
	Document Appendix B2 for the BlackBerry® Smartphone Model RFA91LW SAR Report			Page 1(53)
	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

**APPENDIX B2: VOLUME SCANS AND MULTI-BAND AVERAGE SAR DISTRIBUTION PLOTS
FOR HEAD CONFIGURATION**

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Date/Time: 11/13/2012 11:30:58 AM

Test Laboratory: RIM Testing Services

Volume_Scan_RightHandside_LTE_13_singleLayer

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F9758

Communication System: LTE 700_Band 13; Frequency: 782 MHz

Medium parameters used (interpolated): $f = 782$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 40.229$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 32.0$
- 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/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm


Reference Value = 20.737 V/m; Power Drift = 0.15 dB

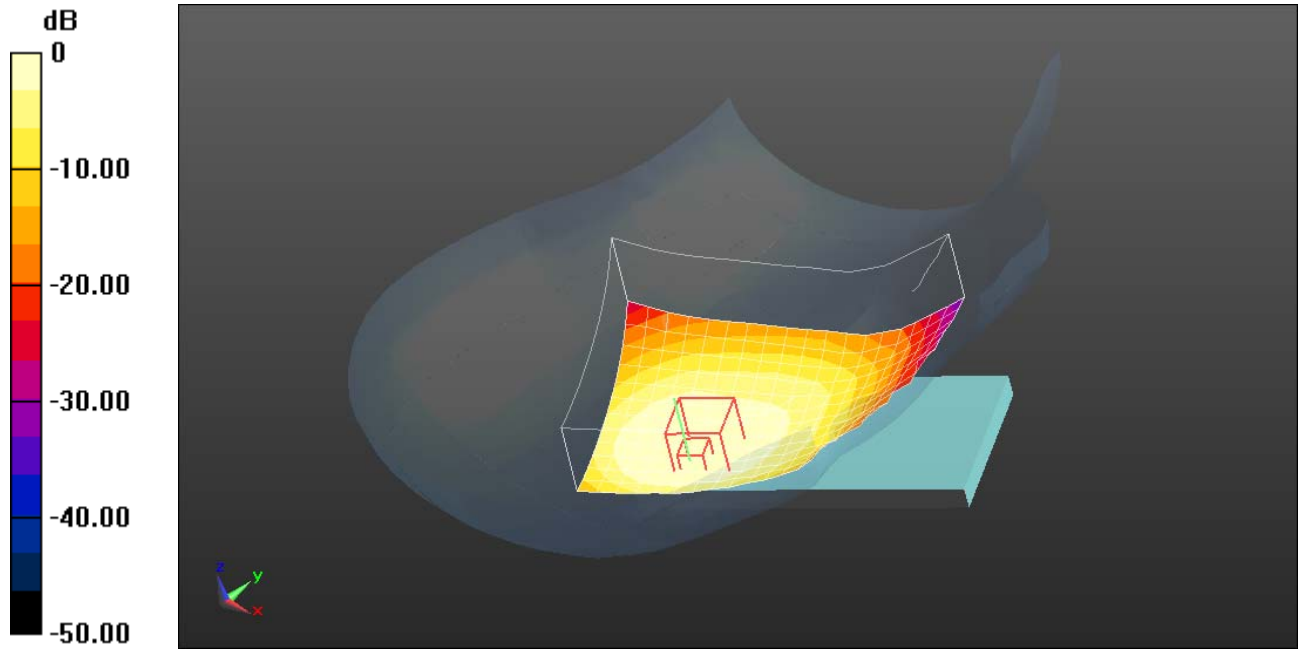
Peak SAR (extrapolated) = 0.6520

SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.268 mW/g


[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.486 mW/g

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		IC ID 2503A-RFA90LW	



0 dB = 0.490mW/g = -6.20 dB mW/g

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Date/Time: 11/13/2012 11:30:58 AM

Test Laboratory: RIM Testing Services

Volume_Scan_RightHandside_LTE_13_multiLayer

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F9758

Communication System: LTE 700_Band 13; Frequency: 782 MHz

Medium parameters used (interpolated): $f = 782$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 40.229$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm


Reference Value = 20.737 V/m; Power Drift = 0.15 dB

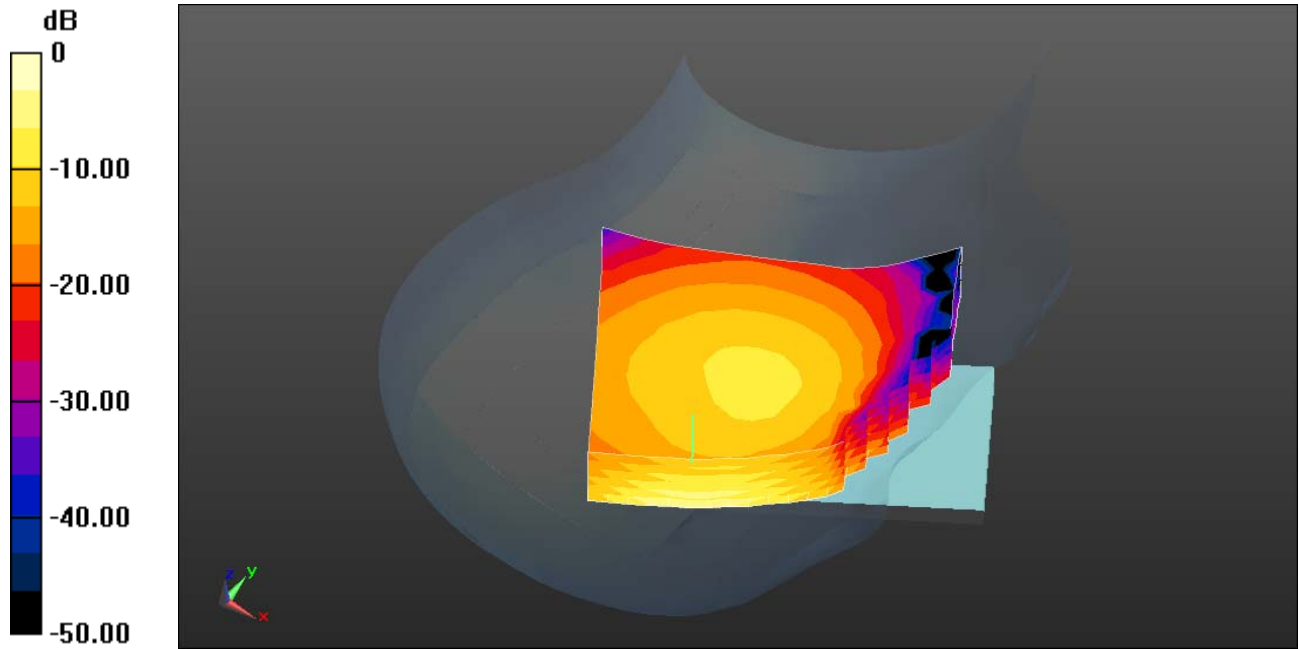
Peak SAR (extrapolated) = 0.6520

SAR(1 g) = 0.416 mW/g; SAR(10 g) = 0.268 mW/g


[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.486 mW/g

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0 dB = 0.490mW/g = -6.20 dB mW/g

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Date/Time: 10/31/2012 2:50:23 PM

Test Laboratory: RIM Testing Services

**Volume_Scan_RightHandSide_CDMA850_mid_chan_amb_temp_23.4C
_liq_temp_22.8C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F96D2

Communication System: CDMA 850; Frequency: 836.52 MHz
Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.883$ mho/m; $\epsilon_r = 40.786$;
 $\rho = 1000$ kg/m³
Phantom section: Right Section
Measurement Standard: DASYS5 (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), $z = 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS5 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 9.470 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.1660

SAR(1 g) = 0.967 mW/g; SAR(10 g) = 0.737 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.997 mW/g

