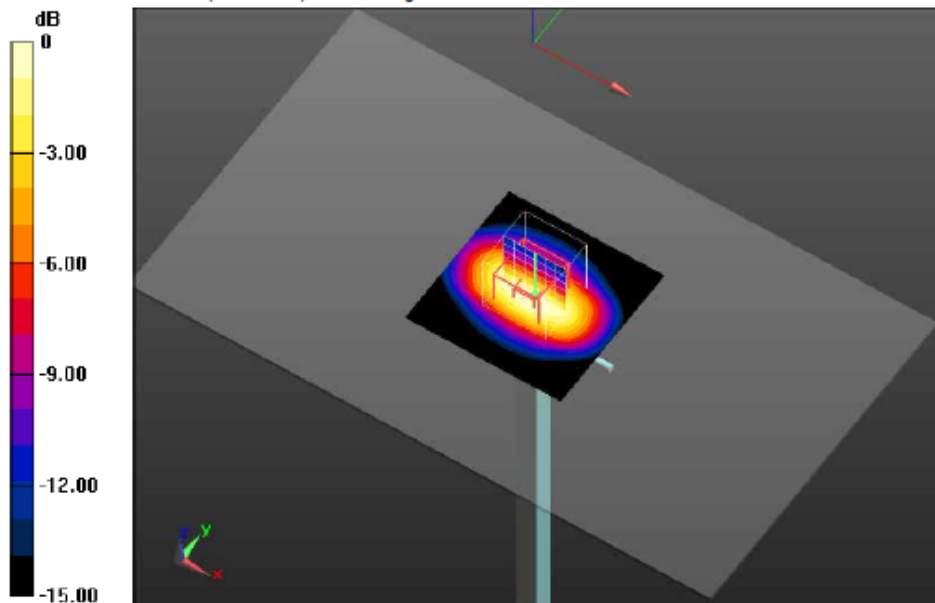
dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.043 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 5.22 W/kg

SAR(1 g) = 3.58 W/kg; SAR(10 g) = 2 W/kg

Maximum value of SAR (measured) = 4.07 W/kg



0 dB = 4.07 W/kg = 6.10 dBW/kg

Additional information:

ambient temperature: 21.9°C; liquid temperature: 21.4°C



|                                                                                   |                                               |                                                                                                   |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Test report no.: 1-0042/15-01-15-A



Date/Time: 18.08.2015 10:03:41

### SystemPerformanceCheck-D1750 body 2015-08-18

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1093

Communication System: UID 0, CW (0); Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.171$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

Measurement Standard: DASY5

DASY5 Configuration:

- Probe: ET3DV6 - SN1554; ConvF(4.81, 4.81, 4.81); Calibrated: 19.05.2015;

- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$

- Electronics: DAE3 Sn477; Calibrated: 22.05.2015

- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1154

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**MSL1750/d=10mm, Pin=100mW/Area Scan (51x51x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 4.97 W/kg

**MSL1750/d=10mm, Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

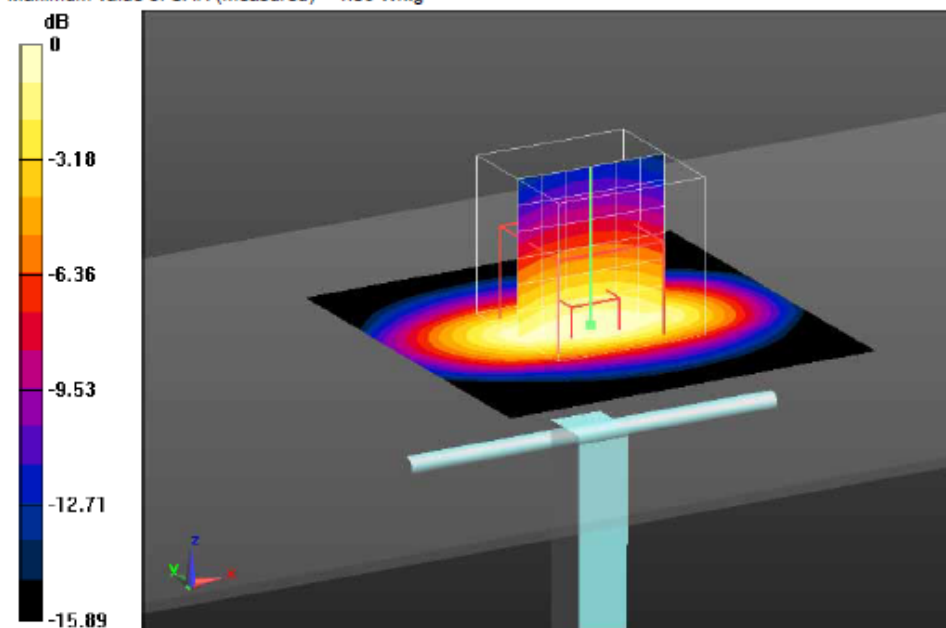
$dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 56.031 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 5.21 W/kg

SAR(1 g) = 3.58 W/kg; SAR(10 g) = 2 W/kg

Maximum value of SAR (measured) = 4.06 W/kg



0 dB = 4.06 W/kg = 6.09 dBW/kg

Additional information:

position or distance of DUT to SAM: 0 mm

ambient temperature: °C; liquid temperature: °C

|                                                                                   |                                               |                                                                                                   |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Test report no.: 1-0042/15-01-15-A

