
	Document Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			Page 1(31)
	Author Data Andrew Becker	Dates of Test Sept 18 – Nov 7, 2012	Test Report No RTS-6012-1211-22	FCC ID: L6ARFH120LW

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			2(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 9/21/2012 11:26:56 AM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_09_21_12_Amb_Tem_24.7_Liq_Tem_22.6C

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

Communication System: CW; Frequency: 835 MHz

Medium parameters used: $f = 835$ MHz; $\sigma = 0.912$ mho/m; $\epsilon_r = 40.143$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement

grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 11.071 mW/g

Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 2

(5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 114.5 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 14.1700

SAR(1 g) = 9.66 mW/g; SAR(10 g) = 6.35 mW/g

Maximum value of SAR (measured) = 11.315 mW/g

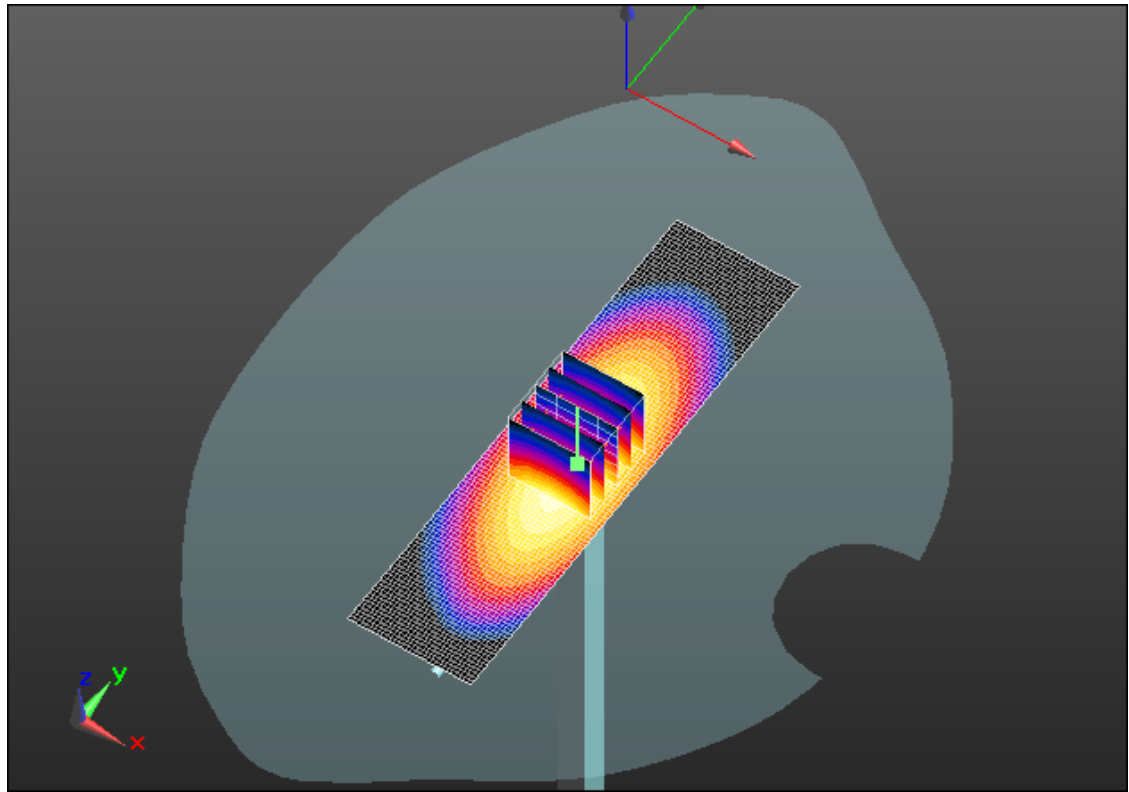
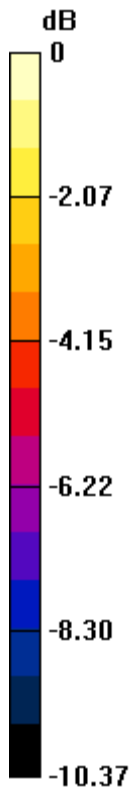
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 11.320mW/g = 21.08 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			4(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 9/24/2012 10:33:57 AM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_09_24_12_Amb_Tem_24.2_Liq_Tem_22.0C

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

Communication System: CW; Frequency: 835 MHz

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.892 \text{ mho/m}$; $\epsilon_r = 42.065$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement

grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 10.924 mW/g

Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 2

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

Reference Value = 116.4 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 14.0270

SAR(1 g) = 9.54 mW/g; SAR(10 g) = 6.26 mW/g

Maximum value of SAR (measured) = 11.195 mW/g

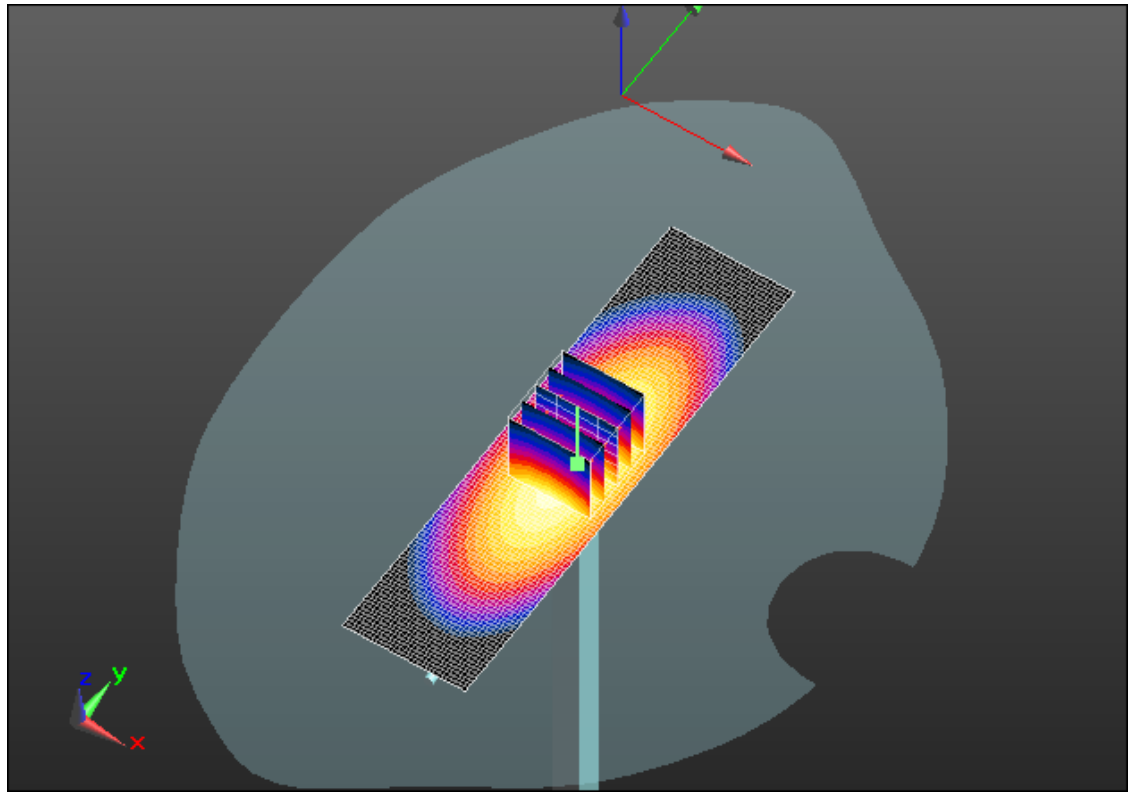
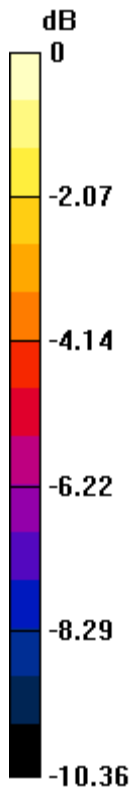
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 11.190mW/g = 20.98 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			6(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 10/30/2012 12:00:24 PM