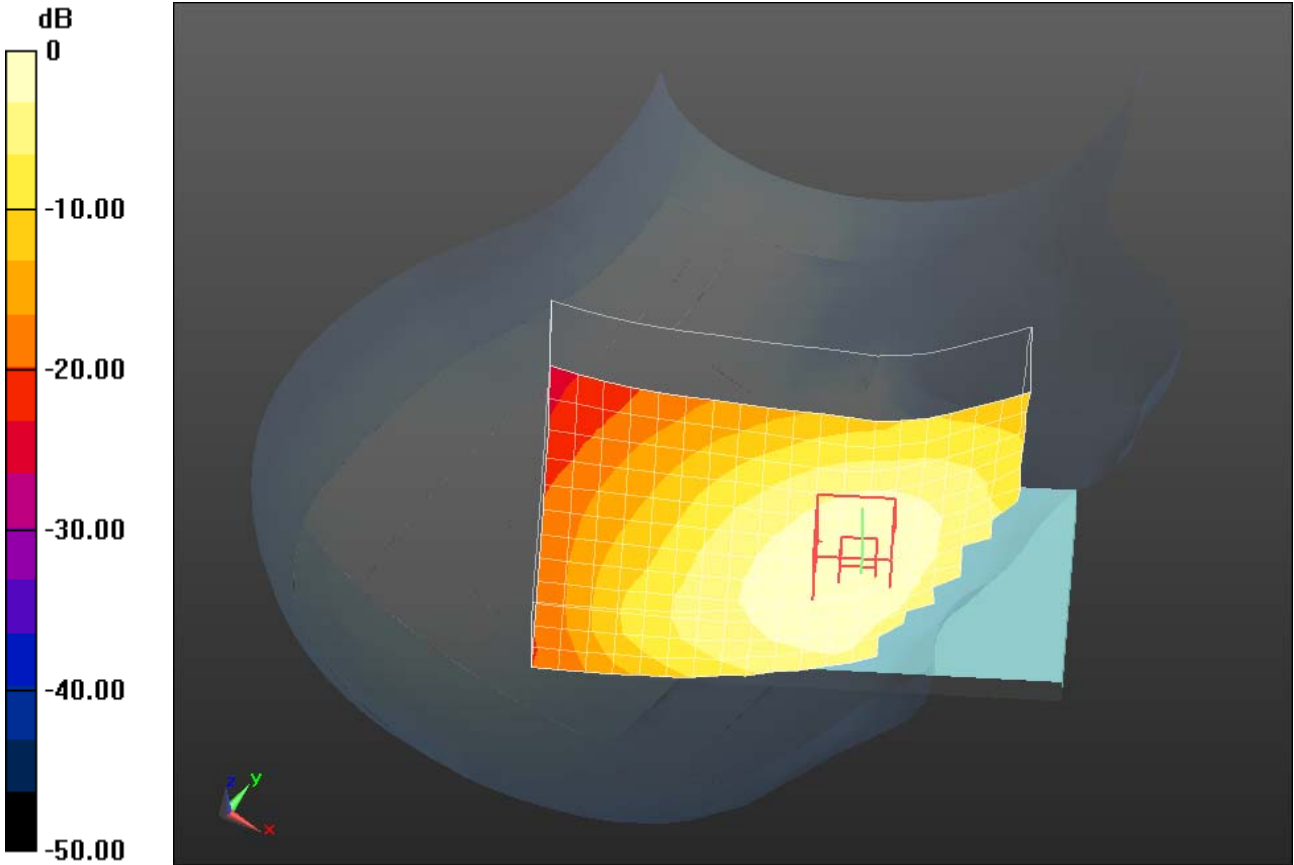
Author Data
Andrew Becker

Dates of Test
**Aug 21 – Nov 23, 2012
Jan. 07-11, 2013**


Test Report No
**RTS-6012-1211-32
Rev 3**

FCC ID:
L6ARFA90LW

IC ID
2503A-RFA90LW



0 dB = 1.000mW/g = 0 dB mW/g

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Date/Time: 10/31/2012 2:50:23 PM

Test Laboratory: RIM Testing Services

Volume_Scan_RightHandSide_CDMA850_mid_chan_amb_temp_23.4C
_liq_temp_22.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F96D2

Communication System: CDMA 850; Frequency: 836.52 MHz
Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.883$ mho/m; $\epsilon_r = 40.786$;
 $\rho = 1000$ kg/m³
Phantom section: Right 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), $z = 32.0$
- 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/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm


Reference Value = 9.470 V/m; Power Drift = 0.05 dB

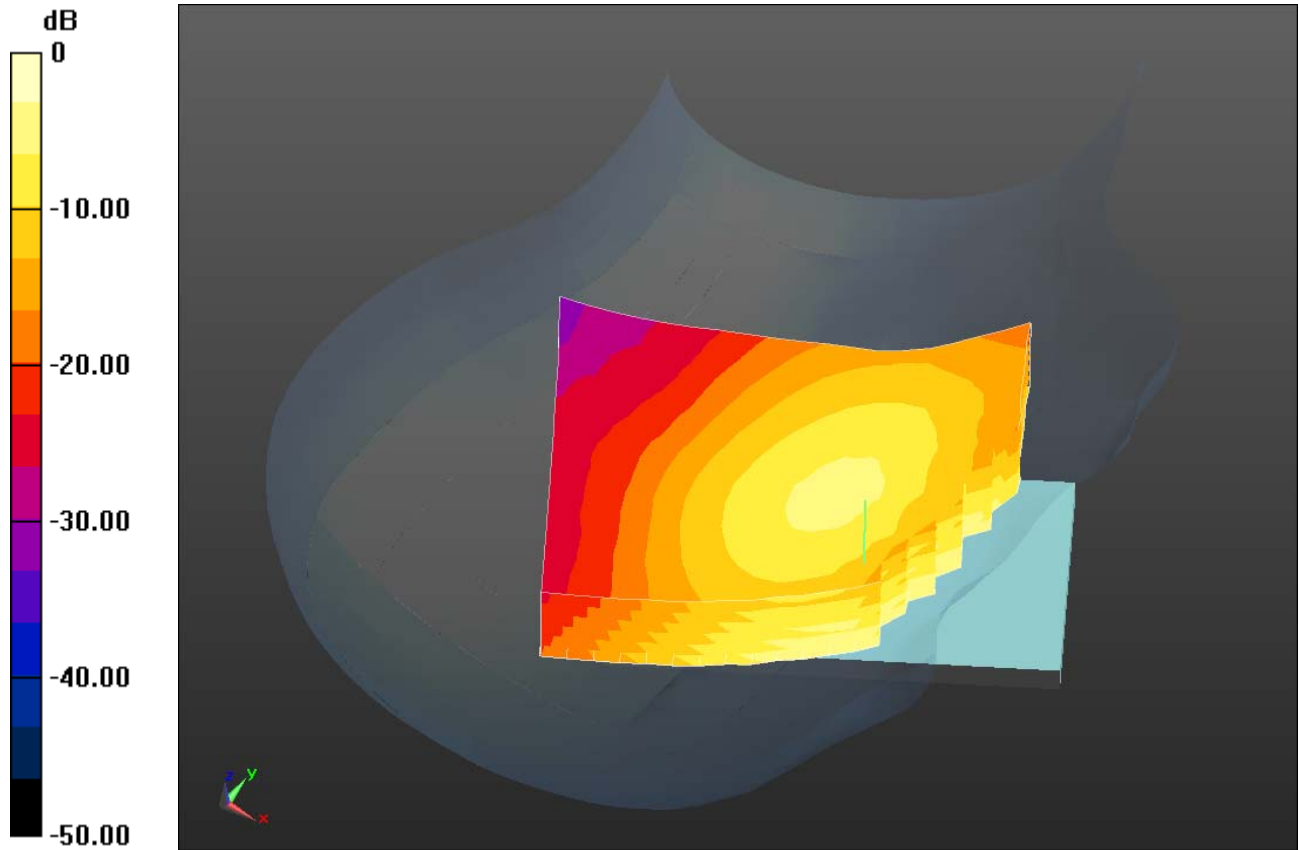
Peak SAR (extrapolated) = 1.1660

SAR(1 g) = 0.967 mW/g; SAR(10 g) = 0.737 mW/g


[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.997 mW/g

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0 dB = 1.000mW/g = 0 dB mW/g

