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Andrew Becker	Oct 06 – Nov 02, 2015	RTS-6066-1511-01	L6ARHT180LW	

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
- DASYS2 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 V/m; Power Drift = -0.16 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 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: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

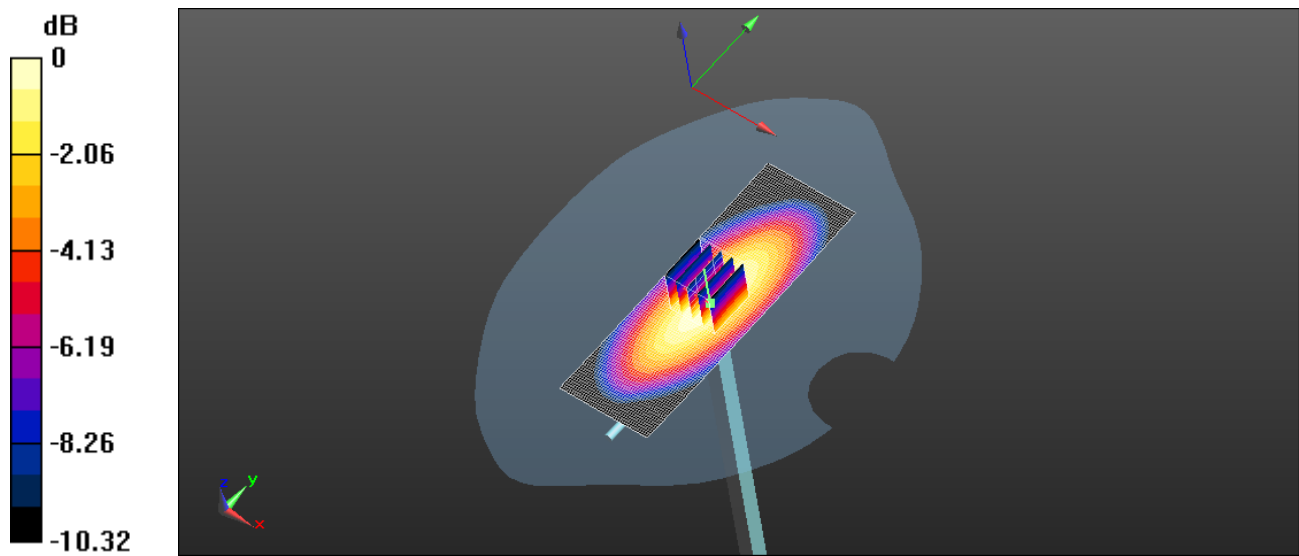
Reference Value = 103.2 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 11.7 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 W/kg

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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: DASYS5 (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
- DASYS2 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

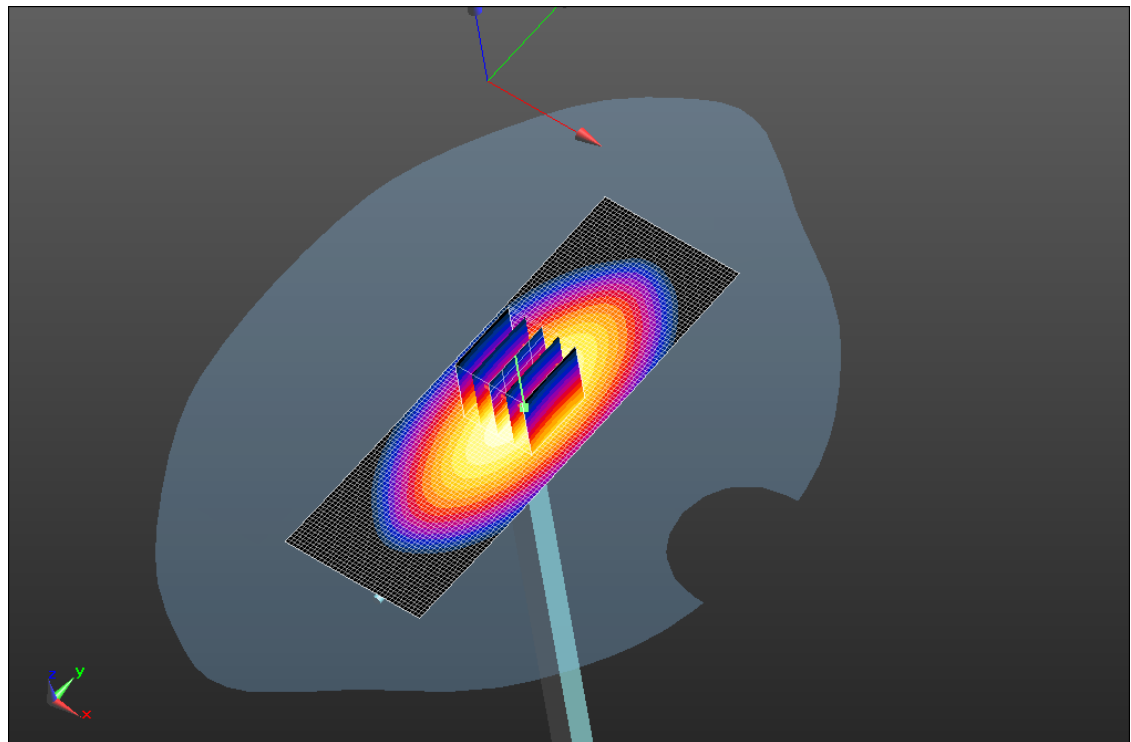
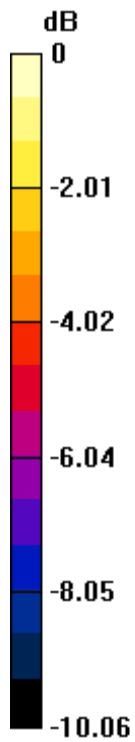
**System Performance Check at Frequencies below 1 GHz/d=15mm,
Pin=1000mW, dist=4.0mm (ET-Probe)/Zoom Scan (5x5x7) (5x5x7)/Cube
0:** Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 109.6 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 12.9 W/kg
SAR(1 g) = 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

Author Data
Andrew Becker


Dates of Test
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0 dB = 9.99 W/kg = 10.00 dBW/kg

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Andrew Becker	Oct 06 – Nov 02, 2015	RTS-6066-1511-01	L6ARHT180LW	

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: $f = 835$ MHz; $\sigma = 0.897$ S/m; $\epsilon_r = 40.453$; $\rho = 1000$ kg/m³

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
- DASYS2 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: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 112.5 V/m; Power Drift = -0.01 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 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: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 112.5 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 13.4 W/kg

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

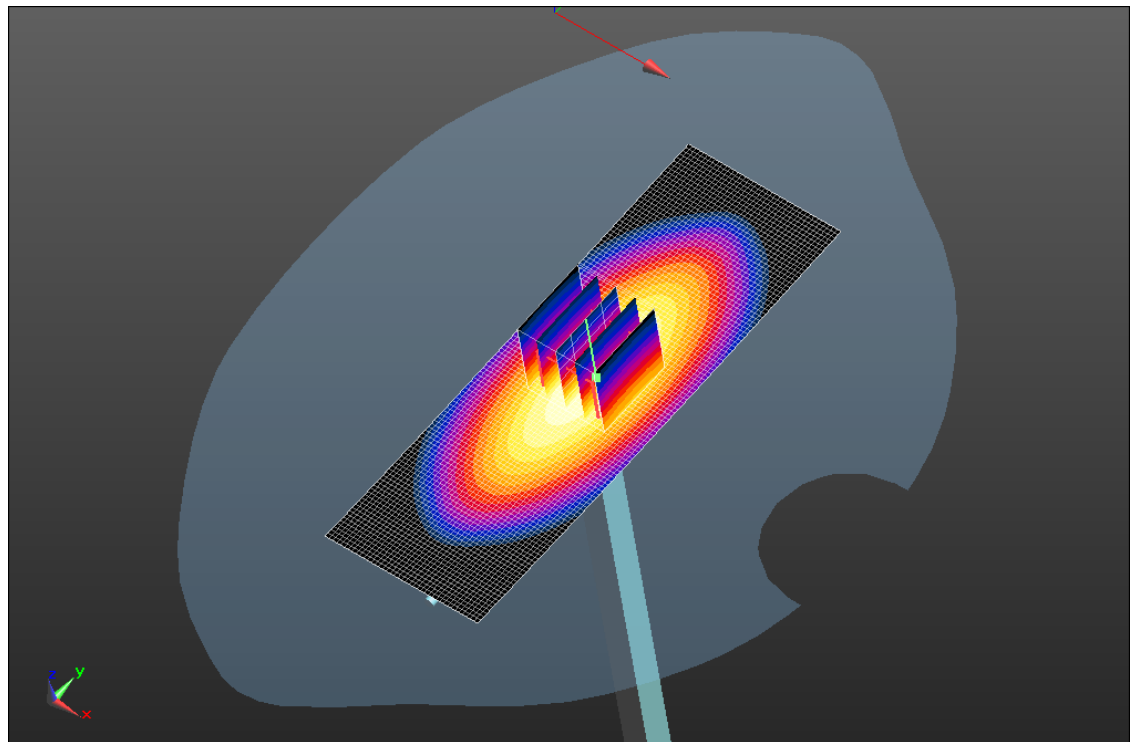
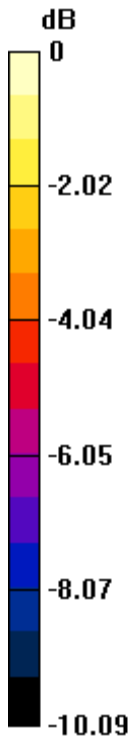
Maximum value of SAR (measured) = 10.4 W/kg