Test Laboratory: RIM Testing Services

DipoleValidation_835MHz_10_30_12_Amb_Tem_24.2_Liq_Tem_21.9C

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

Communication System: CW; Frequency: 835 MHz

Medium parameters used: $f = 835$ MHz; $\sigma = 0.883$ mho/m; $\epsilon_r = 40.79$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=15mm, Pin=1000mW/Area Scan (31x121x1): Measurement

grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 10.555 mW/g

Configuration/d=15mm, Pin=1000mW/Zoom Scan (5x5x7) 2 2

(5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 113.5 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 13.2970

SAR(1 g) = 9.09 mW/g; SAR(10 g) = 5.98 mW/g

Maximum value of SAR (measured) = 10.623 mW/g

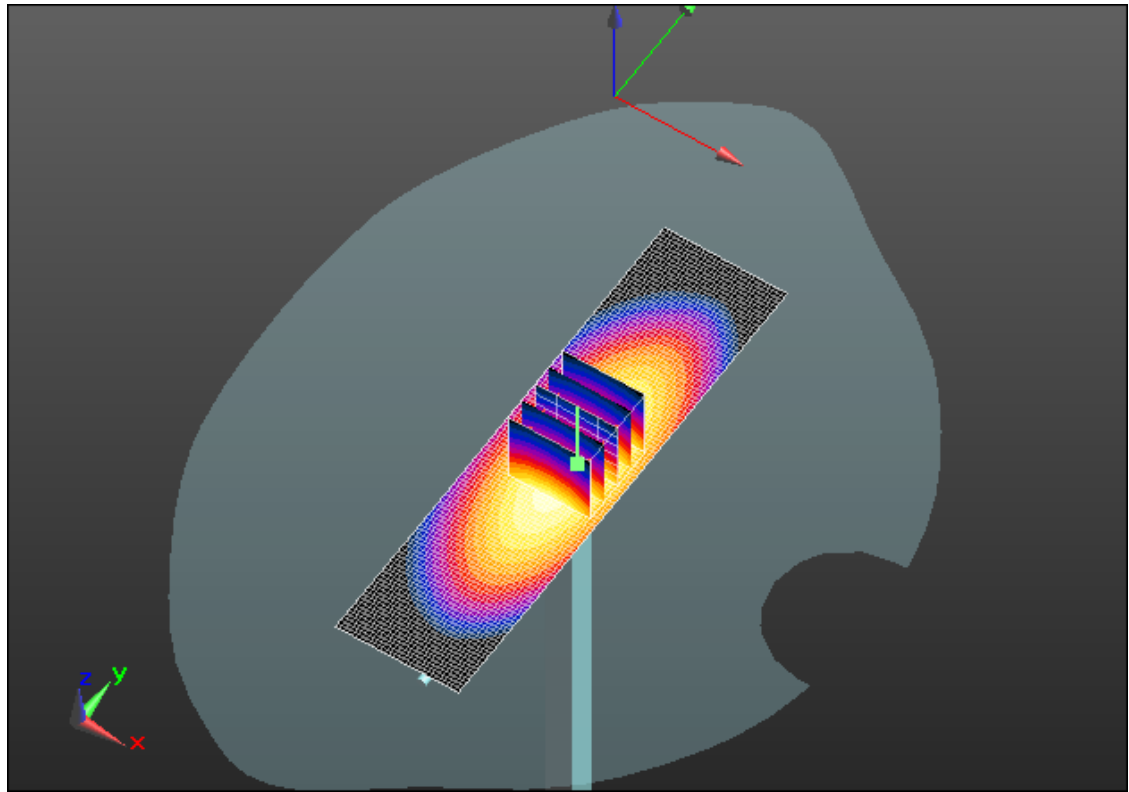
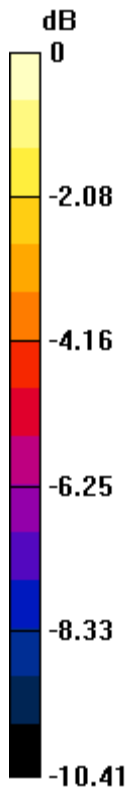
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 10.620mW/g = 20.52 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			8(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 9/18/2012 10:37:24 PM

Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_09_18_12_Amb_Tem_23.5_Liq_Tem_22.6C

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

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.398$ mho/m; $\epsilon_r = 38.429$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 49.277 mW/g

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube

0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 193.2 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 70.0690

SAR(1 g) = 38.8 mW/g; SAR(10 g) = 20.3 mW/g

Maximum value of SAR (measured) = 49.484 mW/g

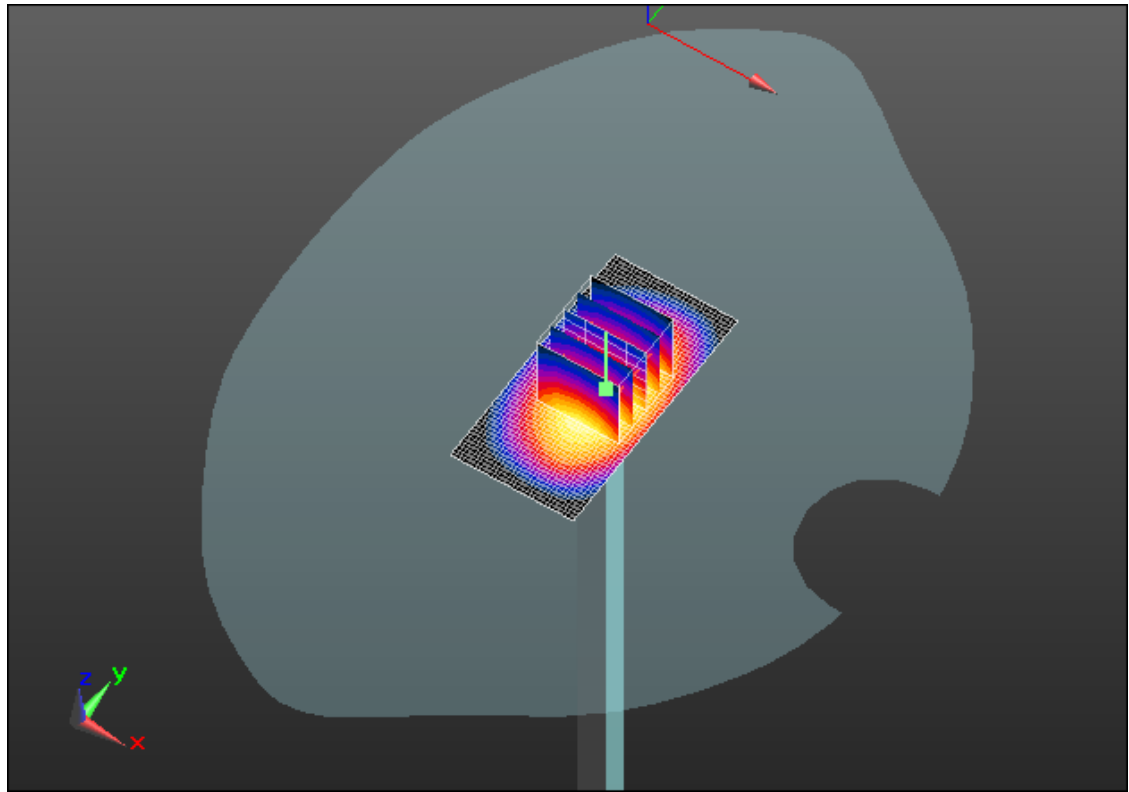
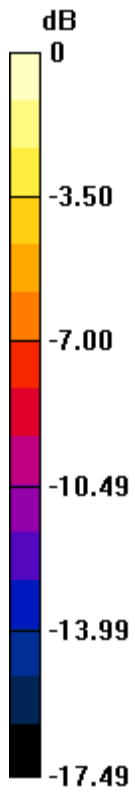
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 49.480mW/g = 33.89 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			10(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 11/1/2012 12:37:02 PM