**CETECOM**<sup>TM</sup>

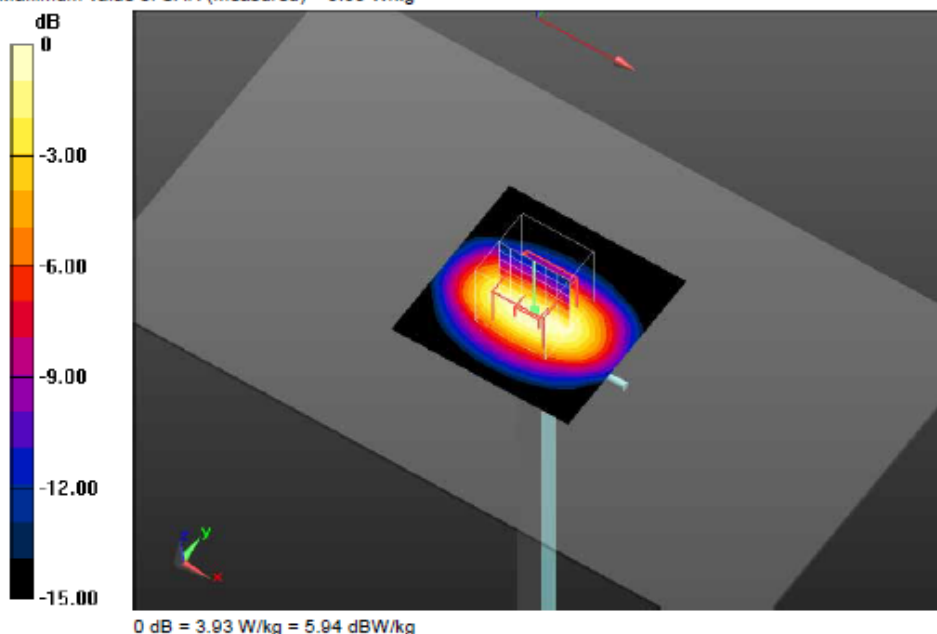
Date/Time: 19.08.2015 15:32:52

### SystemPerformanceCheck-D1750 body 2015-08-19

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1093  
Communication System: UID 0, CW (0); Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.171$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Center Section  
Measurement Standard: DASY5  
DASY5 Configuration:  
- Probe: ET3DV6 - SN1554; ConvF(4.81, 4.81, 4.81); Calibrated: 19.05.2015;  
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.7, 32.7$   
- Electronics: DAE3 Sn477; Calibrated: 22.05.2015  
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1154  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**MSL1750/d=10mm, Pin=100mW/Area Scan (51x51x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 4.65 W/kg

**MSL1750/d=10mm, Pin=100mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 53.631 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 5.04 W/kg  
SAR(1 g) = 3.46 W/kg; SAR(10 g) = 1.93 W/kg  
Maximum value of SAR (measured) = 3.93 W/kg



Additional information:  
ambient temperature: 23.1°C; liquid temperature: 21.0°C

|                                                                                   |  |                                                                                                   |                                           |                               |                       |
|-----------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------|-----------------------|
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| Author Data<br><b>Andrew Becker</b>                                               |  | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b>                                                     | Test Report No<br><b>RTS-6066-1511-01</b> | FCC ID:<br><b>L6ARHT180LW</b> |                       |

# 1900 MHz



Date/Time: 29.07.2015 13:25:19

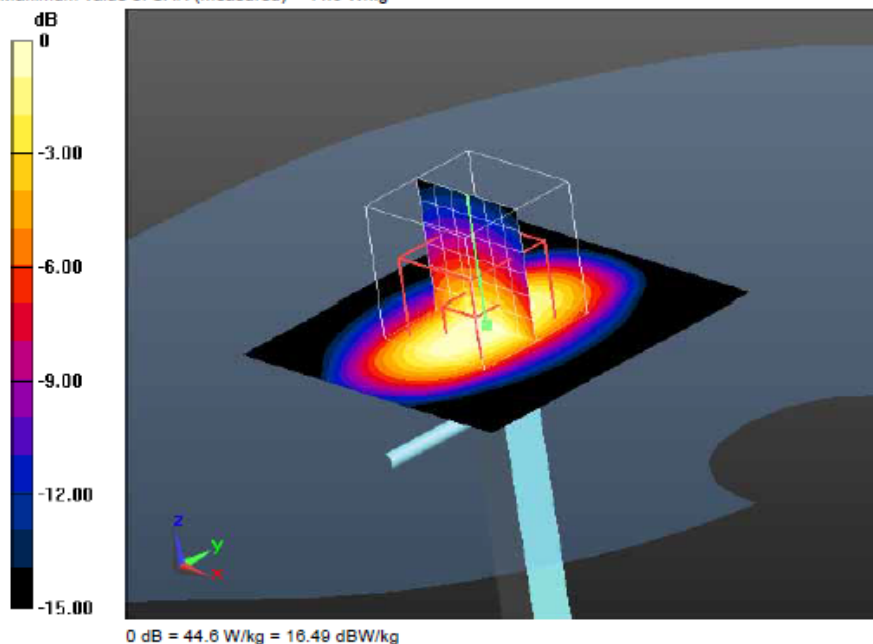
## SystemPerformanceCheck-D1900 HSL 2015-07-29

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009  
Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.381$  S/m;  $\epsilon_r = 39.929$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASY5  
DASY5 Configuration:  
- Probe: ES3DV3 - SN3320; ConvF(5.04, 5.04, 5.04); Calibrated: 25.02.2015;  
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.0, 32.0$   
- Electronics: DAE3 Sn413; Calibrated: 15.01.2015  
- Phantom: SAM front; Type: QD000P40CC; Serial: TP-1041  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**HSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Area Scan (51x51x1):** Interpolated  
grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 52.2 W/kg

## HSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 181.1 V/m; Power Drift = 0.08 dB  
Peak SAR (extrapolated) = 71.5 W/kg  
SAR(1 g) = 39.5 W/kg; SAR(10 g) = 20.8 W/kg  
Maximum value of SAR (measured) = 44.6 W/kg



0 dB = 44.6 W/kg = 16.49 dBW/kg

Additional information:  
ambient temperature: 23.4°C; liquid temperature: 22.2°C

|                                                                                   |  |                                                                                                   |                                           |                               |                       |
|-----------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------|-----------------------|
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| Author Data<br><b>Andrew Becker</b>                                               |  | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b>                                                     | Test Report No<br><b>RTS-6066-1511-01</b> | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Test report no.: 1-0042/15-01-15-A



Date/Time: 30.07.2015 08:54:08

### SystemPerformanceCheck-D1900 HSL 2015-07-30

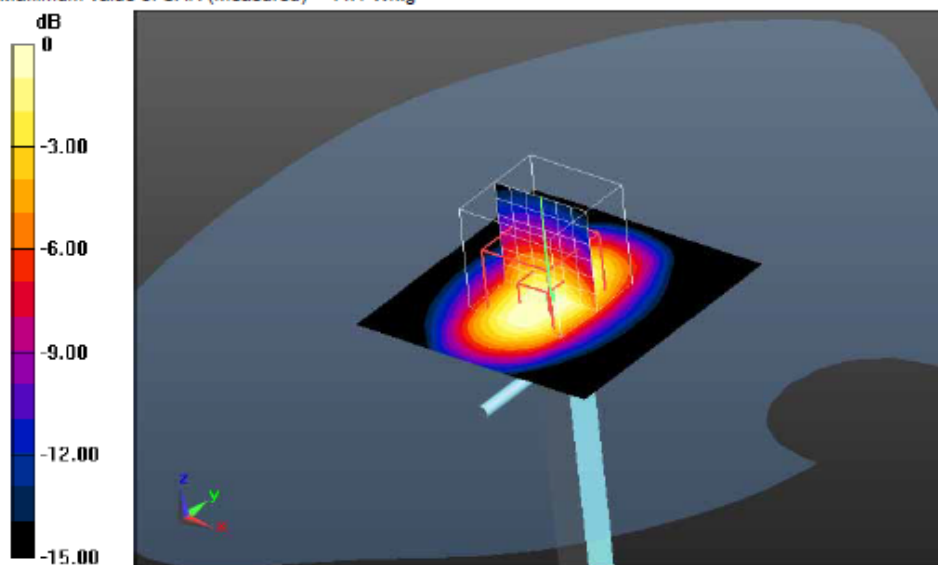
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009  
Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.381$  S/m;  $\epsilon_r = 39.929$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASY5  
DASY5 Configuration:  
- Probe: ES3DV3 - SN3320; ConvF(5.04, 5.04, 5.04); Calibrated: 25.02.2015;  
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 2.0, 32.0$   
- Electronics: DAE3 Sn413; Calibrated: 15.01.2015  
- Phantom: SAM front; Type: QD000P40CC; Serial: TP-1041  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

### HSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Area Scan (51x51x1): Interpolated

grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 52.6 W/kg

### HSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 180.3 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 70.6 W/kg  
SAR(1 g) = 39.2 W/kg; SAR(10 g) = 20.7 W/kg  
Maximum value of SAR (measured) = 44.1 W/kg



0 dB = 44.1 W/kg = 16.44 dBW/kg

#### Additional information:

ambient temperature: 23.4°C; liquid temperature: 22.2°C

|                                                                                   |                                               |                                                                                                   |                               |  |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |  |                       |



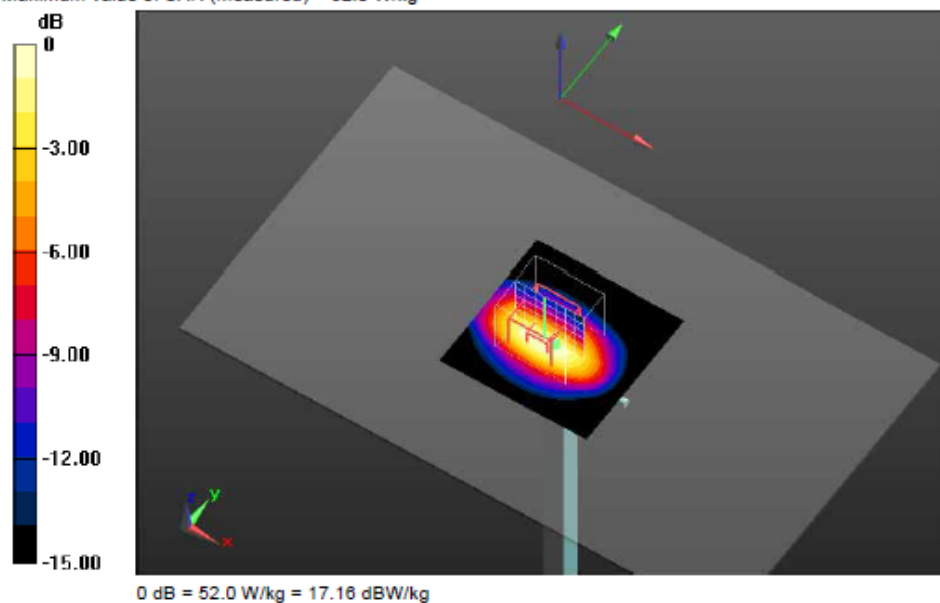
Date/Time: 14.08.2015 13:44:27

### SystemPerformanceCheck-D1900 MSL 2015-08-14

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009  
Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.522$  S/m;  $\epsilon_r = 53.659$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Center Section  
Measurement Standard: DASYS  
DASY5 Configuration:  
- Probe: ES3DV3 - SN3320; ConvF(4.54, 4.54, 4.54); Calibrated: 25.02.2015;  
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$   
- Electronics: DAE3 Sn413; Calibrated: 15.01.2015  
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1154  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**HSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Area Scan (51x51x1):** Interpolated  
grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 56.7 W/kg

**HSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Zoom Scan (8x7x7)/Cube 0:**  
Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 180.8 V/m; Power Drift = -0.03 dB  
Peak SAR (extrapolated) = 70.6 W/kg  
SAR(1 g) = 41.3 W/kg; SAR(10 g) = 22.1 W/kg  
Maximum value of SAR (measured) = 52.0 W/kg



Additional information:  
ambient temperature: 23.8°C; liquid temperature: 23.4°C

|                                                                                   |  |                                                                                                   |                                           |                               |                       |
|-----------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------|-----------------------|
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| Author Data<br><b>Andrew Becker</b>                                               |  | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b>                                                     | Test Report No<br><b>RTS-6066-1511-01</b> | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Test report no.: 1-0042/15-01-15-A

**CETECOM**<sup>TM</sup>

Date/Time: 17.08.2015 12:32:39

### SystemPerformanceCheck-D1900 MSL 2015-08-17

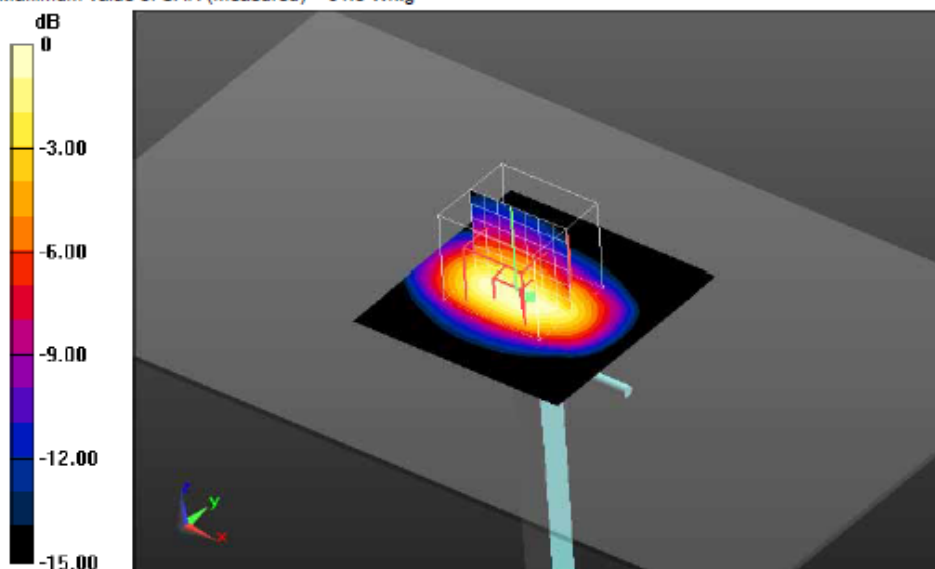
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009  
Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.522$  S/m;  $\epsilon_r = 53.659$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Center Section  
Measurement Standard: DASY5  
DASY5 Configuration:  
- Probe: ES3DV3 - SN3320; ConvF(4.54, 4.54, 4.54); Calibrated: 25.02.2015;  
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$   
- Electronics: DAE3 Sn413; Calibrated: 15.01.2015  
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1154  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

### MSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Area Scan (51x51x1): Interpolated

grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 60.9 W/kg

### MSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Zoom Scan (8x7x7)/Cube 0:

Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 188.5 V/m; Power Drift = 0.07 dB  
Peak SAR (extrapolated) = 71.6 W/kg  
SAR(1 g) = 41.2 W/kg; SAR(10 g) = 21.9 W/kg  
Maximum value of SAR (measured) = 51.8 W/kg



0 dB = 51.8 W/kg = 17.14 dBW/kg

#### Additional information:

ambient temperature: 21.3°C; liquid temperature: 21.3°C



|                                                                                   |                                               |                                                                                                   |                               |  |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |  |                       |



Date/Time: 18.08.2015 11:17:16

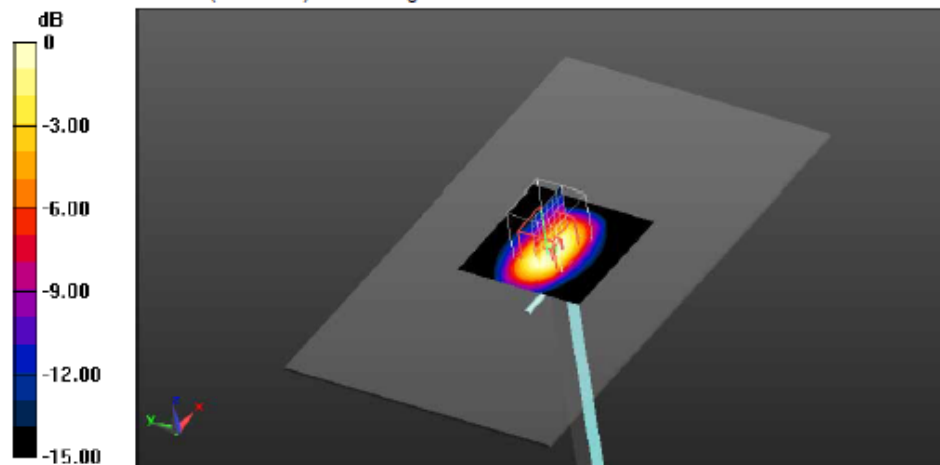
### SystemPerformanceCheck-D1900 MSL 2015-08-18