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FCC ID:
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0 dB = 10.4 W/kg = 10.17 dBW/kg

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Andrew Becker	Oct 06 – Nov 02, 2015	RTS-6066-1511-01	L6ARHT180LW	

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: $f = 835$ MHz; $\sigma = 0.881$ S/m; $\epsilon_r = 41.003$; $\rho = 1000$ kg/m³

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
- DASYS2 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: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 111.5 V/m; Power Drift = -0.05 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 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: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 111.5 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 13.0 W/kg

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

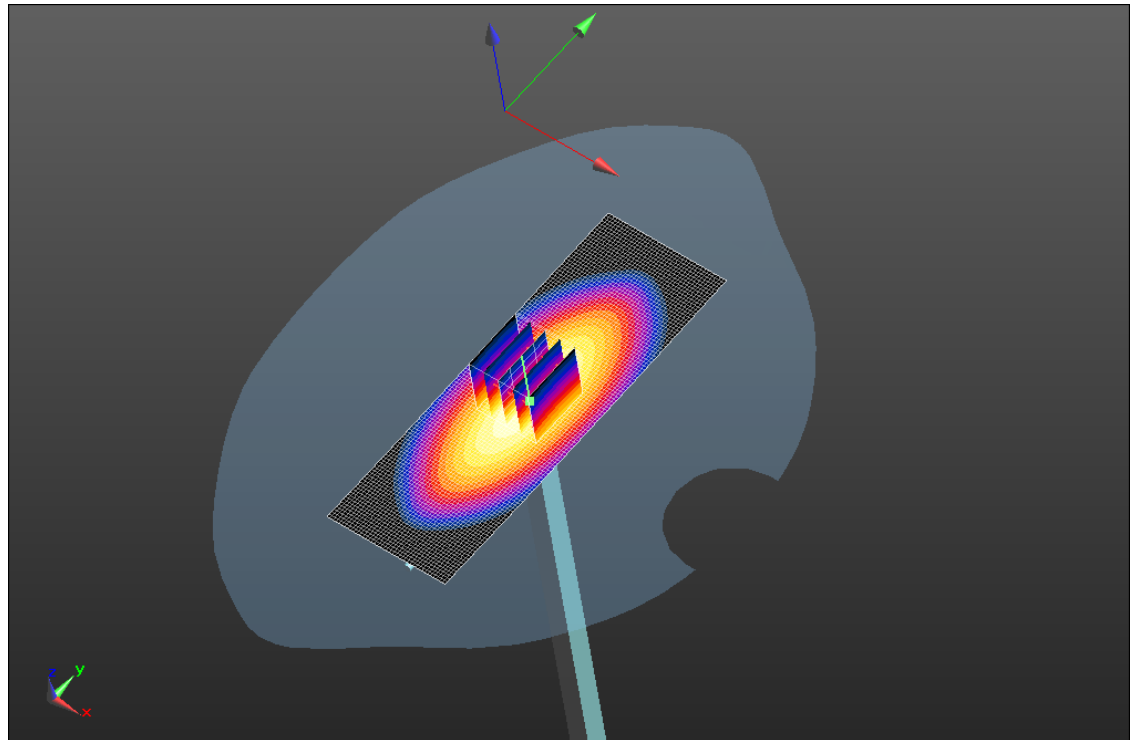
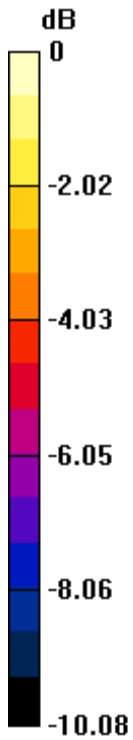
Maximum value of SAR (measured) = 10.0 W/kg

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FCC ID:
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0 dB = 10.0 W/kg = 10.00 dBW/kg

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Andrew Becker	Oct 06 – Nov 02, 2015	RTS-6066-1511-01	L6ARHT180LW	

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: $f = 835$ MHz; $\sigma = 0.896$ S/m; $\epsilon_r = 41.175$; $\rho = 1000$ kg/m³

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
- DASYS2 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: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 111.8 V/m; Power Drift = -0.05 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 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: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 111.8 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 13.3 W/kg

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

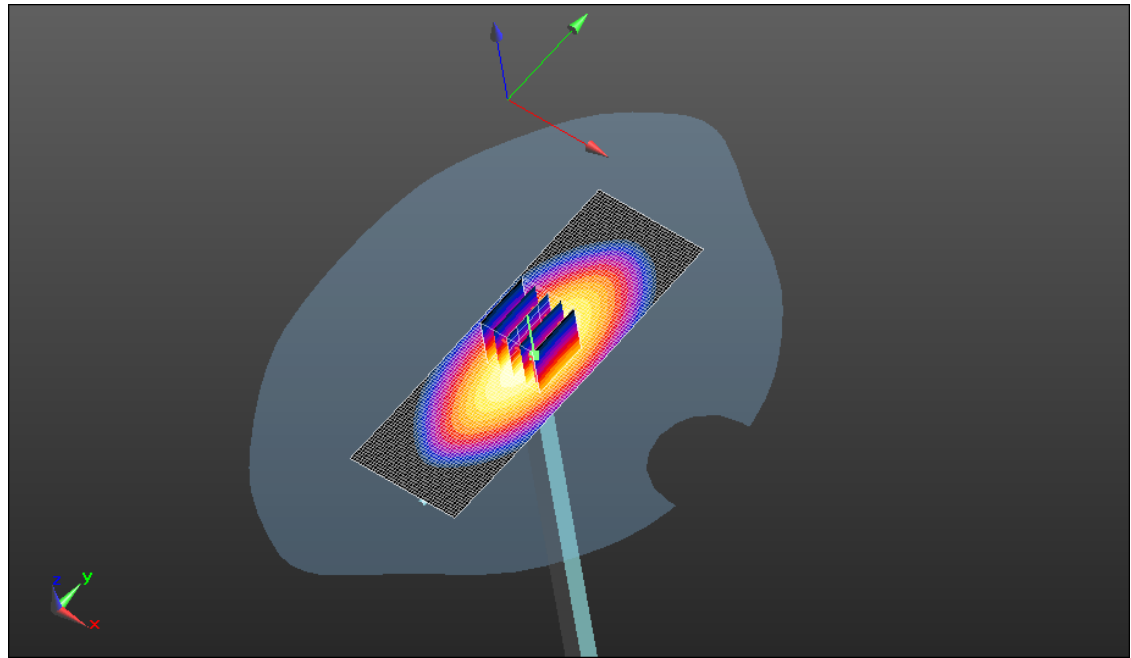
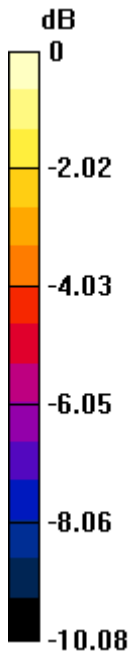
Maximum value of SAR (measured) = 10.3 W/kg

Author Data
Andrew Becker


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FCC ID:
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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: $f = 1900$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.514$; $\rho = 1000$ kg/m³

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

Reference Value = 182.0 V/m; Power Drift = -0.01 dB

Fast SAR: SAR(1 g) = 37.5 W/kg; SAR(10 g) = 19.7 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 43.0 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: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 182.0 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 61.6 W/kg

SAR(1 g) = 36.8 W/kg; SAR(10 g) = 19.8 W/kg (SAR corrected for target medium)