Test Laboratory: RIM Testing Services

DipoleValidation_1900MHz_11_01_12_Amb_Tem_24.3_Liq_Tem_22.6C

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

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.391$ mho/m; $\epsilon_r = 39.733$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x61x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 49.686 mW/g

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube

0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 184.5 V/m; Power Drift = 0.0079 dB

Peak SAR (extrapolated) = 69.8610

SAR(1 g) = 38.5 mW/g; SAR(10 g) = 20.1 mW/g

Maximum value of SAR (measured) = 48.597 mW/g

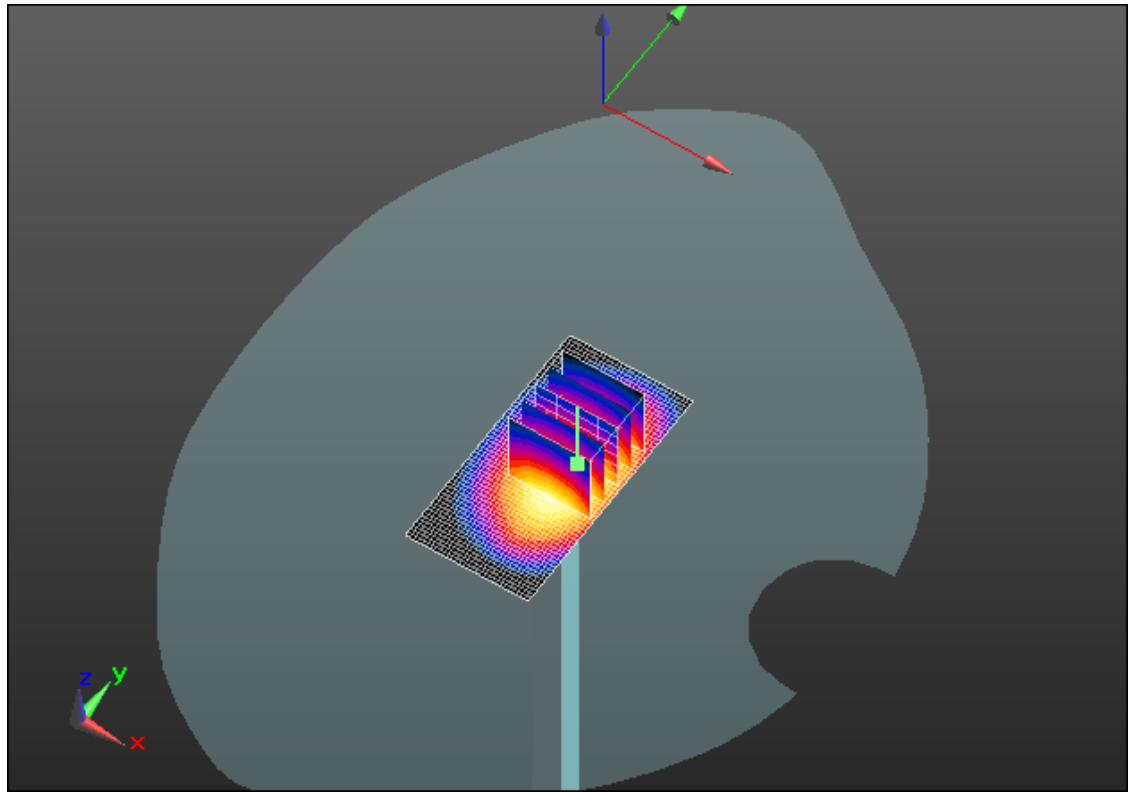
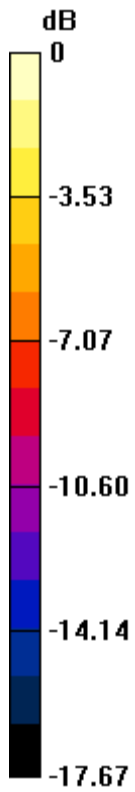
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 48.600mW/g = 33.73 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			12(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 11/5/2012 10:32:15 AM

Test Laboratory: RIM Testing Services

DipoleValidation_2450MHz_11_05_12_Amb_Tem_24.3_Liq_Tem_22.5C

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

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.815$ mho/m; $\epsilon_r = 38.236$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 2.0, 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/d=10mm, Pin=1000mW/Area Scan (31x41x1): Measurement

grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (interpolated) = 72.712 mW/g

Configuration/d=10mm, Pin=1000mW/Zoom Scan (5x5x7) 2 (5x5x7)/Cube

0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 206.8 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 110.90

SAR(1 g) = 54.7 mW/g; SAR(10 g) = 25.7 mW/g

Maximum value of SAR (measured) = 71.873 mW/g

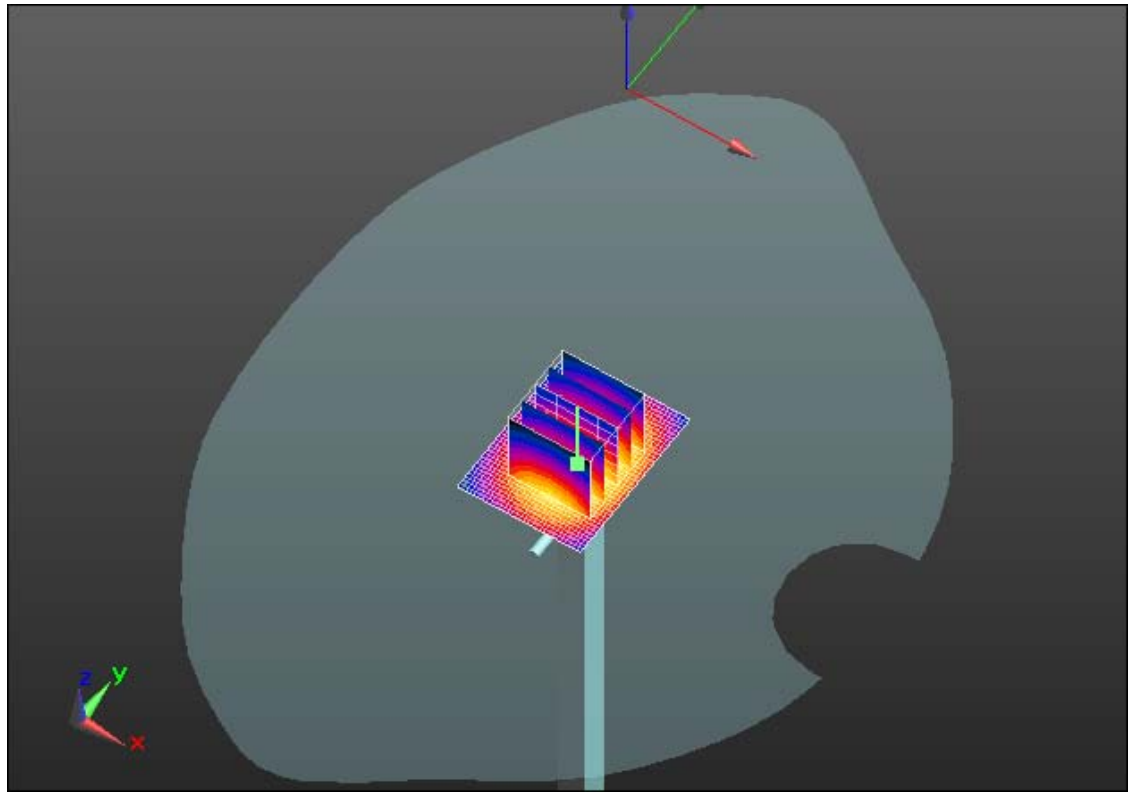
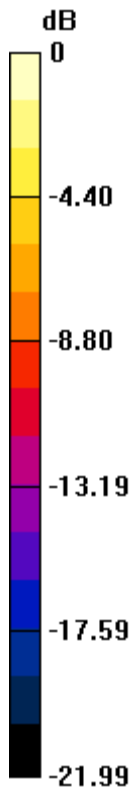
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 71.870mW/g = 37.13 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			14(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 10/9/2012 8:05:50 PM