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Date/Time: 11/1/2012 2:16:03 PM

Test Laboratory: RIM Testing Services

Volume_Scan_RightHandSide_CDMA1900_mid_chan_amb_temp_23.5
C_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F96D2

Communication System: CDMA 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.373$ mho/m; $\epsilon_r = 39.835$; $\rho = 1000$ kg/m³

Phantom section: Right 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), $z = 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 11.918 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.9230

SAR(1 g) = 0.639 mW/g; SAR(10 g) = 0.410 mW/g

Maximum value of SAR (measured) = 0.718 mW/g

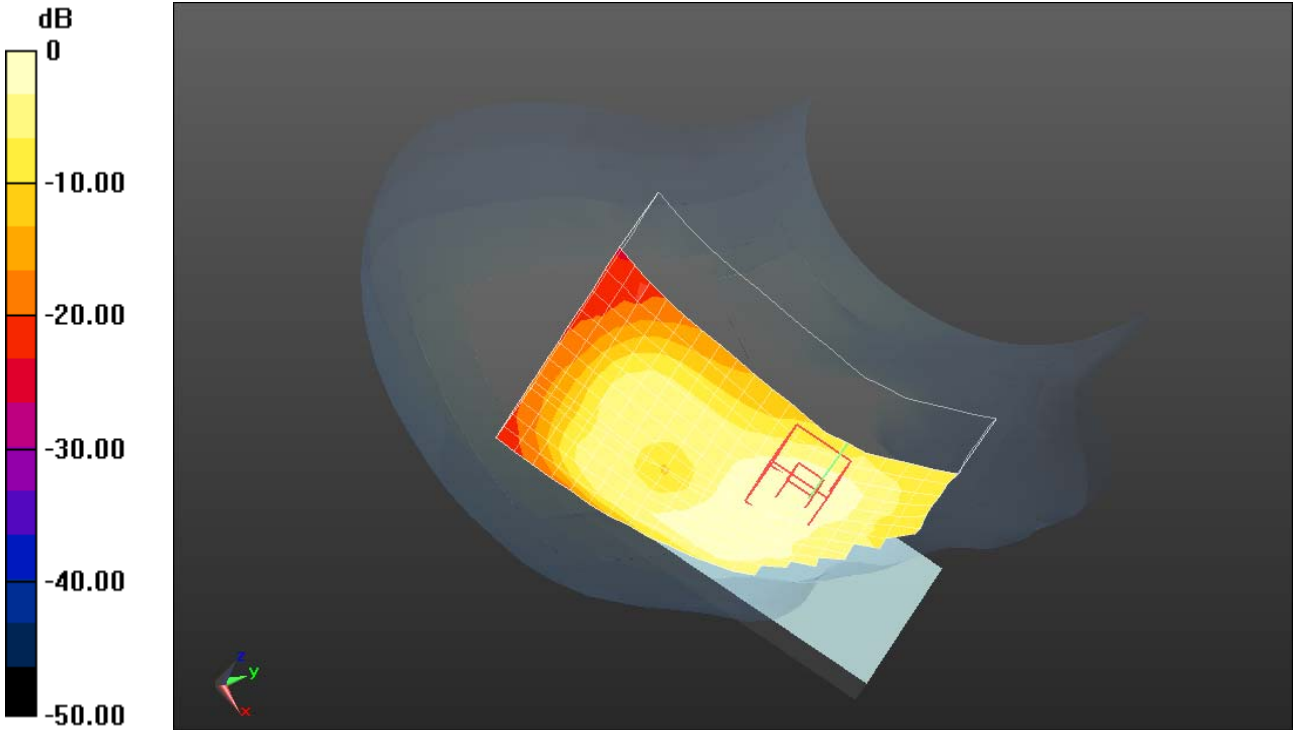
Author Data
Andrew Becker

Dates of Test
**Aug 21 – Nov 23, 2012
Jan. 07-11, 2013**


Test Report No
**RTS-6012-1211-32
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FCC ID:
L6ARFA90LW

IC ID
2503A-RFA90LW



0 dB = 0.720mW/g = -2.85 dB mW/g

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Date/Time: 11/1/2012 2:16:03 PM

Test Laboratory: RIM Testing Services

Volume_Scan_RightHandSide_CDMA1900_mid_chan_amb_temp_23.5
C_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F96D2

Communication System: CDMA 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.373$ mho/m; $\epsilon_r = 39.835$; $\rho = 1000$ kg/m³

Phantom section: Right 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), $z = 32.0$
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- DASYS 52.8.0(692); SEMCAD X 14.6.4(4989)

Configuration/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 11.918 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.9230

SAR(1 g) = 0.639 mW/g; SAR(10 g) = 0.410 mW/g

Maximum value of SAR (measured) = 0.718 mW/g

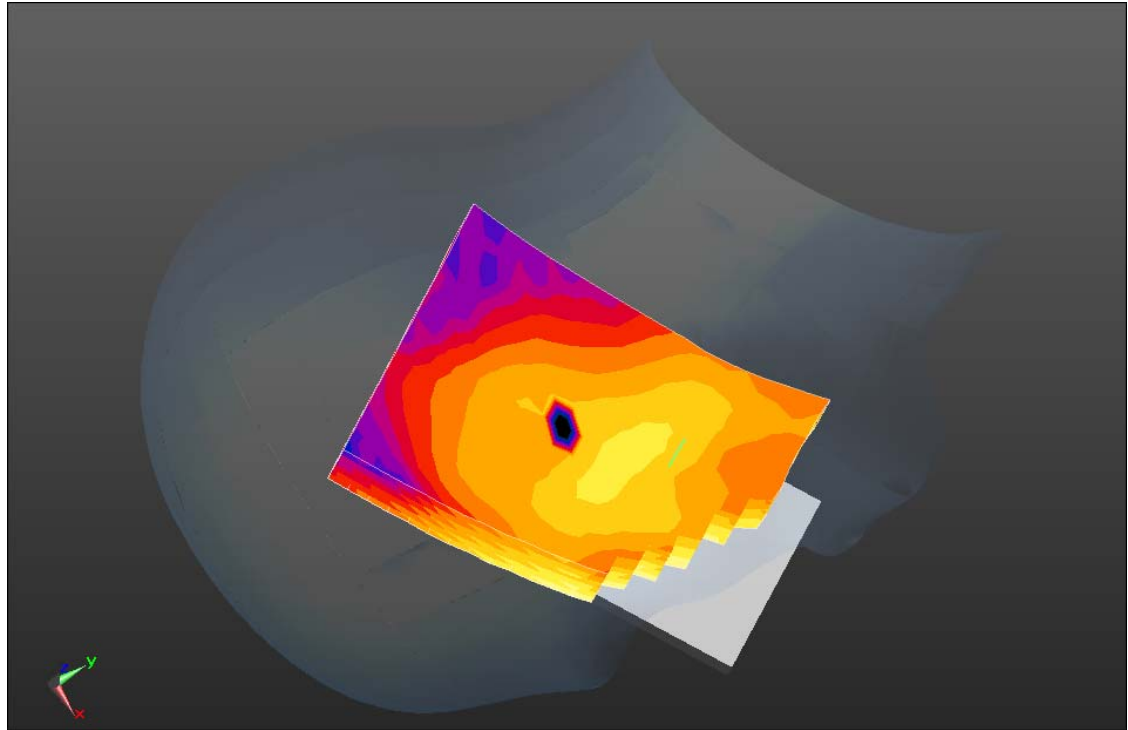
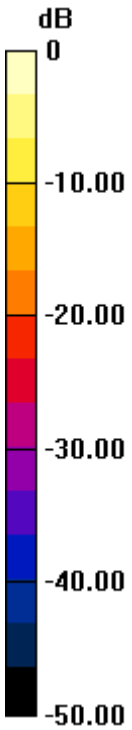
Author Data
Andrew Becker