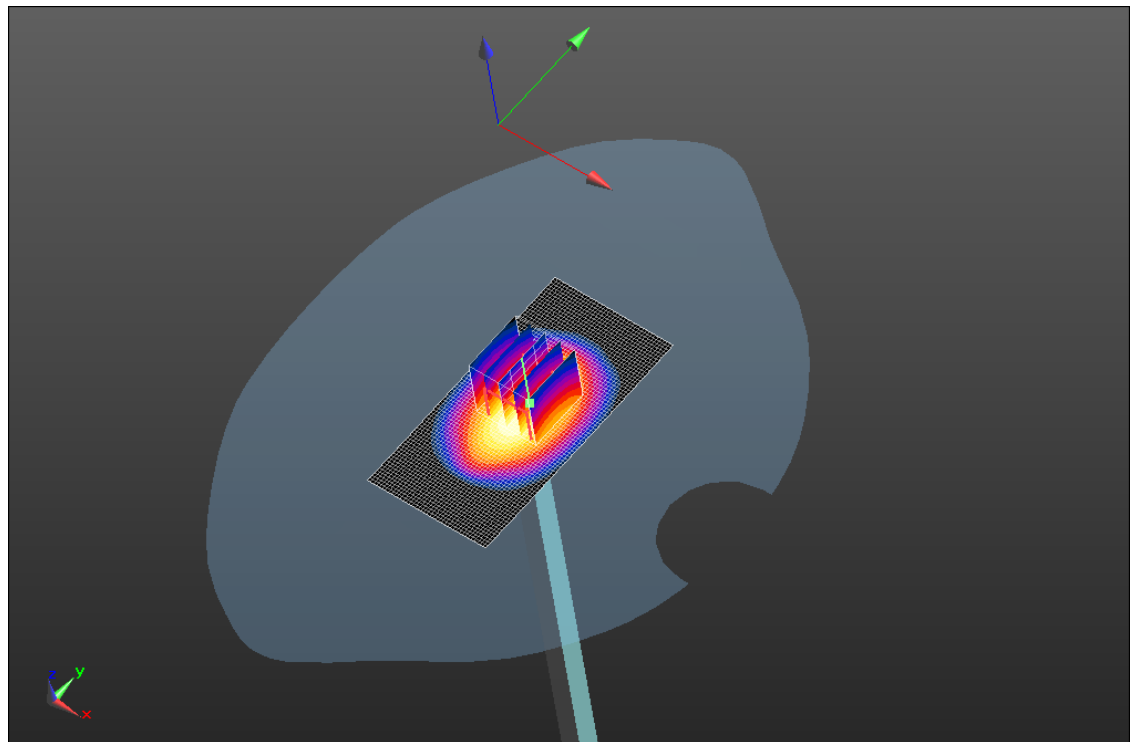
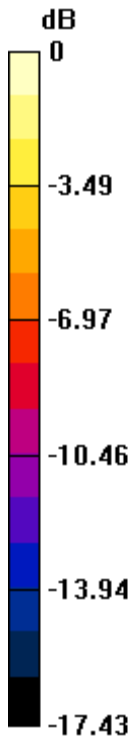
Maximum value of SAR (measured) = 41.0 W/kg

Author Data
Andrew Becker


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FCC ID:
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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/m³
 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

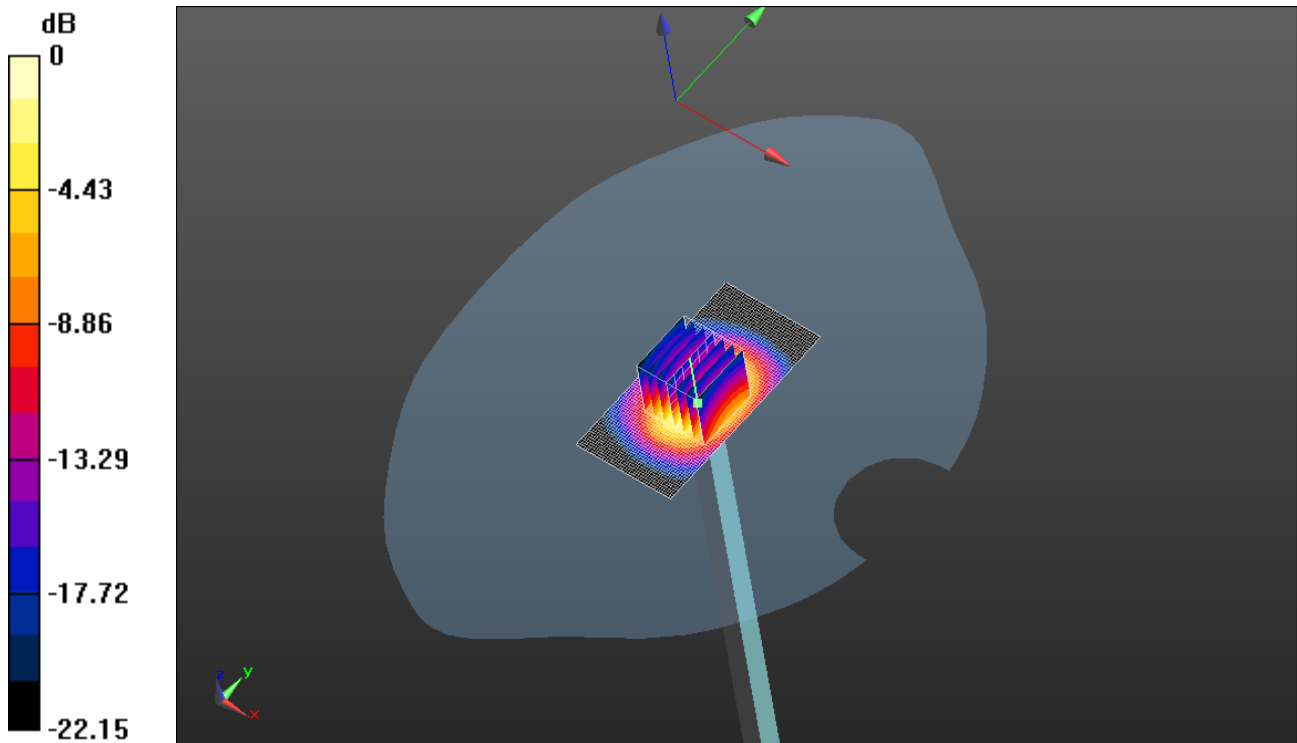
System Performance Check at Frequencies between 2 GHz - 3 GHz/d=10mm, Pin=1000mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7)

(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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Andrew Becker	Oct 06 – Nov 02, 2015	RTS-6066-1511-01	L6ARHT180LW	

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/m³

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

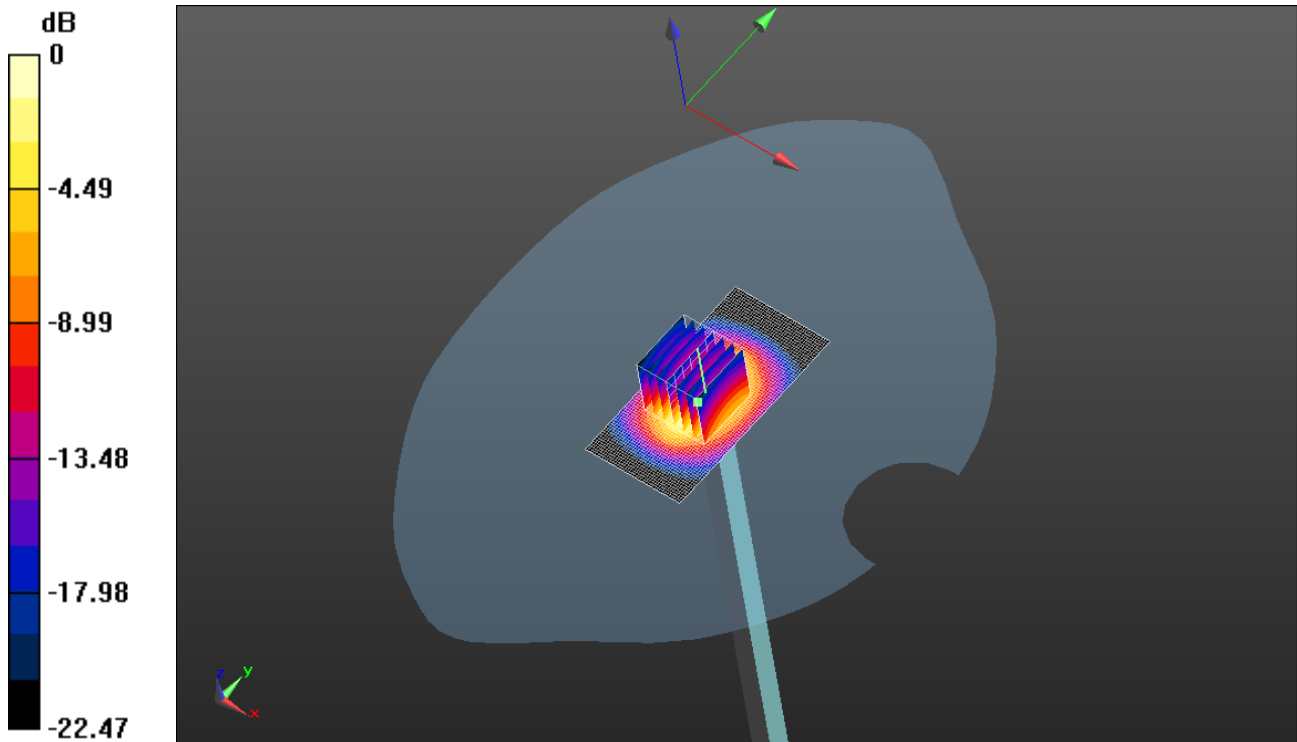
Peak SAR (extrapolated) = 110 W/kg

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


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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 Andrew Becker	Dates of Test Oct 06 – Nov 02, 2015	Test Report No RTS-6066-1511-01	FCC ID: L6ARHT180LW