Test Laboratory: RIM Testing Services

Dipole Validation_5200

MHz_10_09_12_Amb_Tem_23.1_Liq_Tem_21.6C

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

Communication System: CW; Frequency: 5200 MHz

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.705$ mho/m; $\epsilon_r = 34.487$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.89, 4.89, 4.89); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Area Scan (41x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 182.8 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 195.5 V/m; Power Drift = 0.0088 dB

Peak SAR (extrapolated) = 309.90

SAR(1 g) = 79.3 mW/g; SAR(10 g) = 23 mW/g

Maximum value of SAR (measured) = 162.5 mW/g

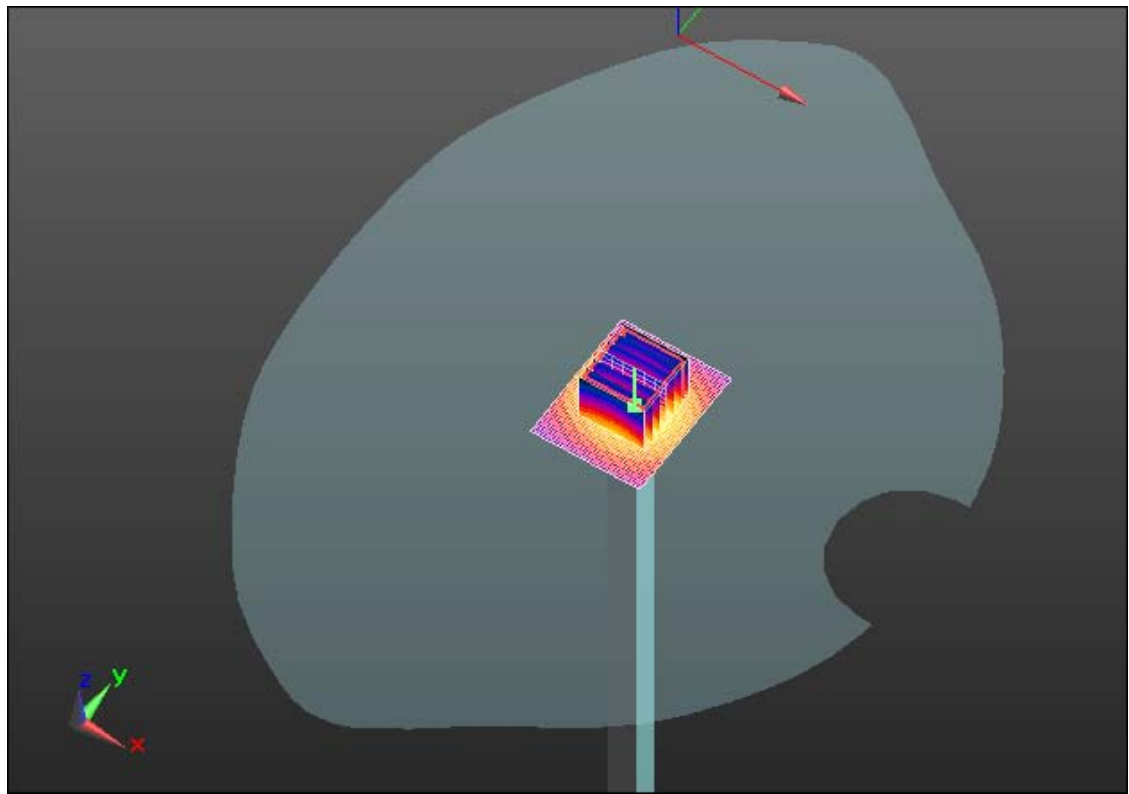
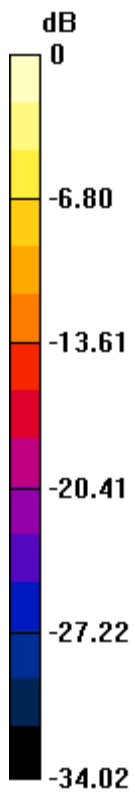
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 162.5mW/g = 44.22 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			16(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 10/12/2012 4:08:37 PM

Test Laboratory: RIM Testing Services

Dipole Validation_5200

MHz_10_12_12_Amb_Tem_23.5_Liq_Tem_22.5C

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

Communication System: CW; Frequency: 5200 MHz

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.645$ mho/m; $\epsilon_r = 34.483$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.89, 4.89, 4.89); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Area Scan (41x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 193.5 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 206.3 V/m; Power Drift = -0.0091 dB

Peak SAR (extrapolated) = 333.10

SAR(1 g) = 84.9 mW/g; SAR(10 g) = 24.7 mW/g

Maximum value of SAR (measured) = 176.2 mW/g

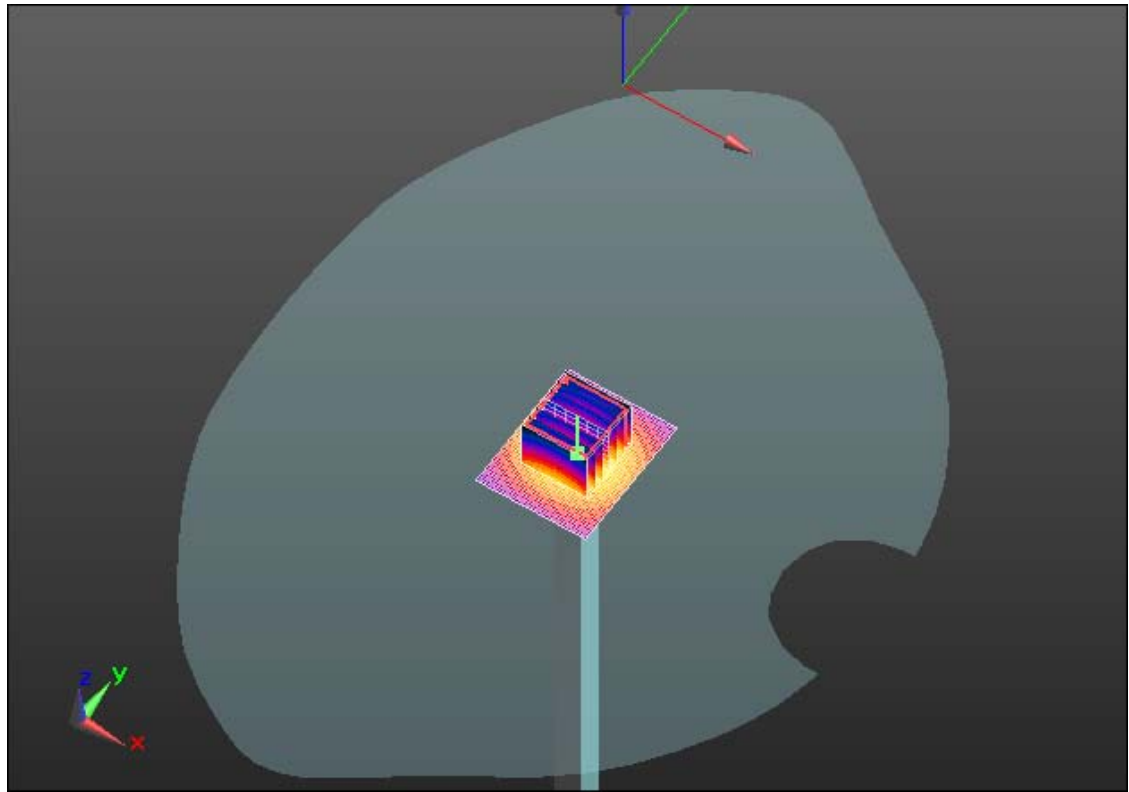
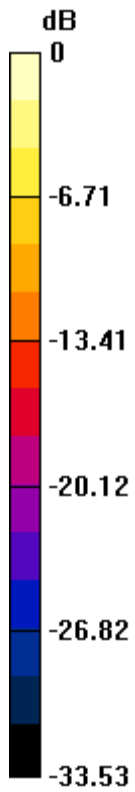
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 176.2mW/g = 44.92 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			18(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 10/15/2012 10:30:43 AM