Dates of Test
**Aug 21 – Nov 23, 2012
Jan. 07-11, 2013**


Test Report No
**RTS-6012-1211-32
Rev 3**

FCC ID:
L6ARFA90LW

IC ID
2503A-RFA90LW



0 dB = 0.720mW/g = -2.85 dB mW/g

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Multi-Band Average

SAR_Right_Head_Touch_CDMA850_LTE13_802.11b_Singlelayer

Multi-Band Configurations:

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/13/2012 11:30:58 AM

Test Laboratory: RIM Testing Services

File Name:

[Volume Scan RightHandside LTE 13 mid chan QPSK RB 1 Offset 0 amb temp 23.9 liq temp 23.0C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F9758

Communication System: LTE 700_Band 13; Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 40.229$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:


Date/Time: 10/31/2012 2:50:23 PM

Test Laboratory: RIM Testing Services

File Name:

[Volume Scan RightHandSide CDMA850 mid chan amb temp 23.4C liq temp 22.8 C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

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Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL835 Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.883 \text{ mho/m}$; $\epsilon_r = 40.786$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/5/2012 1:35:52 PM
Test Laboratory: RIM Testing Services
File Name:

[Volume Scan RightHandSide 802.11b high chan amb temp 24.3C liq temp 22.6C.da52:0](#)


DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

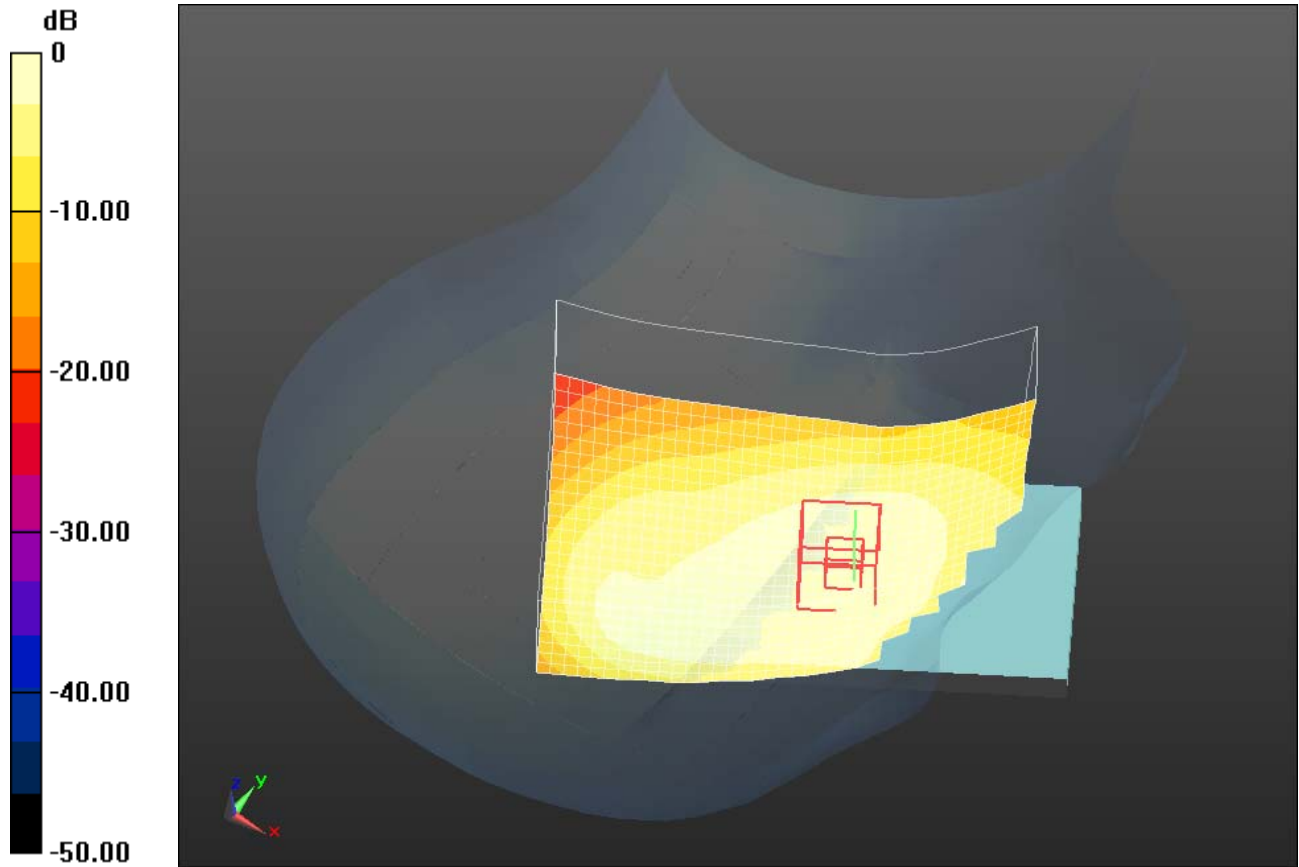
Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.825 \text{ mho/m}$; $\epsilon_r = 38.149$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)


Multi Band Result:

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.847 mW/g
Maximum value of SAR (interpolated) = 1.303 mW/g

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0 dB = 1.300mW/g = 2.28 dB mW/g

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Multi-Band Average

SAR_Right_Head_Touch_CDMA850_LTE13_802.11b_Multilayer

Multi-Band Configurations:

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/13/2012 11:30:58 AM

Test Laboratory: RIM Testing Services

File Name:

[Volume Scan RightHandside LTE 13 mid chan QPSK RB 1 Offset 0 amb temp 23.9 liq temp 23.0C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F9758

Communication System: LTE 700_Band 13; Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 40.229$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 10/31/2012 2:50:23 PM


Test Laboratory: RIM Testing Services

File Name:

[Volume Scan RightHandSide CDMA850 mid chan amb temp 23.4C liq temp 22.8 C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Medium: HSL835 Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.883$ mho/m; $\epsilon_r = 40.786$; $\rho = 1000$ kg/m³
Phantom section: Right Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/5/2012 1:35:52 PM
Test Laboratory: RIM Testing Services
File Name:

[Volume Scan RightHandSide 802.11b_high_chan_amb_temp_24.3C_liq_temp_22.6C_da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.825$ mho/m; $\epsilon_r = 38.149$; $\rho = 1000$ kg/m³