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/m³

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
- DASYS2 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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Andrew Becker	Oct 06 – Nov 02, 2015	RTS-6066-1511-01	L6ARHT180LW	

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/m³

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
- DASYS2 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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Andrew Becker	Oct 06 – Nov 02, 2015	RTS-6066-1511-01	L6ARHT180LW	

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: $f = 5800$ MHz; $\sigma = 5.464$ S/m; $\epsilon_r = 33.717$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (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
- DASYS2 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: $dx=1.000$ mm, $dy=1.000$ mm

Reference Value = 194.6 V/m; Power Drift = 0.03 dB

Fast SAR: SAR(1 g) = 82.7 W/kg; SAR(10 g) = 23 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 185 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: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 194.6 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 371 W/kg

SAR(1 g) = 85.8 W/kg; SAR(10 g) = 24.6 W/kg (SAR corrected for target medium)

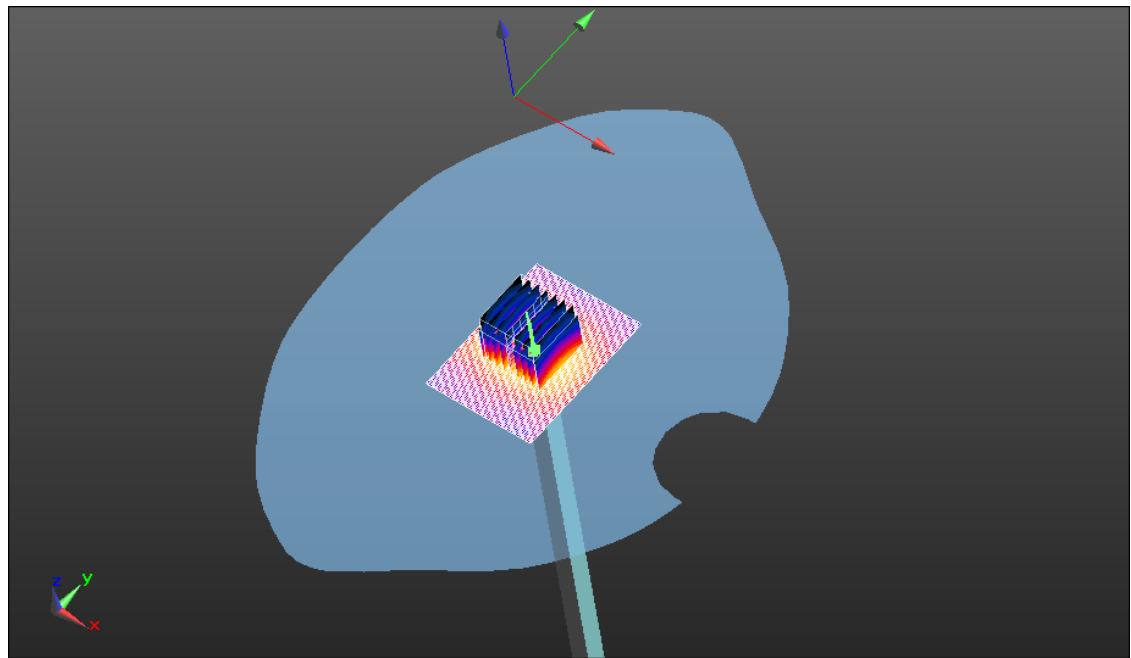
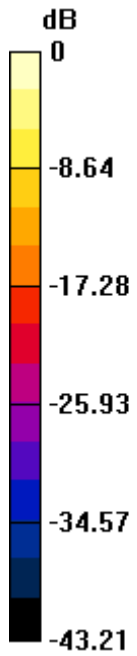
Maximum value of SAR (measured) = 182 W/kg

Author Data
Andrew Becker


Dates of Test
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0 dB = 182 W/kg = 22.60 dBW/kg

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Andrew Becker	Oct 06 – Nov 02, 2015	RTS-6066-1511-01	L6ARHT180LW	

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/m³

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
- DASYS2 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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Andrew Becker	Oct 06 – Nov 02, 2015	RTS-6066-1511-01	L6ARHT180LW	

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/m³

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 = 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=4mm, dy=4mm, dz=2mm

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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Andrew Becker	Oct 06 – Nov 02, 2015	RTS-6066-1511-01	L6ARHT180LW	

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: $f = 5800$ MHz; $\sigma = 5.442$ S/m; $\epsilon_r = 33.66$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (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
- DASYS2 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: $dx=1.000$ mm, $dy=1.000$ 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: $dx=4$ mm, $dy=4$ mm, $dz=2$ 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)

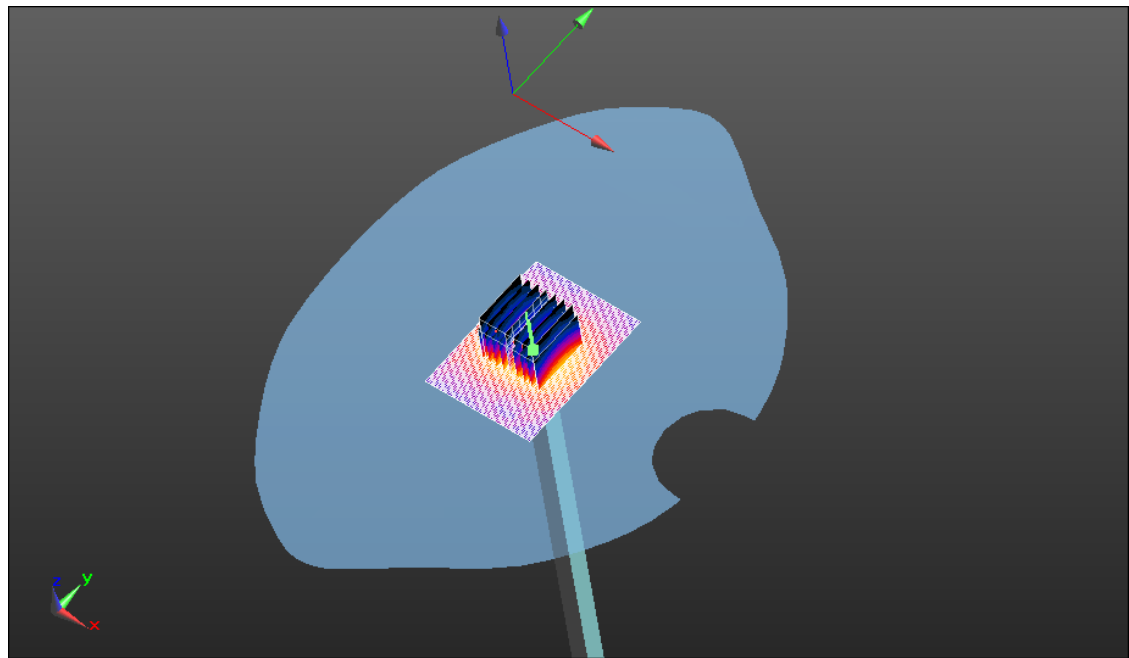
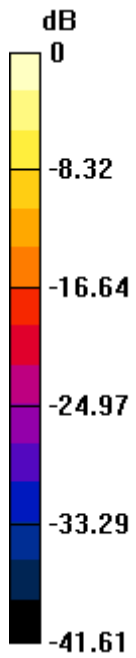
Maximum value of SAR (measured) = 179 W/kg

Author Data
Andrew Becker


Dates of Test
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0 dB = 179 W/kg = 22.53 dBW/kg

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Andrew Becker	Oct 06 – Nov 02, 2015	RTS-6066-1511-01	L6ARHT180LW	