Test Laboratory: RIM Testing Services

Dipole Validation_5200

MHz_10_15_12_Amb_Tem_23.5_Liq_Tem_22.7C

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

Communication System: CW; Frequency: 5200 MHz

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.762$ mho/m; $\epsilon_r = 34.599$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.89, 4.89, 4.89); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Area Scan (41x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 198.6 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 206.7 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 334.70

SAR(1 g) = 85.4 mW/g; SAR(10 g) = 24.7 mW/g

Maximum value of SAR (measured) = 179.5 mW/g

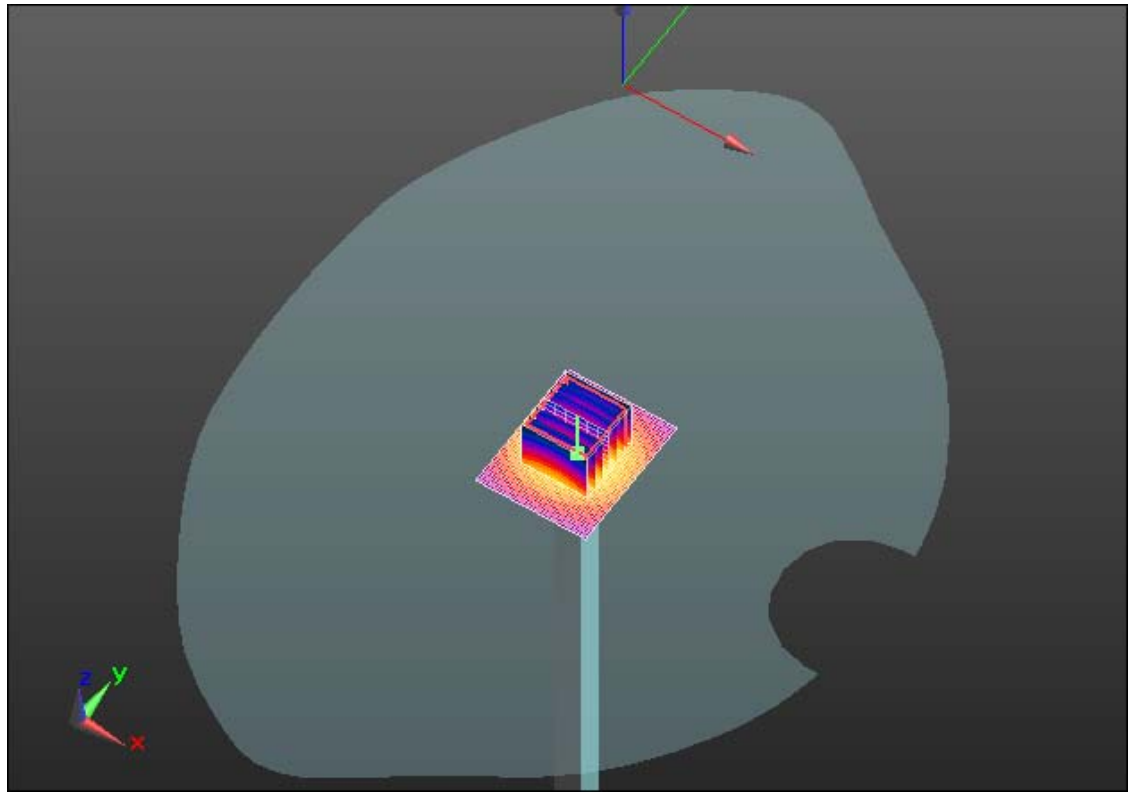
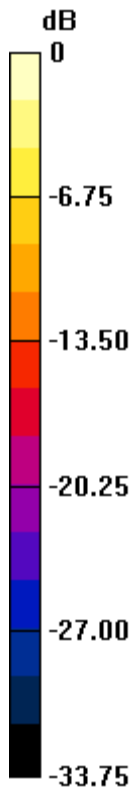
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 179.5mW/g = 45.08 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			20(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 11/6/2012 5:00:25 PM

Test Laboratory: RIM Testing Services

Dipole Validation_5200

MHz_11_06_12_Amb_Tem_24.1_Liq_Tem_22.8C

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

Communication System: CW; Frequency: 5200 MHz

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.675$ mho/m; $\epsilon_r = 35.578$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3548; ConvF(4.98, 4.98, 4.98); Calibrated: 1/14/2012
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Area Scan (41x51x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 196.2 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm, Pin=1000 mW, f=5200 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm), dist=2mm (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 206.6 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 323.60

SAR(1 g) = 86.3 mW/g; SAR(10 g) = 25.1 mW/g

Maximum value of SAR (measured) = 178.2 mW/g

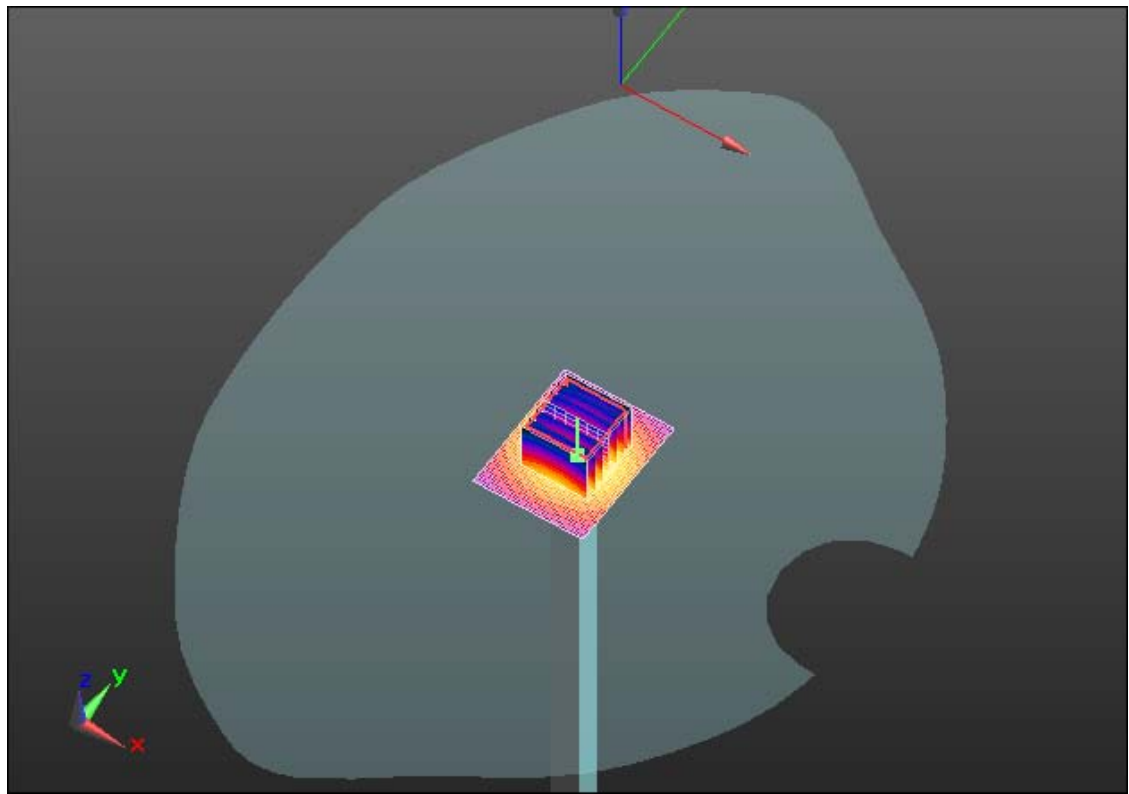
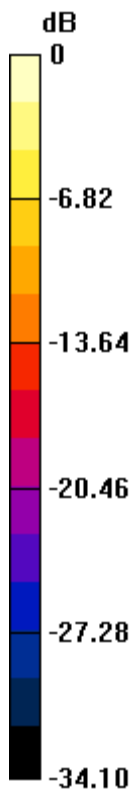
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 178.2mW/g = 45.02 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			22(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 10/9/2012 8:32:51 PM