Phantom section: Right Section


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

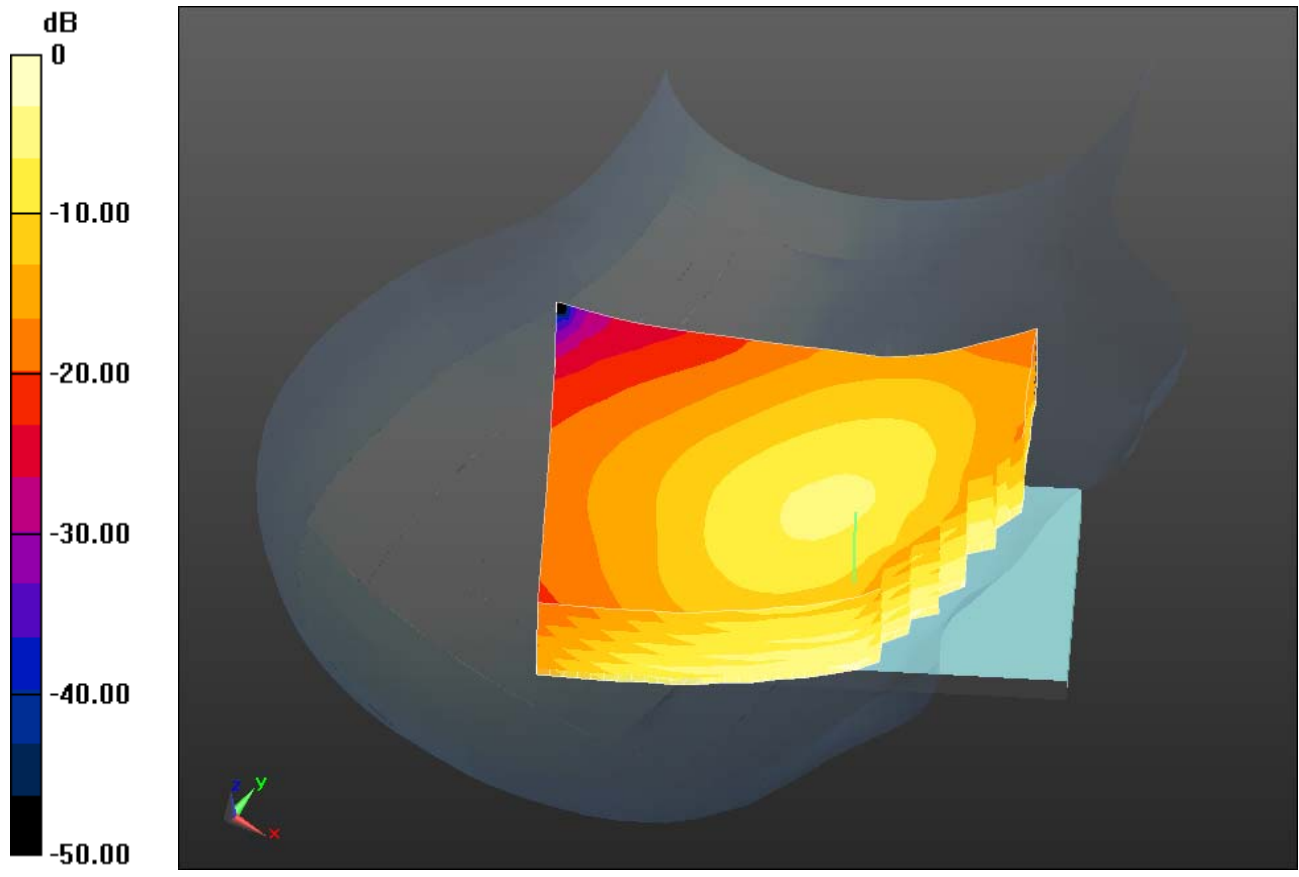
- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

Multi Band Result:


SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.847 mW/g

Maximum value of SAR (interpolated) = 1.303 mW/g

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0 dB = 1.300mW/g = 2.28 dB mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Multi-Band Average

SARRight_Head_Touch_CDMA1900_LTE13_802.11b_Singlelayer

Multi-Band Configurations:

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/13/2012 11:30:58 AM

Test Laboratory: RIM Testing Services

File Name:

[Volume Scan RightHandside LTE 13 mid chan QPSK RB 1 Offset 0 amb temp 23.9 liq temp 23.0C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F9758

Communication System: LTE 700_Band 13; Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 40.229$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/1/2012 2:16:03 PM


Test Laboratory: RIM Testing Services

File Name:

[Volume Scan RightHandSide CDMA1900 mid chan amb temp 23.5C liq temp 22.6C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.373$ mho/m; $\epsilon_r = 39.835$; $\rho = 1000$ kg/m³
Phantom section: Right Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/5/2012 1:35:52 PM
Test Laboratory: RIM Testing Services
File Name:

[Volume Scan RightHandSide 802.11b_high_chan_amb_temp_24.3C_liq_temp_22.6C_da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.825$ mho/m; $\epsilon_r = 38.149$; $\rho = 1000$ kg/m³

Phantom section: Right Section


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

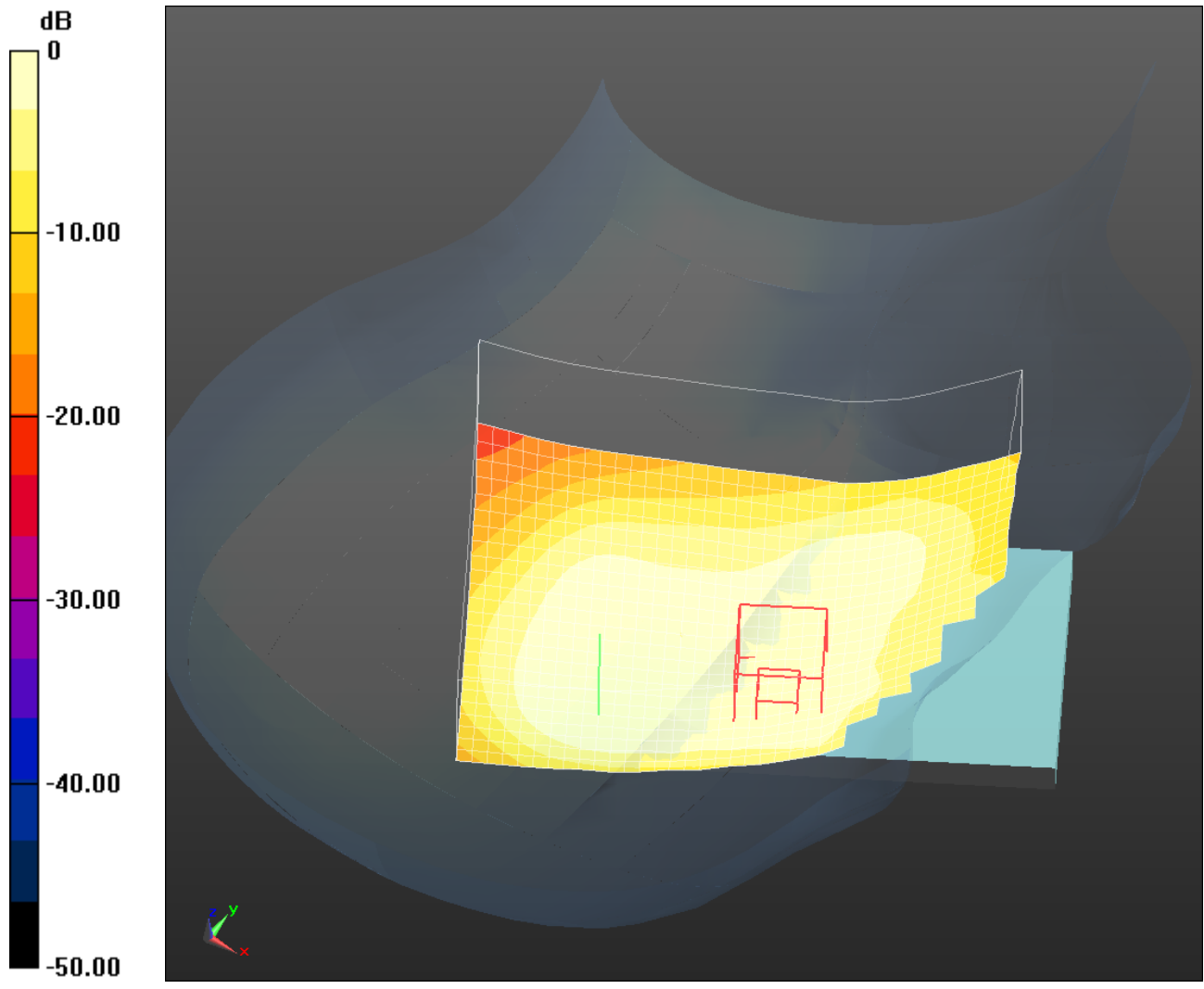
- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