Dipole Validation for model RHM181LW

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1750 MHz

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


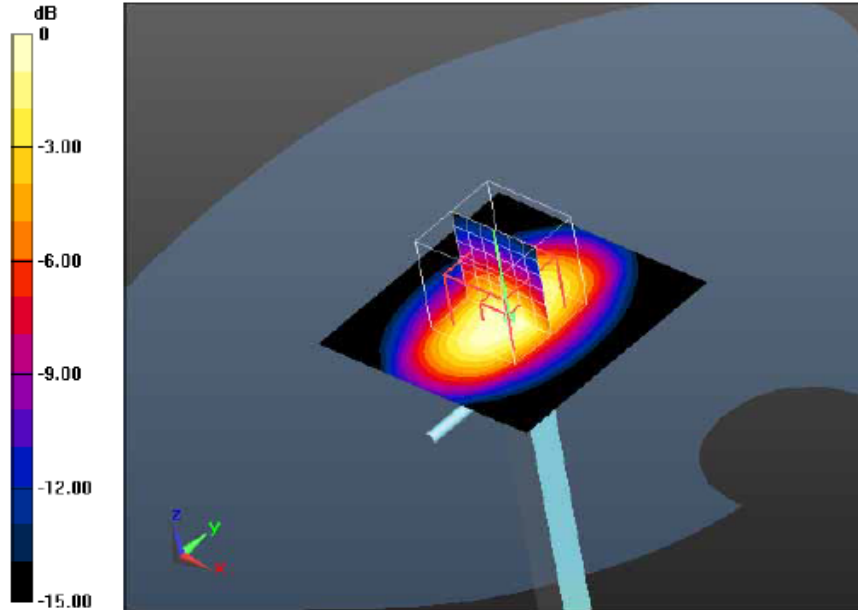
Date/Time: 7/31/2015 11:26:22 AM

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/m³
 Phantom section: Flat Section
 Measurement Standard: DASYS
 DASYS 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
 - DASYS2 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=5mm, dy=5mm, dz=5mm
 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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Test report no.: 1-0042/15-01-15-A

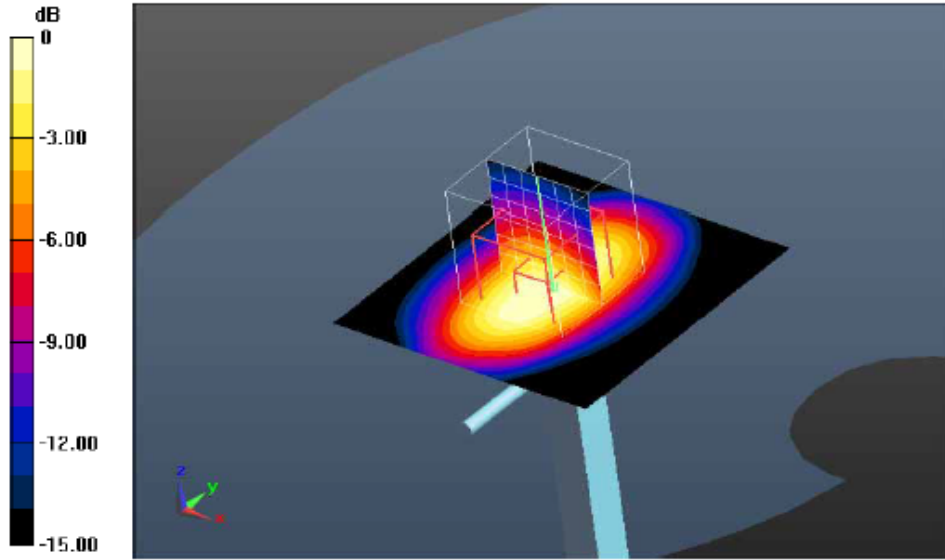

Date/Time: 04.08.2015 11:37:46

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/m³
 Phantom section: Flat Section
 Measurement Standard: DASYS
 DASYS 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
 - DASYS2 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=5mm, dy=5mm, dz=5mm
 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

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

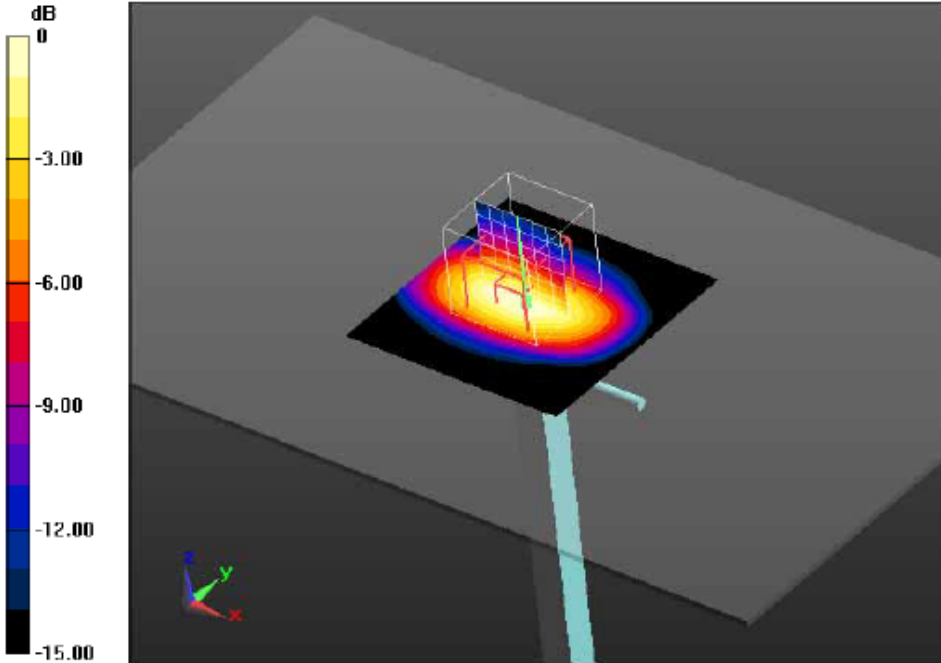

Date/Time: 7/29/2015 2:49:20 PM

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/m³
 Phantom section: Center Section
 Measurement Standard: DASY5
 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=5mm, dy=5mm, dz=5mm
 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

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

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

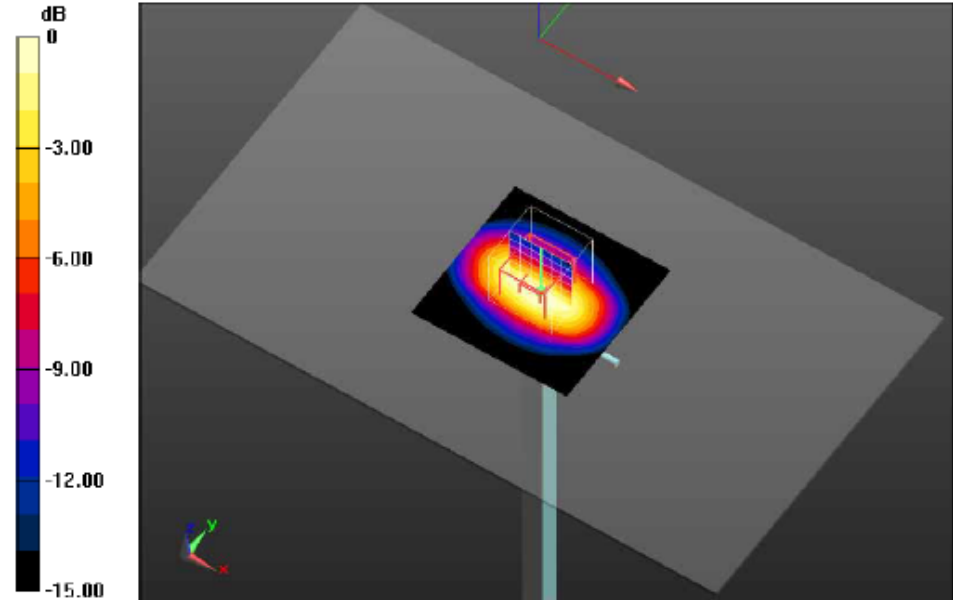

Date/Time: 17.08.2015 07:50:32

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/m³
 Phantom section: Center Section
 Measurement Standard: DASYS
 DASYS 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
 - DASYS2 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 Andrew Becker	Dates of Test Oct 06 – Nov 02, 2015	Test Report No RTS-6066-1511-01	FCC ID: L6ARHT180LW

Test report no.: 1-0042/15-01-15-A	
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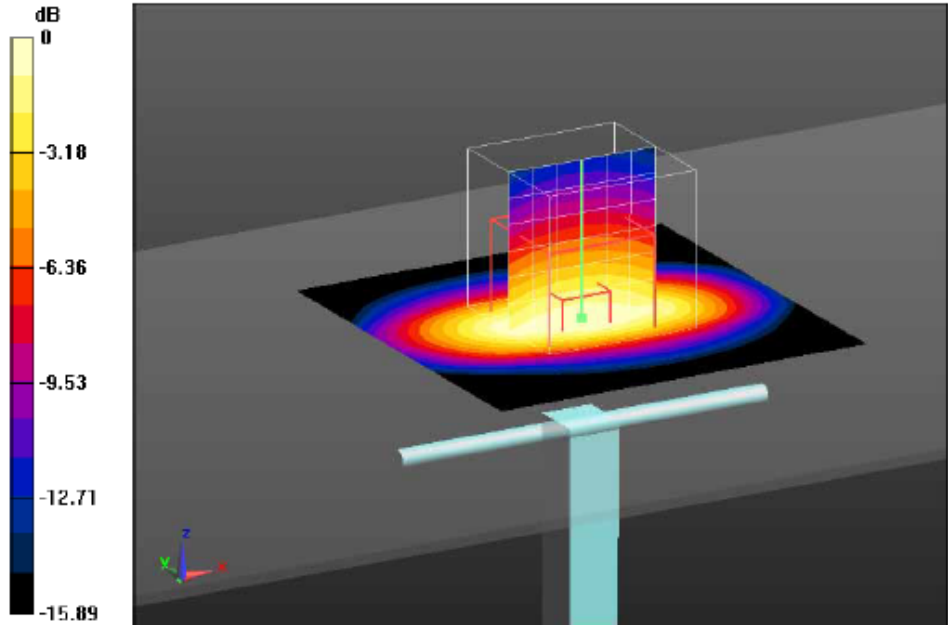
Date/Time: 18.08.2015 10:03:41