Test Laboratory: RIM Testing Services

Dipole Validation_5500

MHz_10_09_12_Amb_Tem_23.2_Liq_Tem_21.6C

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

Communication System: CW-5GHz; Frequency: 5500 MHz

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.935$ mho/m; $\epsilon_r = 34.708$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.38, 4.38, 4.38); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5500 MHz/Area Scan (41x51x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 203.2 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5500 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm),

dist=2mm (7x7x9)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

Reference Value = 201.1 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 346.50

SAR(1 g) = 87.6 mW/g; SAR(10 g) = 25.4 mW/g

Maximum value of SAR (measured) = 180.3 mW/g

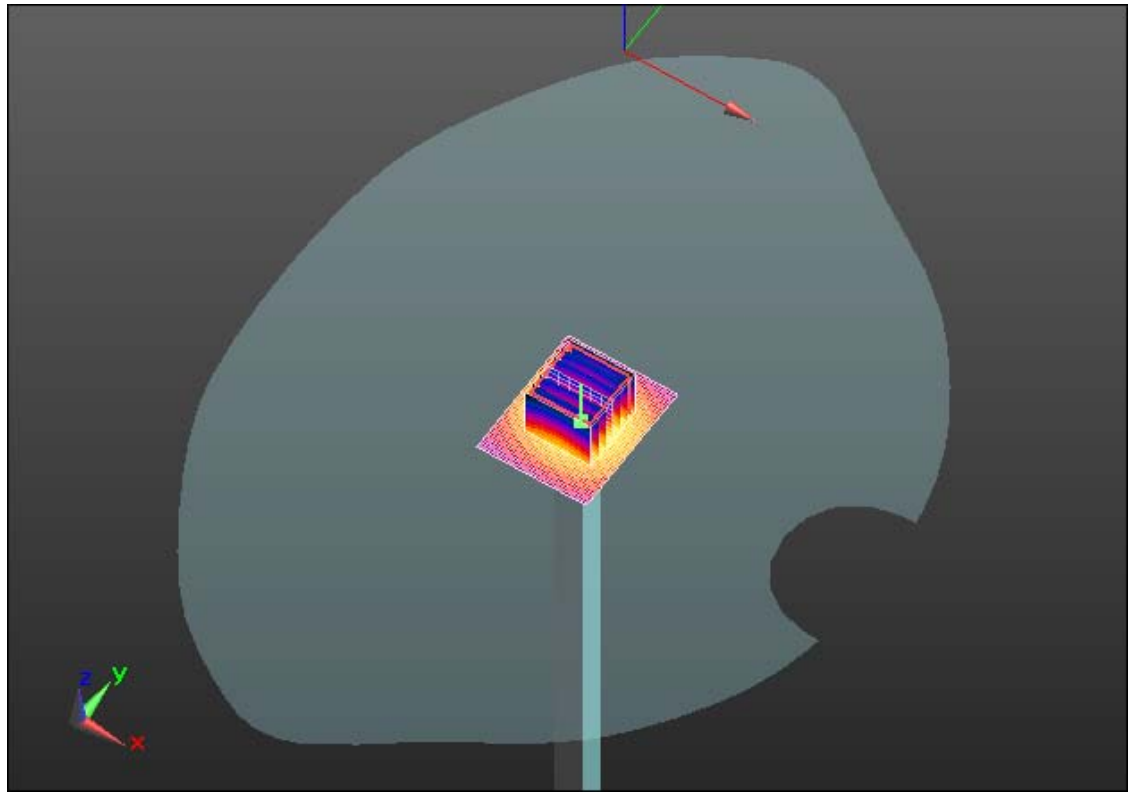
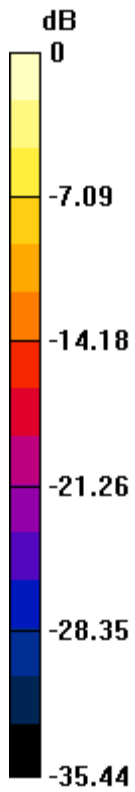
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 180.3mW/g = 45.12 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			24(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 10/12/2012 4:47:12 PM

Test Laboratory: RIM Testing Services

Dipole Validation_5500

MHz_10_12_12_Amb_Tem_23.5_Liq_Tem_22.7C

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

Communication System: CW-5GHz; Frequency: 5500 MHz

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.109$ mho/m; $\epsilon_r = 34.176$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.38, 4.38, 4.38); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5500 MHz/Area Scan (41x51x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 228.3 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5500 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm),

dist=2mm (7x7x9)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

Reference Value = 212.5 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 380.50