Multi Band Result:


SAR(1 g) = 0.749 mW/g; SAR(10 g) = 0.518 mW/g

Maximum value of SAR (interpolated) = 1.099 mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW



0 dB = 1.100mW/g = 0.83 dB mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Multi-Band Average

SAR_Right_Head_Touch_CDMA1900_LTE13_802.11b_Multilayer

Multi-Band Configurations:

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/13/2012 11:30:58 AM

Test Laboratory: RIM Testing Services

File Name:

[Volume Scan RightHandside LTE 13 mid chan QPSK RB 1 Offset 0 amb temp 23.9 liq temp 23.0C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F9758

Communication System: LTE 700_Band 13; Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 40.229$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

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

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/1/2012 2:16:03 PM


Test Laboratory: RIM Testing Services

File Name:

[Volume Scan RightHandSide CDMA1900 mid chan amb temp 23.5C liq temp 22.6C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

	Document Appendix B2 for the BlackBerry® Smartphone Model RFA91LW SAR Report			Page 24(53)
	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.373$ mho/m; $\epsilon_r = 39.835$; $\rho = 1000$ kg/m³

Phantom section: Right Section

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

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/5/2012 1:35:52 PM

Test Laboratory: RIM Testing Services

File Name:

[Volume Scan RightHandSide 802.11b_high_chan_amb_temp_24.3C_liq_temp_22.6C_da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.825$ mho/m; $\epsilon_r = 38.149$; $\rho = 1000$ kg/m³

Phantom section: Right Section


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

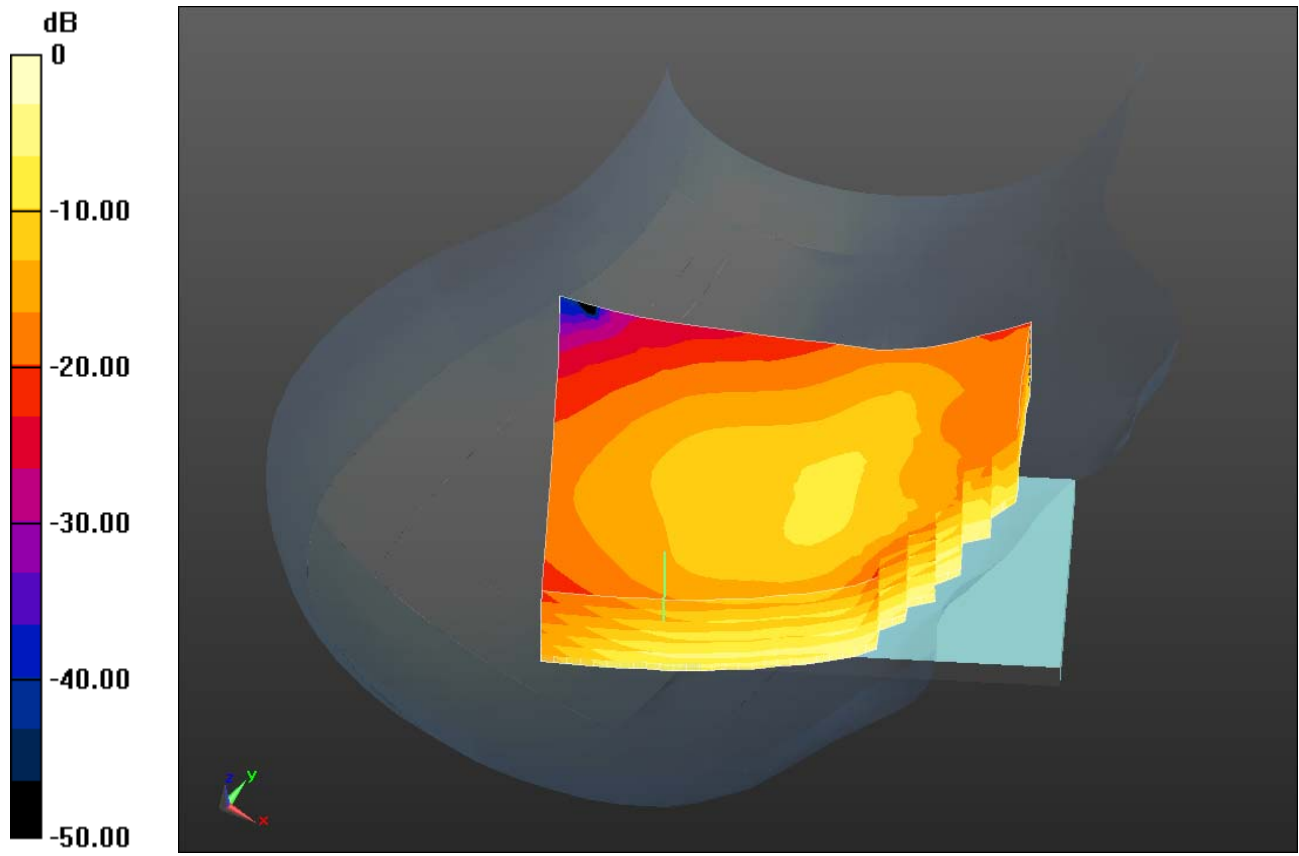
- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

Multi Band Result:


SAR(1 g) = 0.749 mW/g; SAR(10 g) = 0.518 mW/g

Maximum value of SAR (interpolated) = 1.099 mW/g

	Document Appendix B2 for the BlackBerry® Smartphone Model RFA91LW SAR Report			Page 25(53)
	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW



0 dB = 1.100mW/g = 0.83 dB mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Date/Time: 11/13/2012 2:38:49 PM

Test Laboratory: RIM Testing Services

Volume_Scan_LeftHandside_LTE_13_singleLayer

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F9758

Communication System: LTE 700_Band 13; Frequency: 782 MHz

Medium parameters used (interpolated): $f = 782$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 40.229$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 32.0$
- 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/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 19.816 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.5550

SAR(1 g) = 0.375 mW/g; SAR(10 g) = 0.257 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.435 mW/g