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/m³
 Phantom section: Center Section
 Measurement Standard: DASY5
 DASY5 Configuration:
 - Probe: ET3DV6 - SN1554; ConvF(4.81, 4.81, 4.81); Calibrated: 18.05.2015;
 - 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 Andrew Becker	Dates of Test Oct 06 – Nov 02, 2015	Test Report No RTS-6066-1511-01	FCC ID: L6ARHT180LW

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

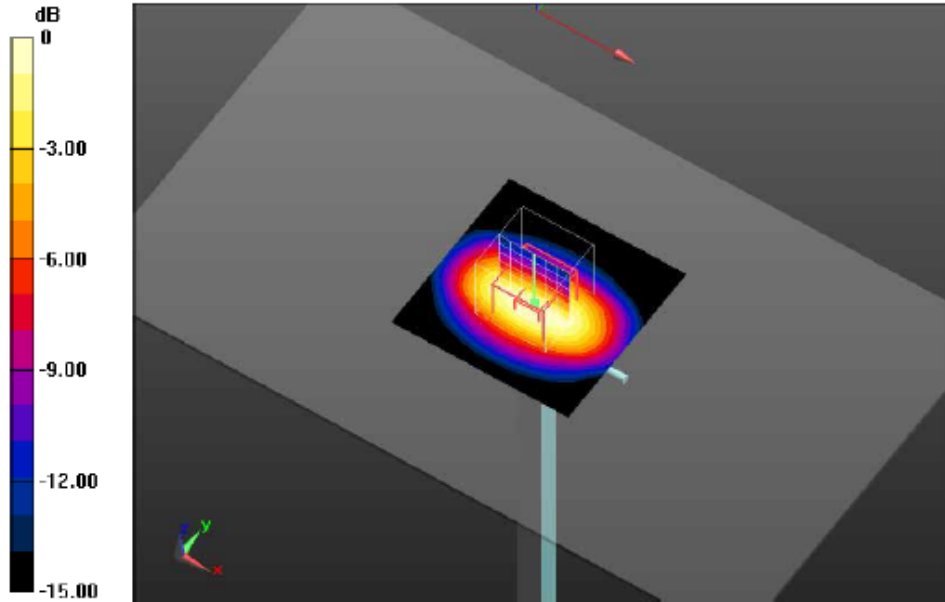

Date/Time: 19.08.2015 15:32:52

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/m³
 Phantom section: Center Section
 Measurement Standard: DASYS
 DASYS 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
 - DASYS2 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=5mm, dy=5mm, dz=5mm
 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



0 dB = 3.93 W/kg = 5.94 dBW/kg

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

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1900 MHz

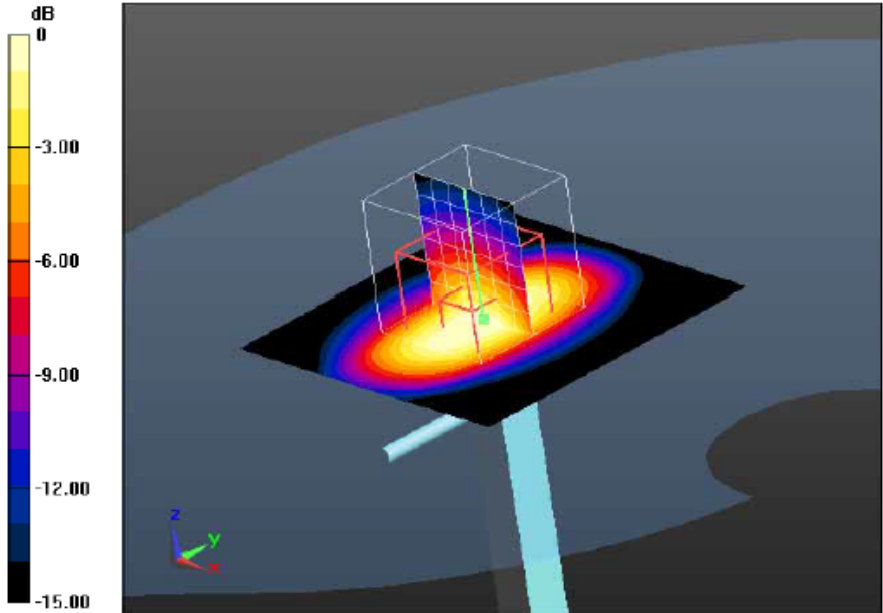
Test report no.: 1-0042/15-01-15-A	
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Date/Time: 29.07.2015 13:25:19

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; $\sigma = 1.381 \text{ S/m}$; $\epsilon_r = 39.929$; $\rho = 1000 \text{ kg/m}^3$
 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=5mm, dy=5mm, dz=5mm
 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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Test report no.: 1-0042/15-01-15-A

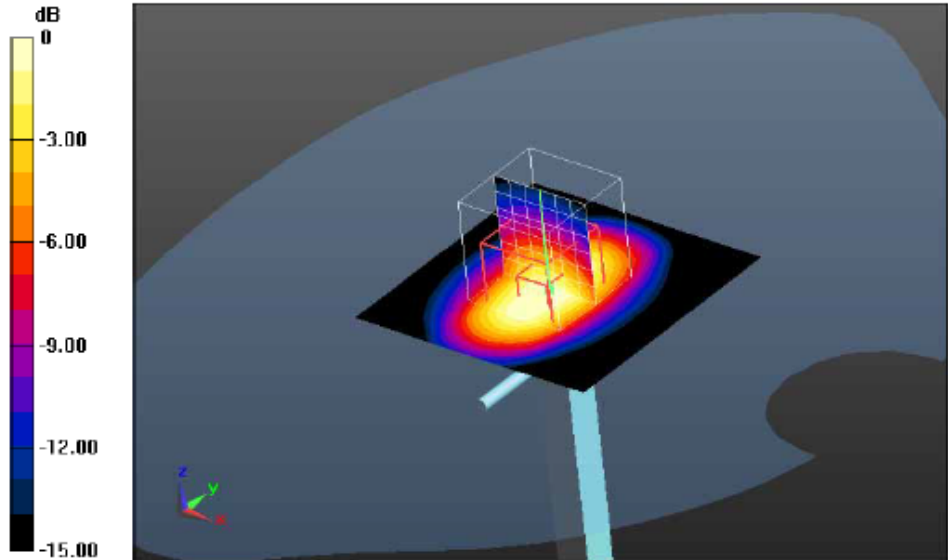

Date/Time: 30.07.2015 08:54:08

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/m³
 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=5mm, dy=5mm, dz=5mm
 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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Test report no.: 1-0042/15-01-15-A

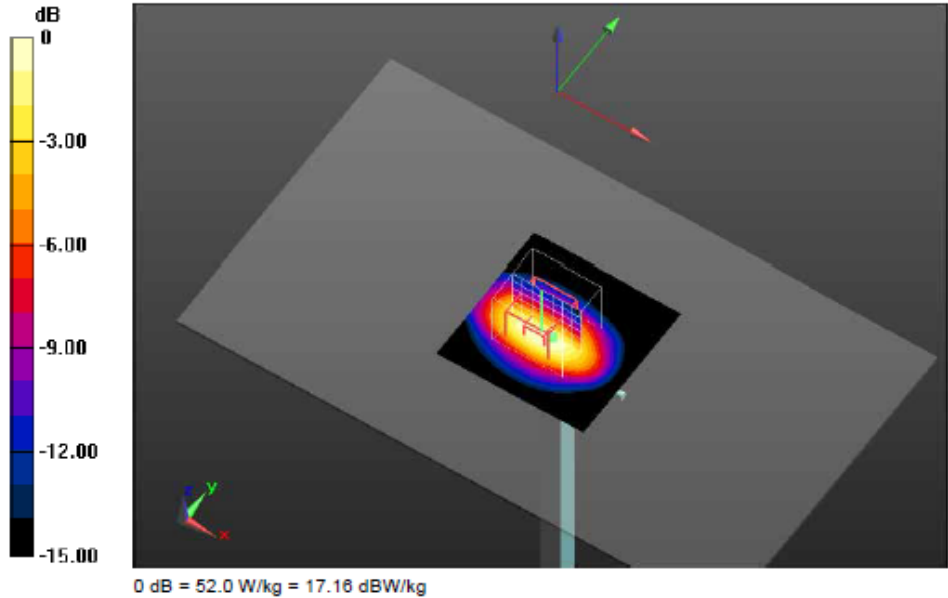
Date/Time: 14.08.2015 13:44:27

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/m³
 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)