SAR(1 g) = 94.6 mW/g; SAR(10 g) = 27.1 mW/g

Maximum value of SAR (measured) = 198.4 mW/g

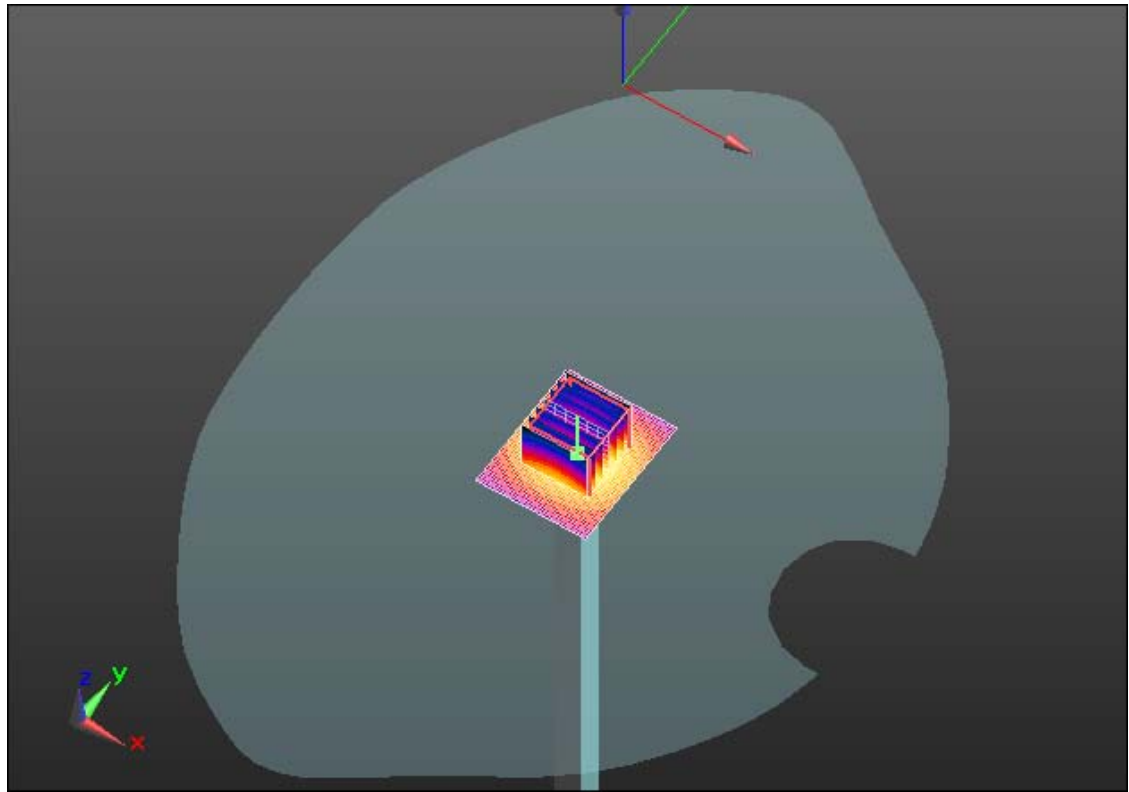
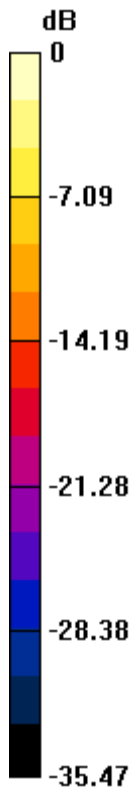
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 198.4mW/g = 45.95 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			26(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 10/15/2012 11:05:45 AM

Test Laboratory: RIM Testing Services

Dipole Validation_5500

MHz_10_15_12_Amb_Tem_24.0_Liq_Tem_22.7C

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

Communication System: CW-5GHz; Frequency: 5500 MHz

Medium parameters used: $f = 5500$ MHz; $\sigma = 5.069$ mho/m; $\epsilon_r = 34.37$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.38, 4.38, 4.38); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5500 MHz/Area Scan (41x51x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 215.5 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5500 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm),

dist=2mm (7x7x9)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

Reference Value = 209.2 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 352.10

SAR(1 g) = 90.3 mW/g; SAR(10 g) = 25.8 mW/g

Maximum value of SAR (measured) = 187.2 mW/g

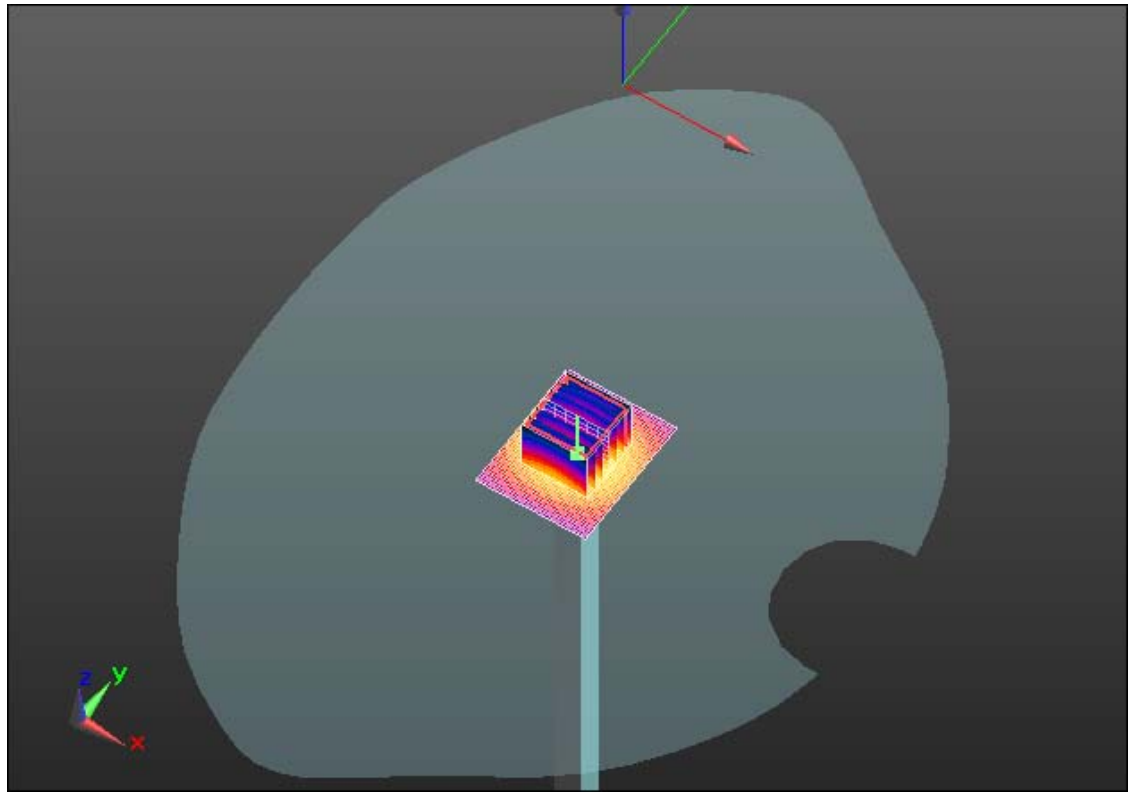
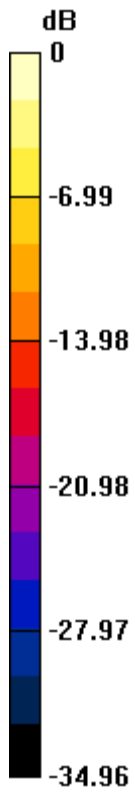
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 187.2mW/g = 45.45 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			28(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 10/9/2012 11:35:10 PM

Test Laboratory: RIM Testing Services

Dipole Validation_5800

MHz_10_09_12_Amb_Tem_23.1_Liq_Tem_21.6C

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

Communication System: CW-5GHz; Frequency: 5800 MHz

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.398$ mho/m; $\epsilon_r = 33.711$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.17, 4.17, 4.17); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5800 MHz/Area Scan (41x51x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 201.3 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5800 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm),

dist=2mm (7x7x9)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

Reference Value = 195.0 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 353.90