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009  
Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.522$  S/m;  $\epsilon_r = 53.659$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Center Section  
Measurement Standard: DASY5  
DASY5 Configuration:  
- Probe: ES3DV3 - SN3320; ConvF(4.54, 4.54, 4.54); Calibrated: 25.02.2015;  
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$   
- Electronics: DAE3 Sn413; Calibrated: 15.01.2015  
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1154  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**MSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Area Scan (51x51x1): Interpolated**  
grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 62.5 W/kg

### MSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 191.0 V/m; Power Drift = -0.04 dB  
Peak SAR (extrapolated) = 73.0 W/kg  
SAR(1 g) = 42.1 W/kg; SAR(10 g) = 22.3 W/kg  
Maximum value of SAR (measured) = 53.1 W/kg



0 dB = 53.1 W/kg = 17.25 dBW/kg

Additional information:  
ambient temperature: 22.2°C; liquid temperature: 22.4°C

|                                                                                   |                                               |                                                                                                   |                               |                       |
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|  |                                               | Document<br><b>Appendix A for the BlackBerry® Smartphone Model RHT181LW (STV100-2) SAR Report</b> |                               | Page<br><b>40(46)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Test report no.: 1-0042/15-01-15-A

**CETECOM**<sup>TM</sup>

Date/Time: 19.08.2015 10:31:31

### SystemPerformanceCheck-D1900 MSL 2015-08-19

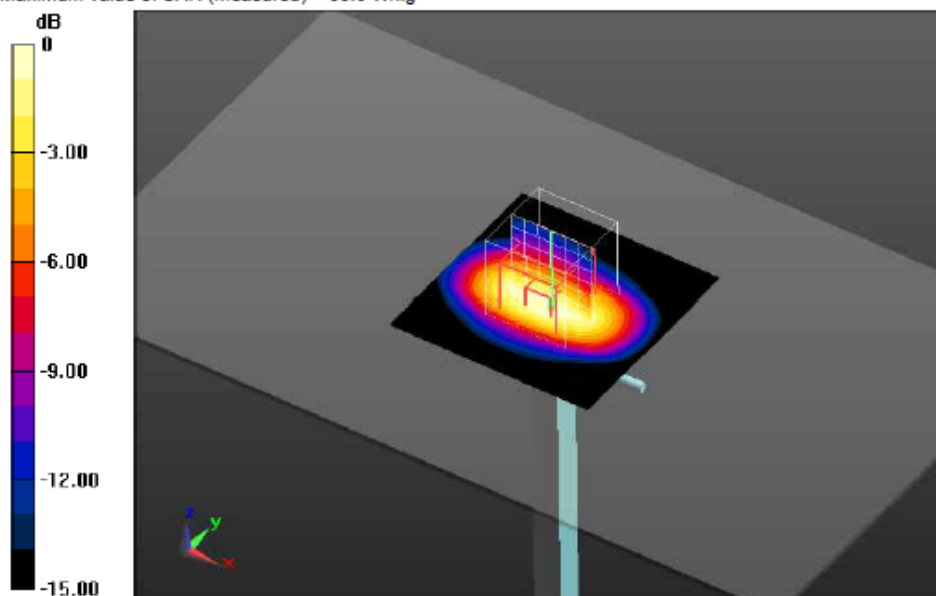
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009  
Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.522$  S/m;  $\epsilon_r = 53.659$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Center Section  
Measurement Standard: DASY5  
DASY5 Configuration:  
- Probe: ES3DV3 - SN3320; ConvF(4.54, 4.54, 4.54); Calibrated: 25.02.2015;  
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$   
- Electronics: DAE3 Sn413; Calibrated: 15.01.2015  
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1154  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

### MSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Area Scan (51x51x1): Interpolated

grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 64.8 W/kg

### MSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 193.9 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 73.5 W/kg  
SAR(1 g) = 42.5 W/kg; SAR(10 g) = 22.6 W/kg  
Maximum value of SAR (measured) = 53.6 W/kg



0 dB = 53.6 W/kg = 17.29 dBW/kg

#### Additional information:

ambient temperature: 22.3°C; liquid temperature: 22.3°C



|                                                                                   |                                               |                                                                                                   |                               |                       |
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|  |                                               | Document<br><b>Appendix A for the BlackBerry® Smartphone Model RHT181LW (STV100-2) SAR Report</b> |                               | Page<br><b>41(46)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Test report no.: 1-0042/15-01-15-A

**CETECOM**<sup>TM</sup>

Date/Time: 29.08.2015 12:29:53

### SystemPerformanceCheck-D1900 MSL 2015-08-29

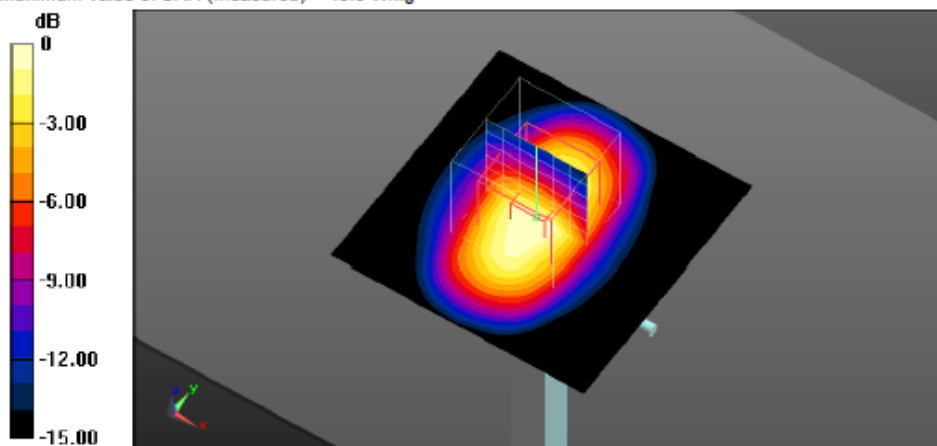
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009  
Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.499$  S/m;  $\epsilon_r = 52.727$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Center Section  
Measurement Standard: DASYS  
DASY5 Configuration:  
- Probe: EX3DV4 - SN3944; ConvF(7.91, 7.91, 7.91); Calibrated: 14.08.2015;  
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
- Electronics: DAE3 Sn413; Calibrated: 15.01.2015  
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1154  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

### MSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Area Scan (51x51x1): Interpolated

grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 57.9 W/kg

### MSL1900/d=10mm, Pin=1000 mW, dist=3.0mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 180.1 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 68.1 W/kg  
SAR(1 g) = 38.6 W/kg; SAR(10 g) = 20.6 W/kg  
Maximum value of SAR (measured) = 48.8 W/kg



0 dB = 48.8 W/kg = 16.88 dBW/kg

#### Additional information:

ambient temperature: 23.8°C; liquid temperature: 22.4°C

|                                                                                   |                                               |                                                                                                   |                               |                       |
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|  |                                               | Document<br><b>Appendix A for the BlackBerry® Smartphone Model RHT181LW (STV100-2) SAR Report</b> |                               | Page<br><b>42(46)</b> |
| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |                       |

## 2600 MHz



Date/Time: 04.08.2015 11:52:36

### SystemPerformanceCheck-D2600 head 2015-08-04

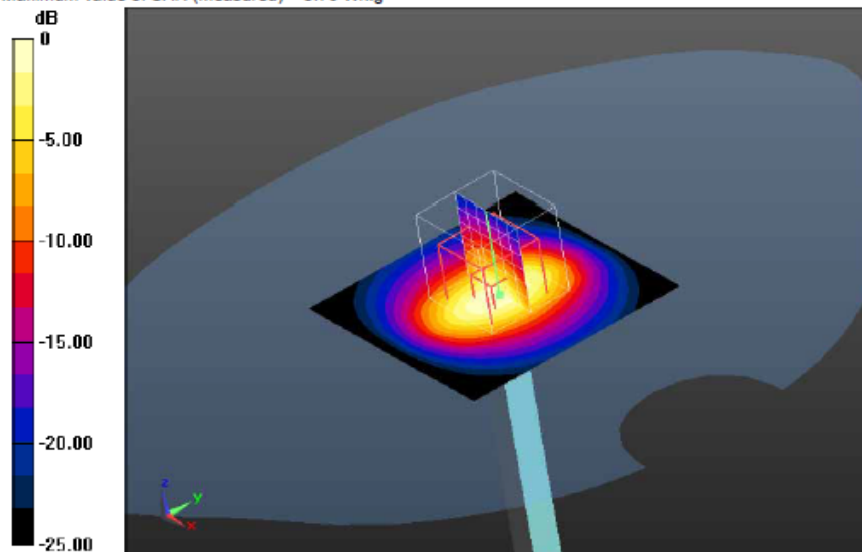
DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1040  
Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.899$  S/m;  $\epsilon_r = 37.827$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Measurement Standard: DASY5  
DASY5 Configuration:  
- Probe: EX3DV4 - SN3944; ConvF(7.33, 7.33, 7.33); Calibrated: 19.08.2014;  
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
- Electronics: DAE3 Sn477; Calibrated: 22.05.2015  
- Phantom: SAM; Type: SAM; Serial: 1043  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

### HSL2450\_2600/d=10mm, Pin=100 mW, dist=2.0mm/Area Scan (81x81x1):

Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 8.83 W/kg

### HSL2450\_2600/d=10mm, Pin=100 mW, dist=2.0mm/Zoom Scan (7x7x7)/Cube

0: Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 69.139 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 12.1 W/kg  
SAR(1 g) = 5.58 W/kg; SAR(10 g) = 2.47 W/kg  
Maximum value of SAR (measured) = 8.76 W/kg



0 dB = 8.76 W/kg = 9.43 dBW/kg

Additional information:  
ambient temperature: 22.8°C; liquid temperature: 21.4°C

|                                                                                   |                                               |                                                                                                   |                               |  |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |  |                       |

Test report no.: 1-0042/15-01-15-A

**CETECOM**<sup>TM</sup>

Date/Time: 01.09.2015 09:18:49

### SystemPerformanceCheck-D2600 HSL 2015-09-01

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1040

Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.959$  S/m;  $\epsilon_r = 38.434$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5

DASY5 Configuration:

- Probe: EX3DV4 - SN3944; ConvF(7.15, 7.15, 7.15); Calibrated: 14.08.2015;
- Sensor-Surface: 2mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn413; Calibrated: 15.01.2015
- Phantom: SAM front; Type: QD000P40CC; Serial: TP-1041
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