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=5mm, dy=5mm, dz=5mm
 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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Test report no.: 1-0042/15-01-15-A

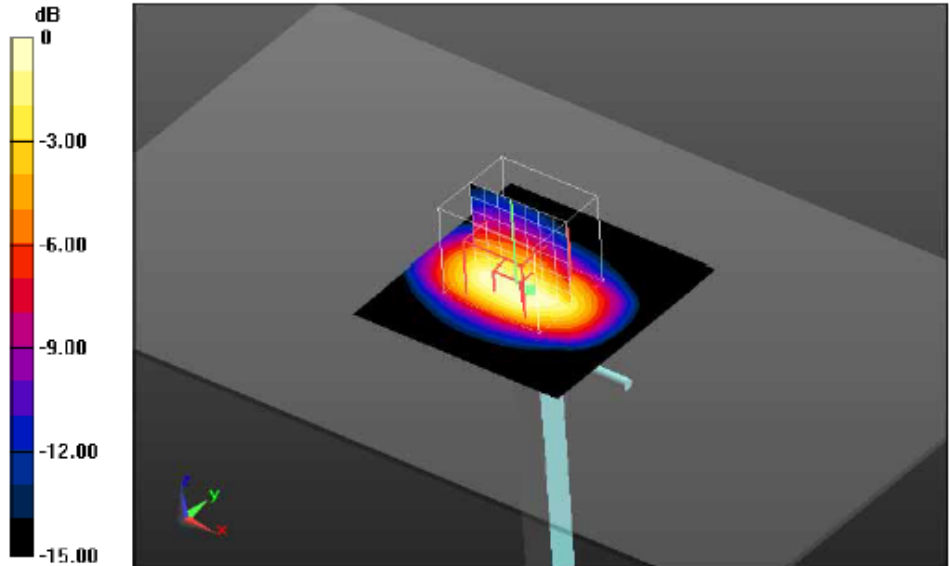
Date/Time: 17.08.2015 12:32:39

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/m³
 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=5mm, dy=5mm, dz=5mm
 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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Test report no.: 1-0042/15-01-15-A

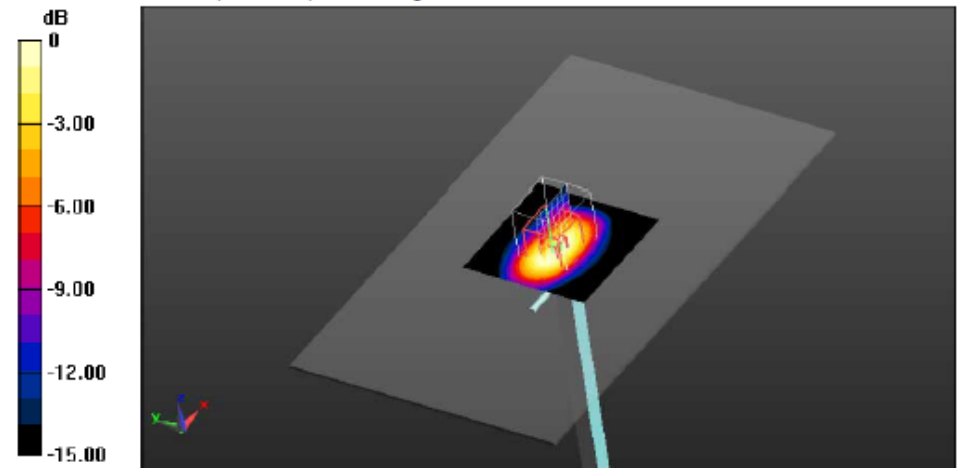

Date/Time: 18.08.2015 11:17:16

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; $\sigma = 1.522 \text{ S/m}$; $\epsilon_r = 53.659$; $\rho = 1000 \text{ kg/m}^3$
 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=5mm, dy=5mm, dz=5mm
 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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Test report no.: 1-0042/15-01-15-A

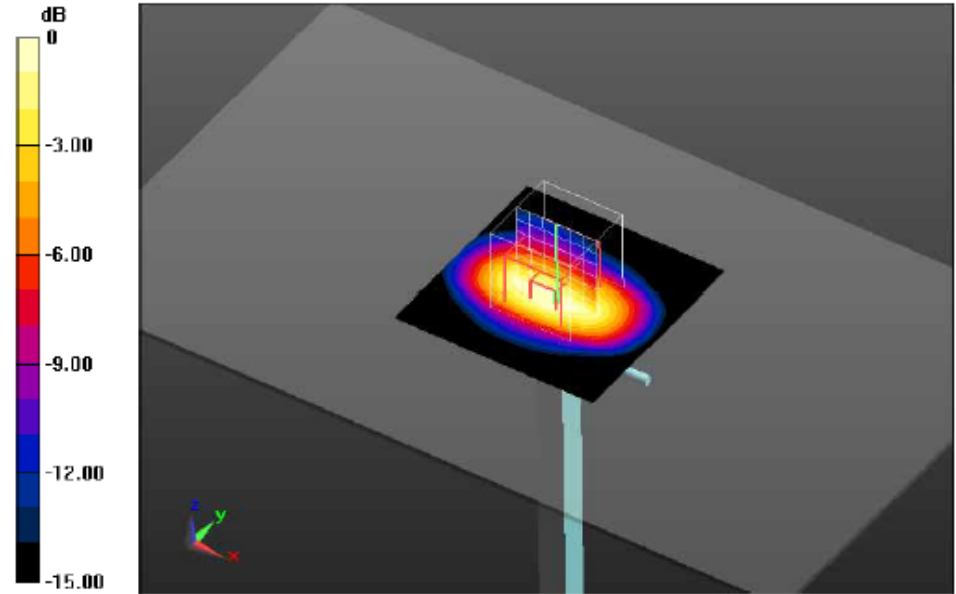

Date/Time: 19.08.2015 10:31:31

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/m³
 Phantom section: Center Section
 Measurement Standard: DASYS
 DASYS 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
 - DASYS2 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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Test report no.: 1-0042/15-01-15-A

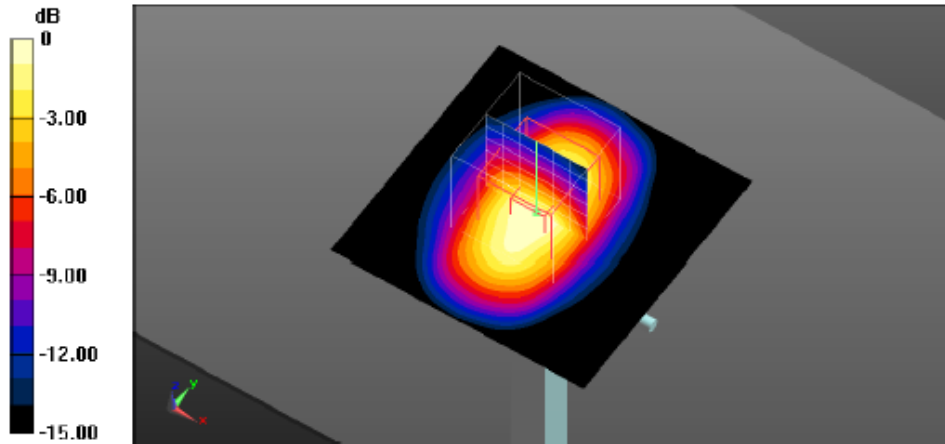
Date/Time: 29.08.2015 12:29:53

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/m³
 Phantom section: Center Section
 Measurement Standard: DASYS
 DASYS 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
 - DASYS2 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=5mm, dy=5mm, dz=5mm
 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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2600 MHz

Test report no.: 1-0042/15-01-15-A	
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Date/Time: 04.08.2015 11:52:36