SAR(1 g) = 85.4 mW/g; SAR(10 g) = 24.6 mW/g

Maximum value of SAR (measured) = 180.2 mW/g

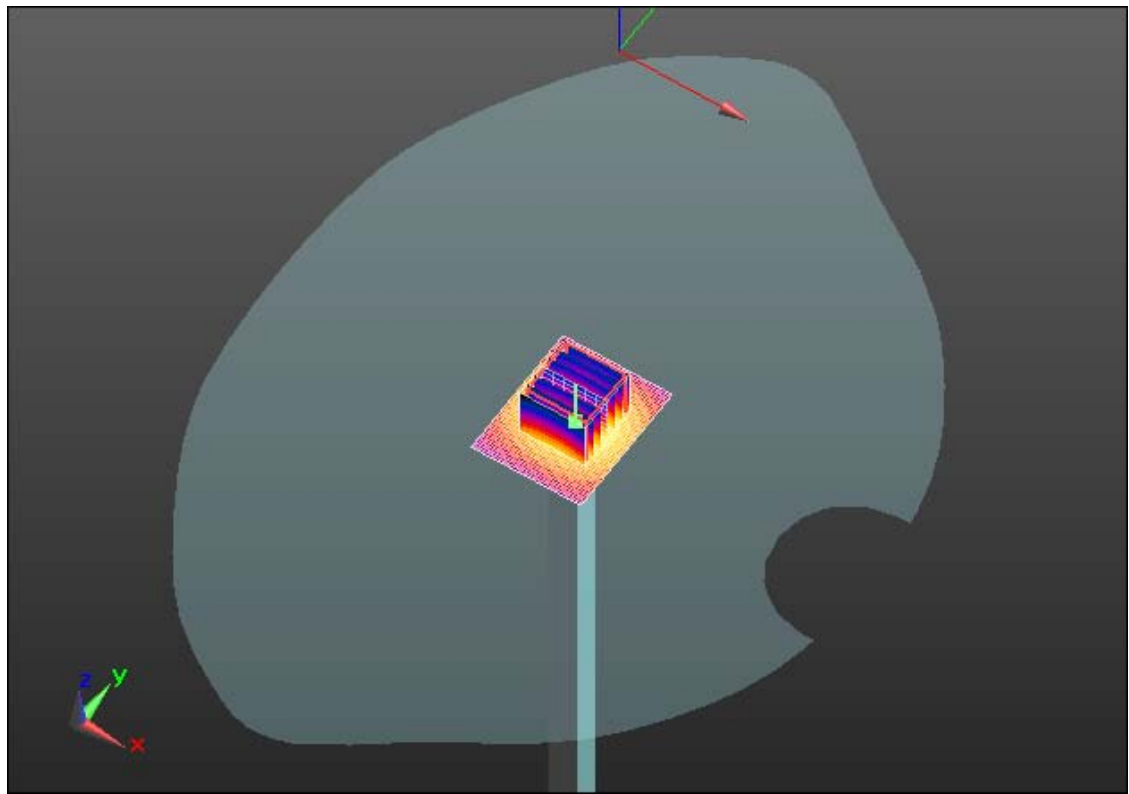
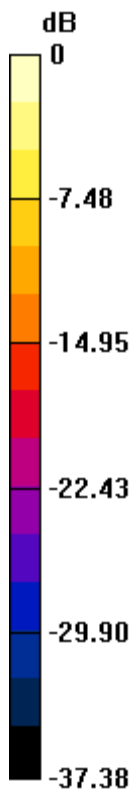
Author Data
Andrew Becker

Dates of Test
Sept 18 – Nov 7, 2012


Test Report No
RTS-6012-1211-22

FCC ID:
L6ARFH120LW

IC ID
2503A-RFH120LW



0 dB = 180.2mW/g = 45.12 dB mW/g

	Document			Page
	Appendix A for the BlackBerry® Smartphone Model RFH121LW SAR Report			30(31)
Author Data	Dates of Test	Test Report No	FCC ID:	IC ID
Andrew Becker	Sept 18 – Nov 7, 2012	RTS-6012-1211-22	L6ARFH120LW	2503A-RFH120LW

Date/Time: 10/15/2012 11:41:15 AM

Test Laboratory: RIM Testing Services

Dipole Validation_5800

MHz_10_15_12_Amb_Tem_24.2_Liq_Tem_22.6C

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

Communication System: CW-5GHz; Frequency: 5800 MHz

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.517$ mho/m; $\epsilon_r = 34.52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY Configuration:

- Probe: EX3DV4 - SN3592; ConvF(4.17, 4.17, 4.17); Calibrated: 11/16/2011
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = 1.0, 21.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS2 52.8.0(692); SEMCAD X 14.6.4(4989)

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5800 MHz/Area Scan (41x51x1): Measurement grid:

$dx=10$ mm, $dy=10$ mm

Maximum value of SAR (interpolated) = 198.5 mW/g

System Performance Check with D5GHzV2 Dipole/d=10mm,

Pin=1000mW, f=5800 MHz/Zoom Scan -Ext(24x24x20), Step (4x4x2.5mm),

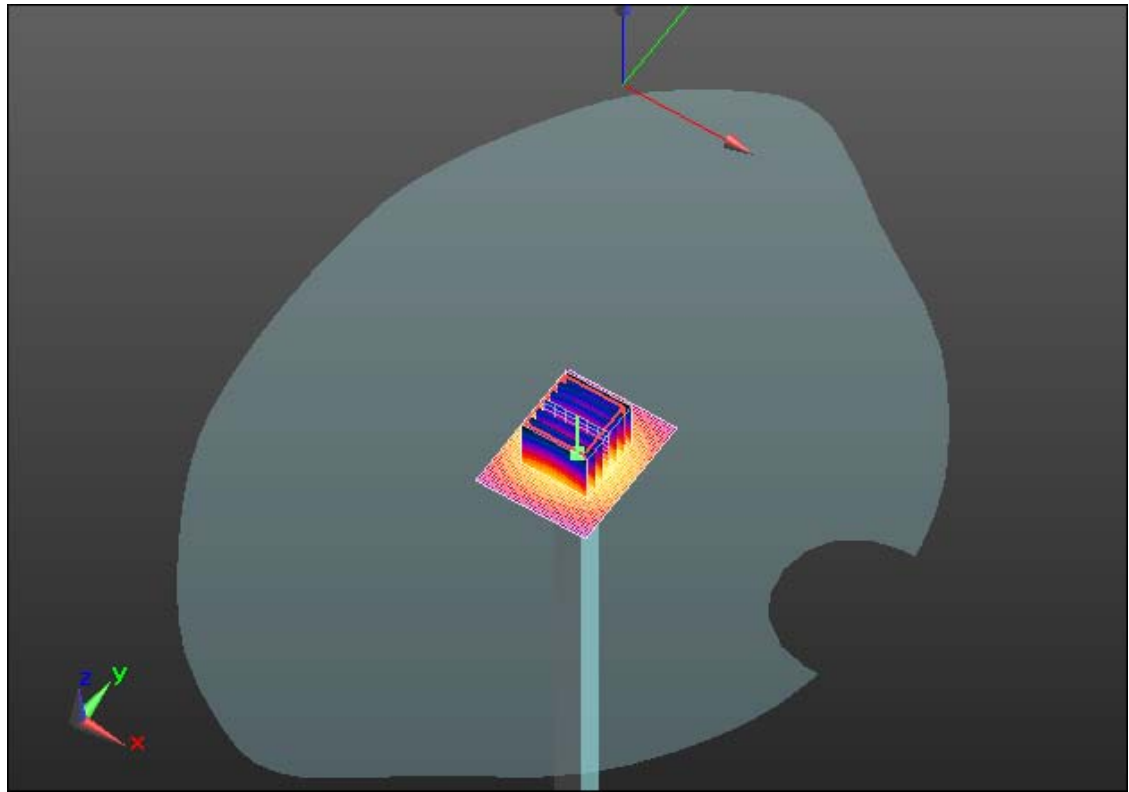
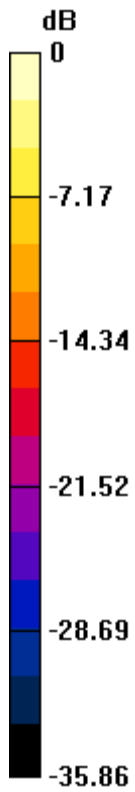
dist=2mm (7x7x9)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2.5$ mm

Reference Value = 193.8 V/m; Power Drift = 0.0073 dB

Peak SAR (extrapolated) = 338.20

SAR(1 g) = 82.9 mW/g; SAR(10 g) = 23.9 mW/g

Maximum value of SAR (measured) = 174.2 mW/g



0 dB = 174.2mW/g = 44.82 dB mW/g