### HSL2600/d=10mm, Pin=1000 mW, dist=2.0mm/Area Scan (71x61x1): Interpolated

grid:  $dx=1.000$  mm,  $dy=1.100$  mm

Maximum value of SAR (interpolated) = 92.7 W/kg

### HSL2600/d=10mm, Pin=1000 mW, dist=2.0mm/Zoom Scan (7x7x7)/Cube 0:

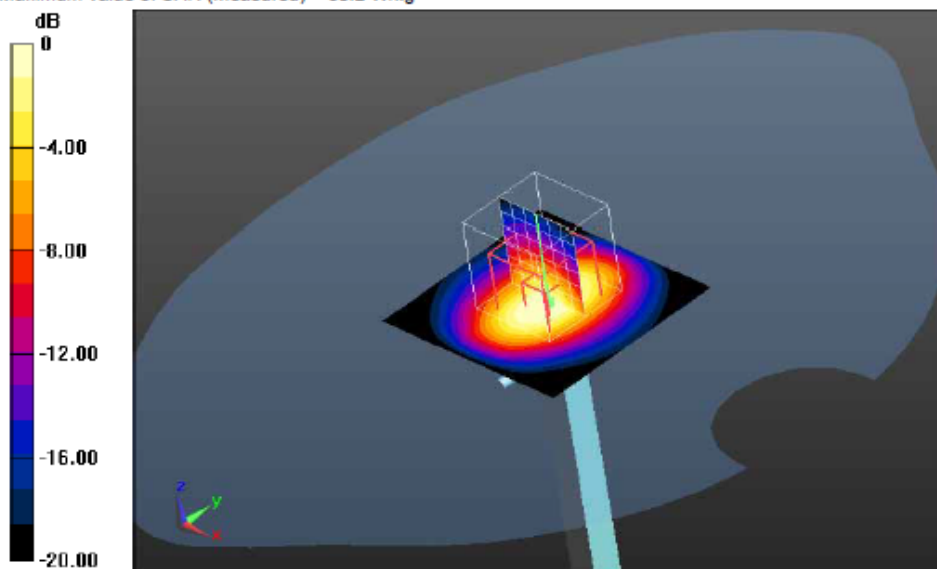
Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 202.6 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 126 W/kg

SAR(1 g) = 59.8 W/kg; SAR(10 g) = 27.1 W/kg

Maximum value of SAR (measured) = 80.2 W/kg



0 dB = 80.2 W/kg = 19.04 dBW/kg

Additional information:

ambient temperature: 23.8°C; liquid temperature: 23.3°C

|                                                                                   |  |                                                                                                   |                                           |                               |                       |
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| Author Data<br><b>Andrew Becker</b>                                               |  | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b>                                                     | Test Report No<br><b>RTS-6066-1511-01</b> | FCC ID:<br><b>L6ARHT180LW</b> |                       |

Test report no.: 1-0042/15-01-15-A

**CETECOM**<sup>TM</sup>

Date/Time: 03.09.2015 14:03:04

### SystemPerformanceCheck-D2600 MSL 2015-09-03

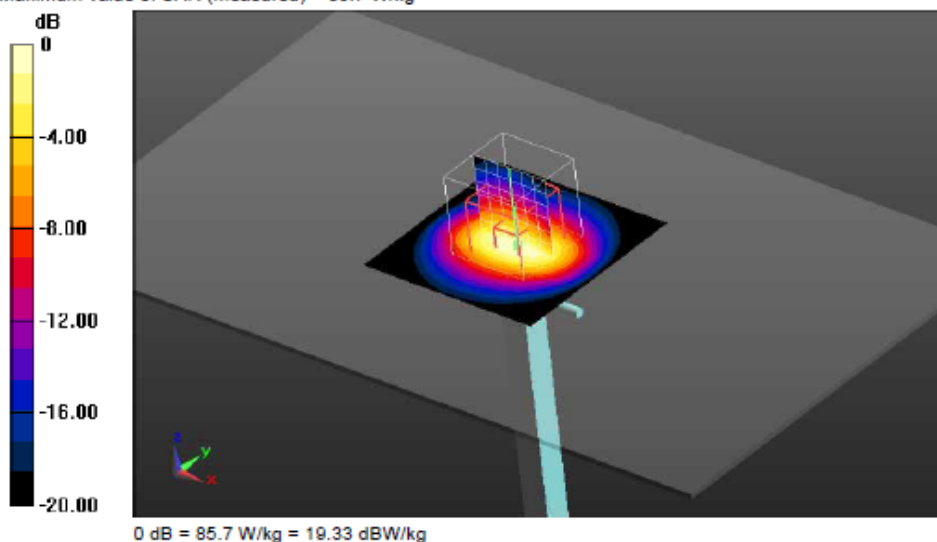
DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1040  
Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.208$  S/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Center Section  
Measurement Standard: DASY5  
DASY5 Configuration:  
- Probe: EX3DV4 - SN3944; ConvF(7.37, 7.37, 7.37); Calibrated: 14.08.2015;  
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
- Electronics: DAE3 Sn413; Calibrated: 15.01.2015  
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1154  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

### MSL2600/d=10mm, Pin=1000 mW, dist=2.0mm/Area Scan (71x71x1): Interpolated

grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 86.5 W/kg

### MSL2600/d=10mm, Pin=1000 mW, dist=2.0mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 197.6 V/m; Power Drift = 0.07 dB  
Peak SAR (extrapolated) = 116 W/kg  
SAR(1 g) = 54.8 W/kg; SAR(10 g) = 24.3 W/kg  
Maximum value of SAR (measured) = 85.7 W/kg



0 dB = 85.7 W/kg = 19.33 dBW/kg

#### Additional information:

ambient temperature: 23.8 °C; liquid temperature: 22.6 °C

|                                                                                   |                                               |                                                                                                   |                               |  |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |  |                       |