SystemPerformanceCheck-D2600 head 2015-08-04

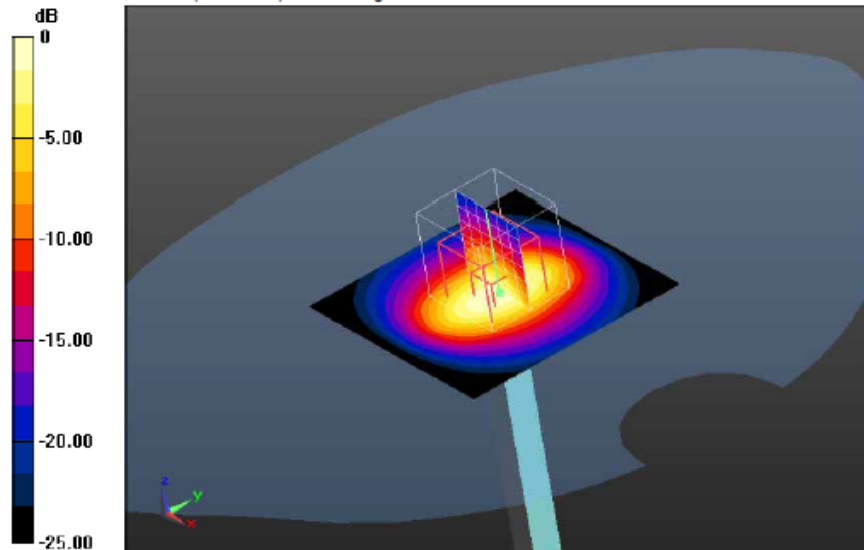
DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1040
 Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1
 Medium parameters used: f = 2600 MHz; $\sigma = 1.899$ S/m; $\epsilon_r = 37.827$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASYS5
 DASYS5 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
 - DASYS5 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=5mm, dy=5mm, dz=5mm
 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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Test report no.: 1-0042/15-01-15-A

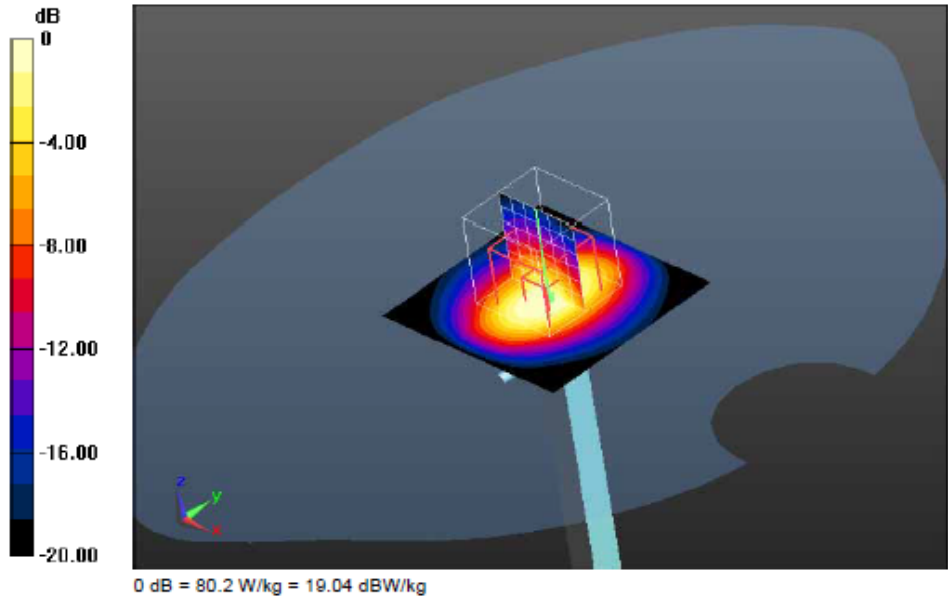

Date/Time: 01.09.2015 09:18:49

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; $\sigma = 1.959 \text{ S/m}$; $\epsilon_r = 38.434$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASYS
 DASYS 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
 - DASYS2 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=5mm, dy=5mm, dz=5mm
 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



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

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

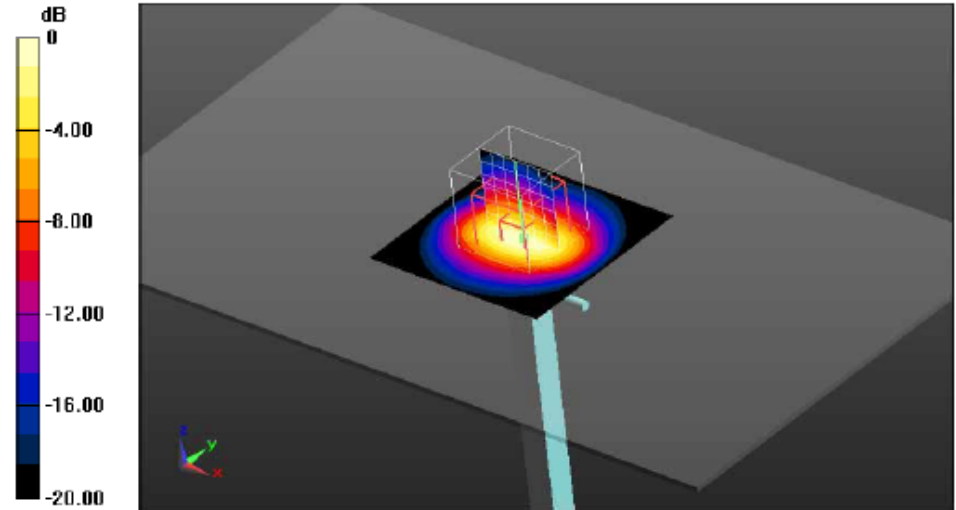
Date/Time: 03.09.2015 14:03:04

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/m³
 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=5mm, dy=5mm, dz=5mm
 Reference Value = 197.6 V/m; Power Drift = 0.07 dB
 Peak SAR (extrapolated) = 118 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 Andrew Becker	Dates of Test Oct 06 – Nov 02, 2015	Test Report No RTS-6066-1511-01	FCC ID: L6ARHT180LW

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

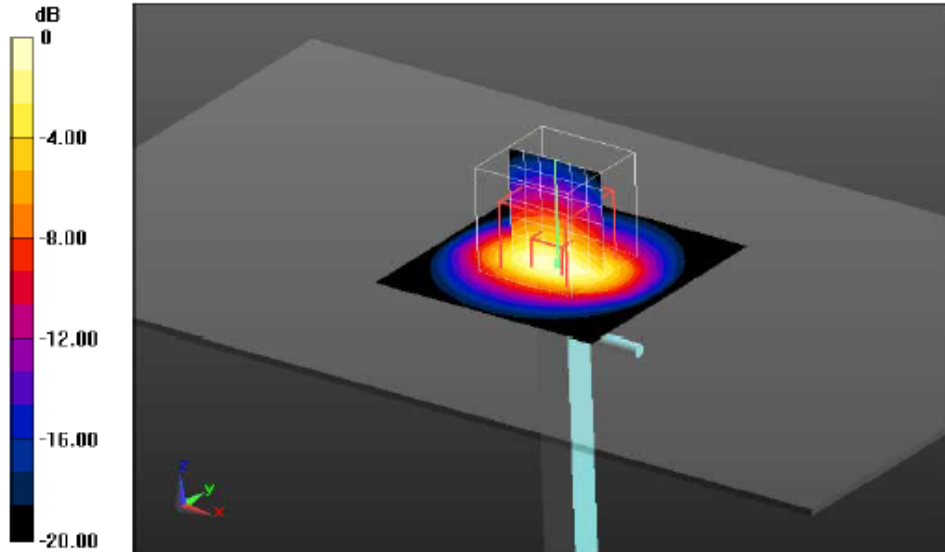

Date/Time: 04.09.2015 11:42:47

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/m³
 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) = 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 Andrew Becker	Dates of Test Oct 06 – Nov 02, 2015	Test Report No RTS-6066-1511-01	FCC ID: L6ARHT180LW

Test report no.: 1-0042/15-01-15-A	
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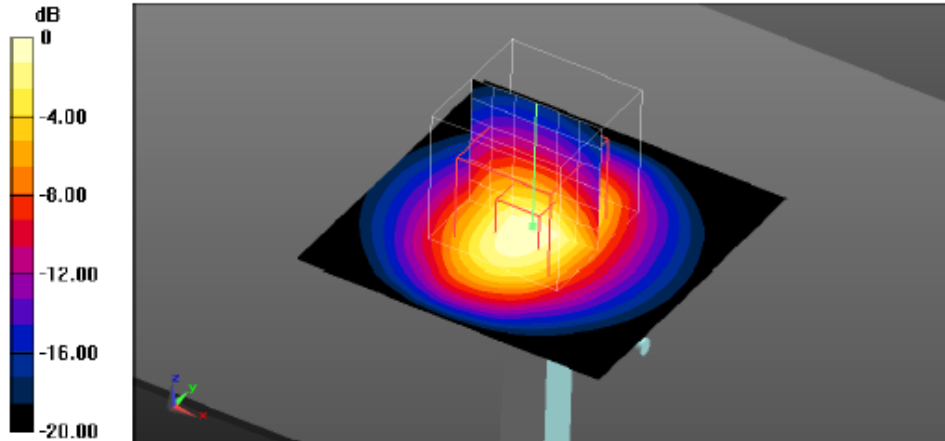
Date/Time: 05.09.2015 19:02:52

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/m³
 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=5mm, dy=5mm, dz=5mm
 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



0 dB = 86.9 W/kg = 19.39 dBW/kg

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