Test report no.: 1-0042/15-01-15-A

**CETECOM**<sup>TM</sup>

Date/Time: 04.09.2015 11:42:47

### SystemPerformanceCheck-D2600 MSL 2015-09-04

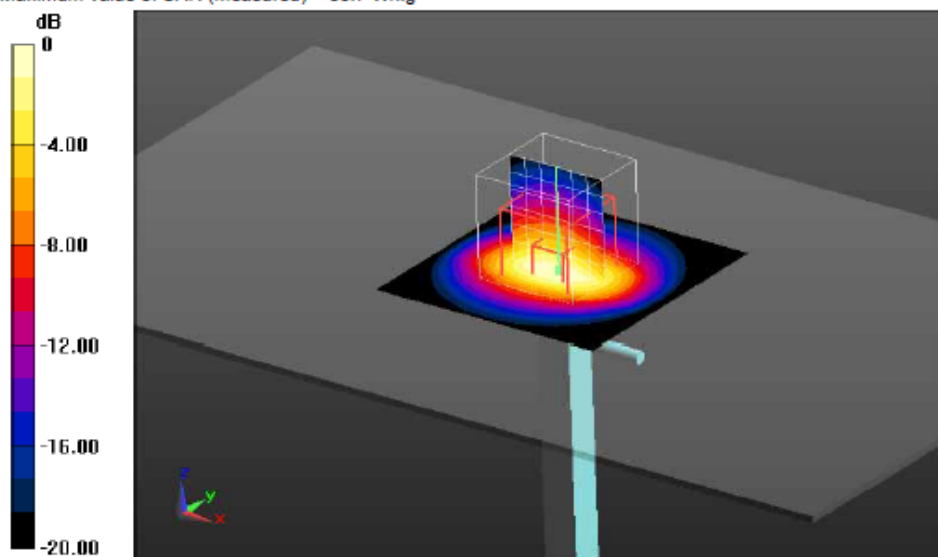
DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1040  
Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.208$  S/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Center Section  
Measurement Standard: DASYS  
DASY5 Configuration:  
- Probe: EX3DV4 - SN3944; ConvF(7.37, 7.37, 7.37); Calibrated: 14.08.2015;  
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
- Electronics: DAE3 Sn413; Calibrated: 15.01.2015  
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1154  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

### MSL2600/d=10mm, Pin=1000 mW, dist=2.0mm/Area Scan (71x71x1): Interpolated

grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 88.3 W/kg

### MSL2600/d=10mm, Pin=1000 mW, dist=2.0mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 200.0 V/m; Power Drift = 0.15 dB  
Peak SAR (extrapolated) = 120 W/kg  
SAR(1 g) = 56.8 W/kg; SAR(10 g) = 25.3 W/kg  
Maximum value of SAR (measured) = 88.7 W/kg



0 dB = 88.7 W/kg = 19.48 dBW/kg

#### Additional information:

ambient temperature: 23.0°C; liquid temperature: 22.6°C

|                                                                                   |                                               |                                                                                                   |                               |  |                       |
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| Author Data<br><b>Andrew Becker</b>                                               | Dates of Test<br><b>Oct 06 – Nov 02, 2015</b> | Test Report No<br><b>RTS-6066-1511-01</b>                                                         | FCC ID:<br><b>L6ARHT180LW</b> |  |                       |

Test report no.: 1-0042/15-01-15-A



Date/Time: 05.09.2015 19:02:52

### SystemPerformanceCheck-D2600 MSL 2015-09-05

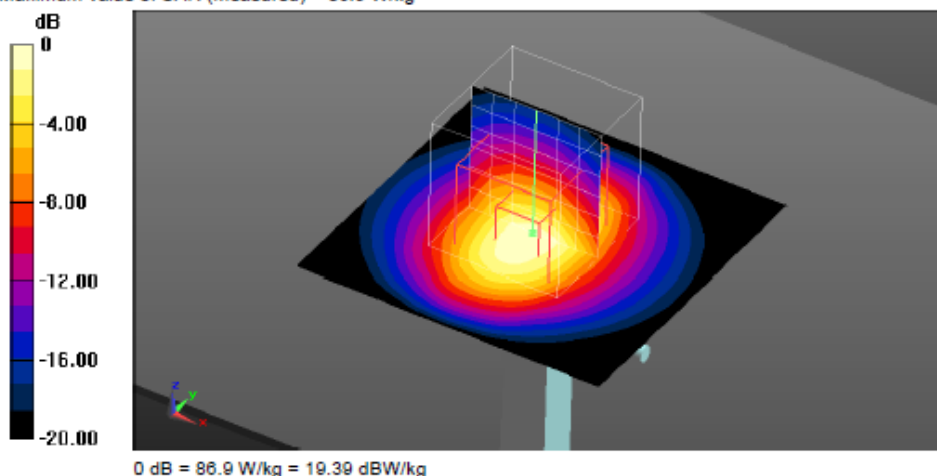
DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1040  
Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1  
Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.208$  S/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Center Section  
Measurement Standard: DASY5  
DASY5 Configuration:  
- Probe: EX3DV4 - SN3944; ConvF(7.37, 7.37, 7.37); Calibrated: 14.08.2015;  
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$   
- Electronics: DAE3 Sn413; Calibrated: 15.01.2015  
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1154  
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

### MSL2600/d=10mm, Pin=1000 mW, dist=2.0mm/Area Scan (71x71x1): Interpolated

grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 87.3 W/kg

### MSL2600/d=10mm, Pin=1000 mW, dist=2.0mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 196.9 V/m; Power Drift = 0.18 dB  
Peak SAR (extrapolated) = 117 W/kg  
SAR(1 g) = 56.7 W/kg; SAR(10 g) = 25.7 W/kg  
Maximum value of SAR (measured) = 86.9 W/kg



Additional information:  
ambient temperature: 23.0°C; liquid temperature: 22.6°C