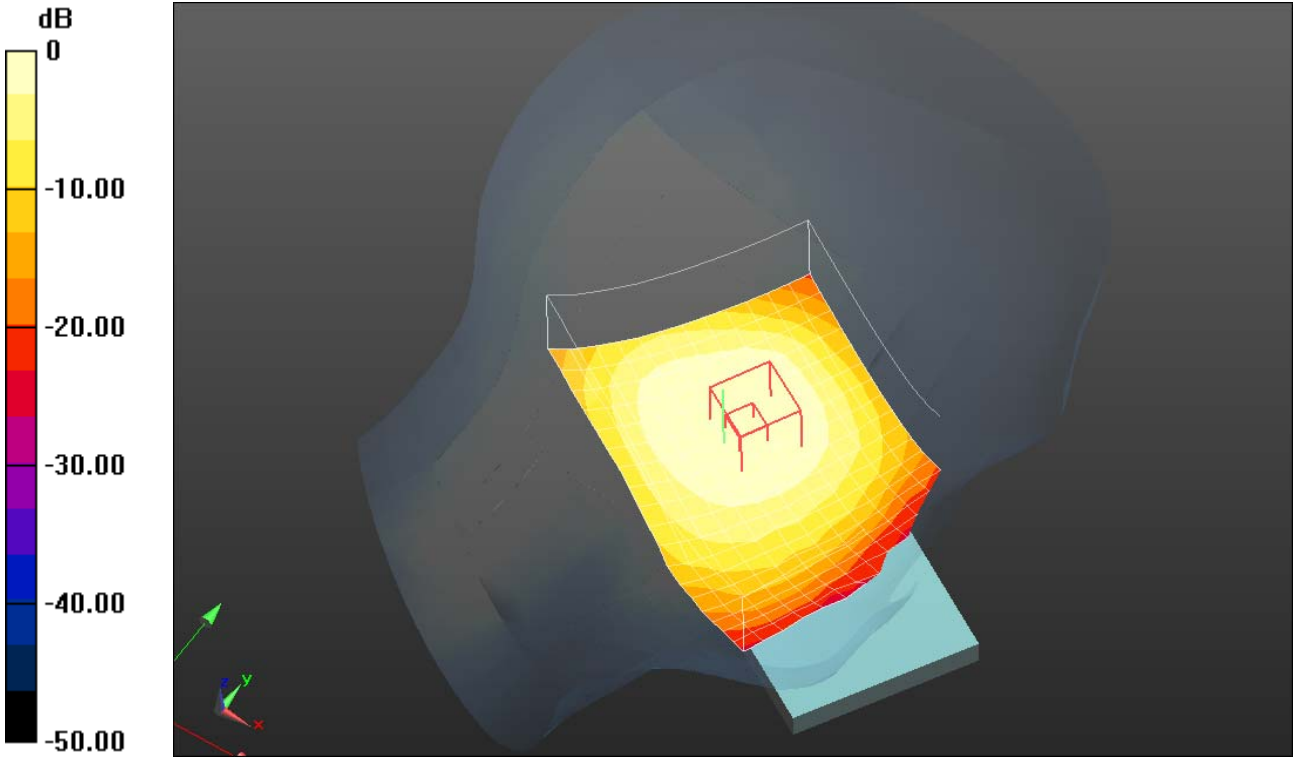
Author Data
Andrew Becker

Dates of Test
**Aug 21 – Nov 23, 2012
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**RTS-6012-1211-32
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FCC ID:
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IC ID
2503A-RFA90LW



0 dB = 0.440mW/g = -7.13 dB mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Date/Time: 11/13/2012 2:38:49 PM

Test Laboratory: RIM Testing Services

Volume_Scan_LeftHandside_LTE_13_mid_chan_QPSK_RB_1_Offset_0
_amb_temp_23.4_liq_temp_22.8C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F9758

Communication System: LTE 700_Band 13; Frequency: 782 MHz

Medium parameters used (interpolated): $f = 782$ MHz; $\sigma = 0.907$ mho/m; $\epsilon_r = 40.229$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 32.0$
- 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/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 19.816 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.5550

SAR(1 g) = 0.375 mW/g; SAR(10 g) = 0.257 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.435 mW/g

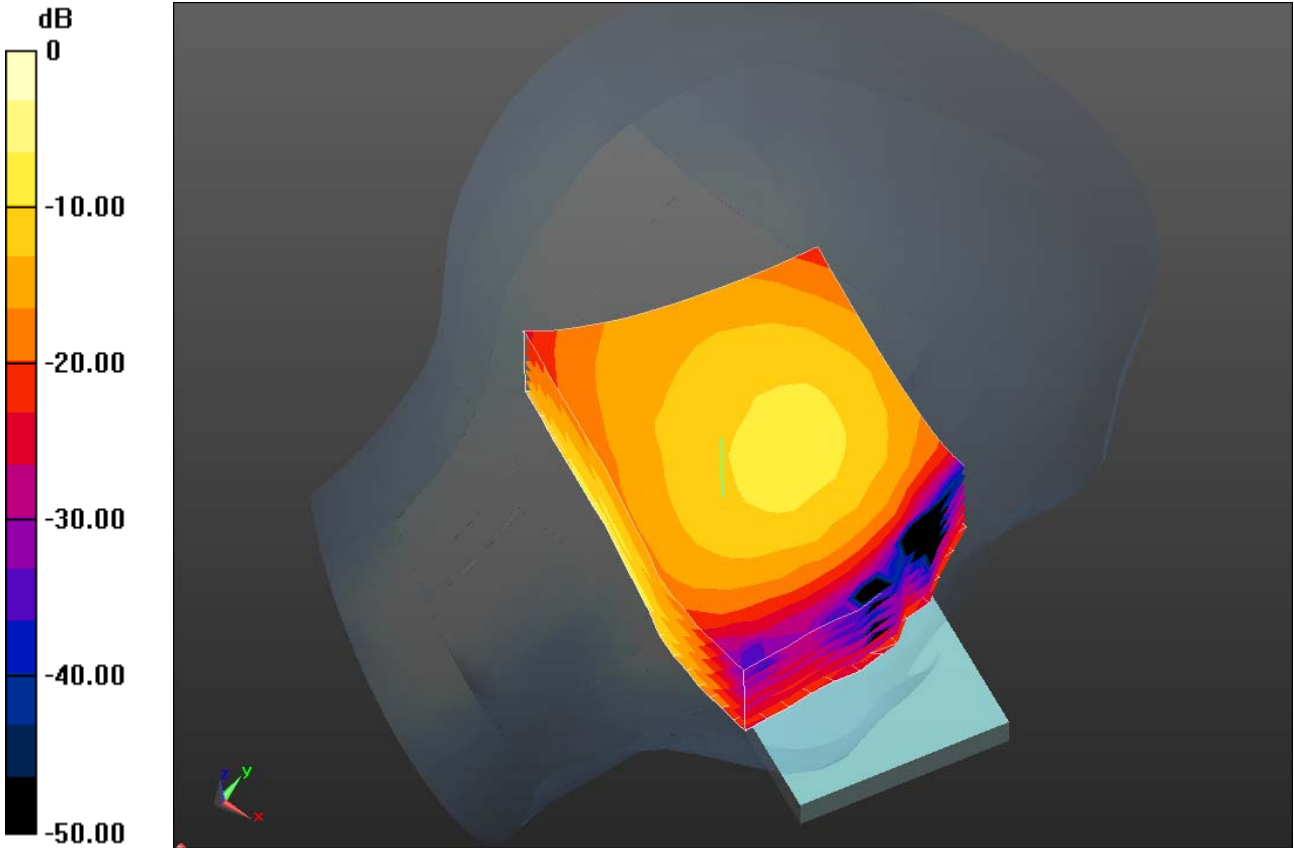
Author Data
Andrew Becker

Dates of Test
**Aug 21 – Nov 23, 2012
Jan. 07-11, 2013**


Test Report No
**RTS-6012-1211-32
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FCC ID:
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0 dB = 0.440mW/g = -7.13 dB mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Date/Time: 10/31/2012 4:09:43 PM

Test Laboratory: RIM Testing Services

**Volume_Scan_LeftHandSide_CDMA850_mid_chan_amb_temp_23.3C_li
q_temp_22.7C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F96D2

Communication System: CDMA 850; Frequency: 836.52 MHz
Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.883$ mho/m; $\epsilon_r = 40.786$;
 $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASYS5 (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), $z = 32.0$
- 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/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm


Reference Value = 10.181 V/m; Power Drift = -0.05 dB

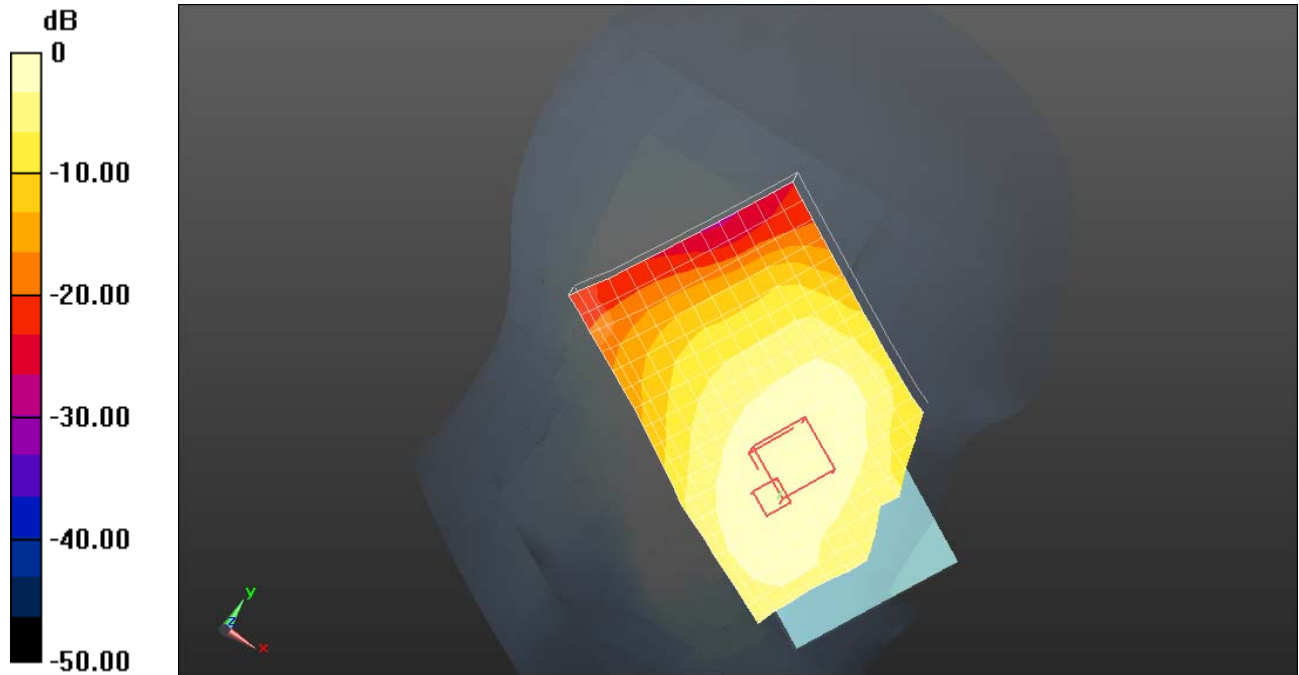
Peak SAR (extrapolated) = 1.3380

SAR(1 g) = 0.992 mW/g; SAR(10 g) = 0.729 mW/g


[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.106 mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3
		IC ID 2503A-RFA90LW	



0 dB = 1.110mW/g = 0.91 dB mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Date/Time: 10/31/2012 4:09:43 PM

Test Laboratory: RIM Testing Services

**Volume_Scan_LeftHandSide_CDMA850_mid_chan_amb_temp_23.3C_li
q_temp_22.7C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F96D2

Communication System: CDMA 850; Frequency: 836.52 MHz
Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.883$ mho/m; $\epsilon_r = 40.786$;
 $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASYS5 (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), $z = 32.0$
- 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/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 10.181 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.3380

SAR(1 g) = 0.992 mW/g; SAR(10 g) = 0.729 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.106 mW/g

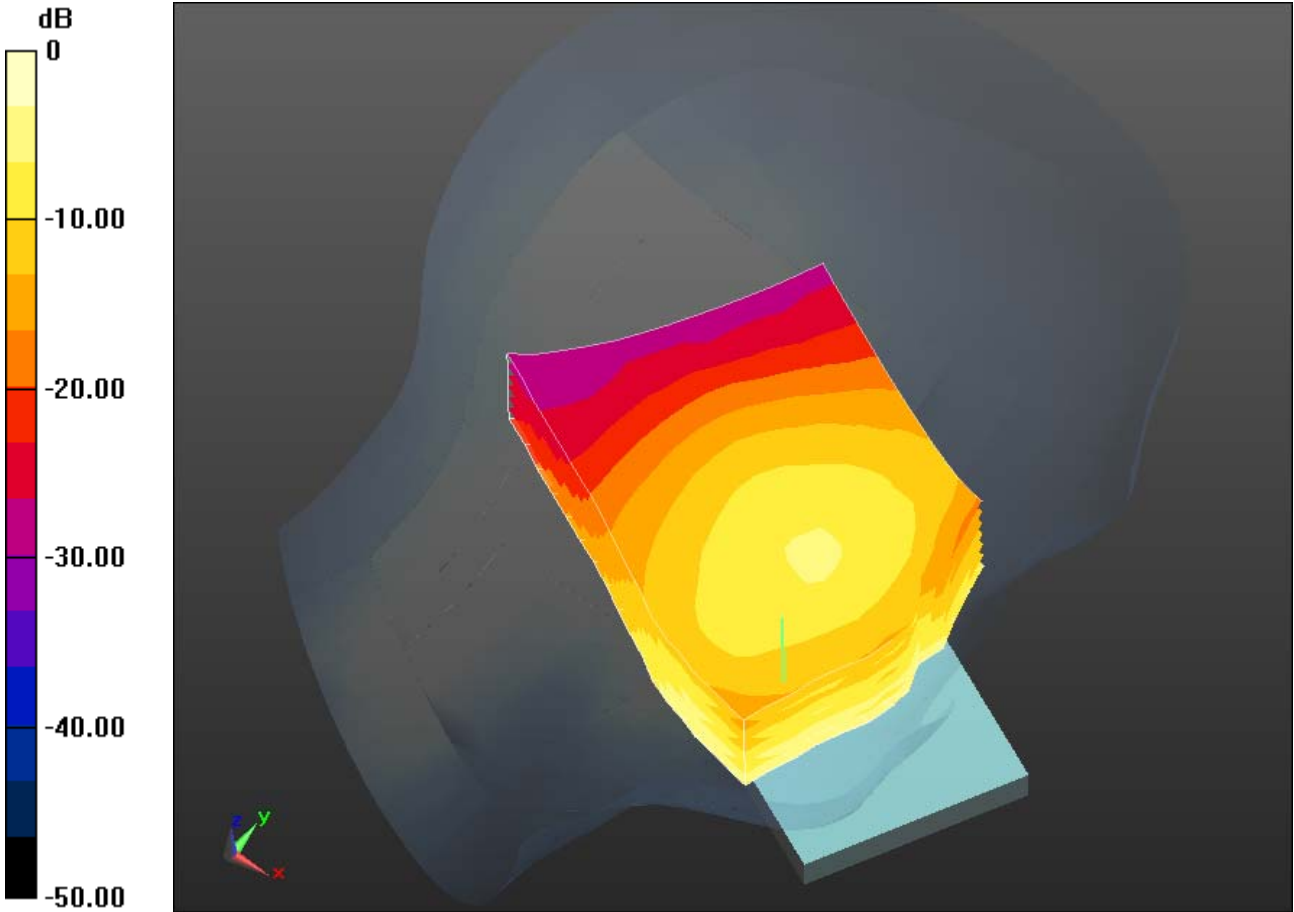
Author Data
Andrew Becker

Dates of Test
**Aug 21 – Nov 23, 2012
Jan. 07-11, 2013**


Test Report No
**RTS-6012-1211-32
Rev 3**

FCC ID:
L6ARFA90LW

IC ID
2503A-RFA90LW



0 dB = 1.110mW/g = 0.91 dB mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Date/Time: 11/1/2012 3:41:03 PM

Test Laboratory: RIM Testing Services

Volume_Scan_LeftHandSide_CDMA1900_mid_chan_amb_temp_23.9C
_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F96D2

Communication System: CDMA 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.373$ mho/m; $\epsilon_r = 39.835$; $\rho = 1000$ kg/m³

Phantom section: Left 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), $z = 32.0$
- 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/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 9.073 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.8340

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.699 mW/g

Maximum value of SAR (measured) = 1.361 mW/g

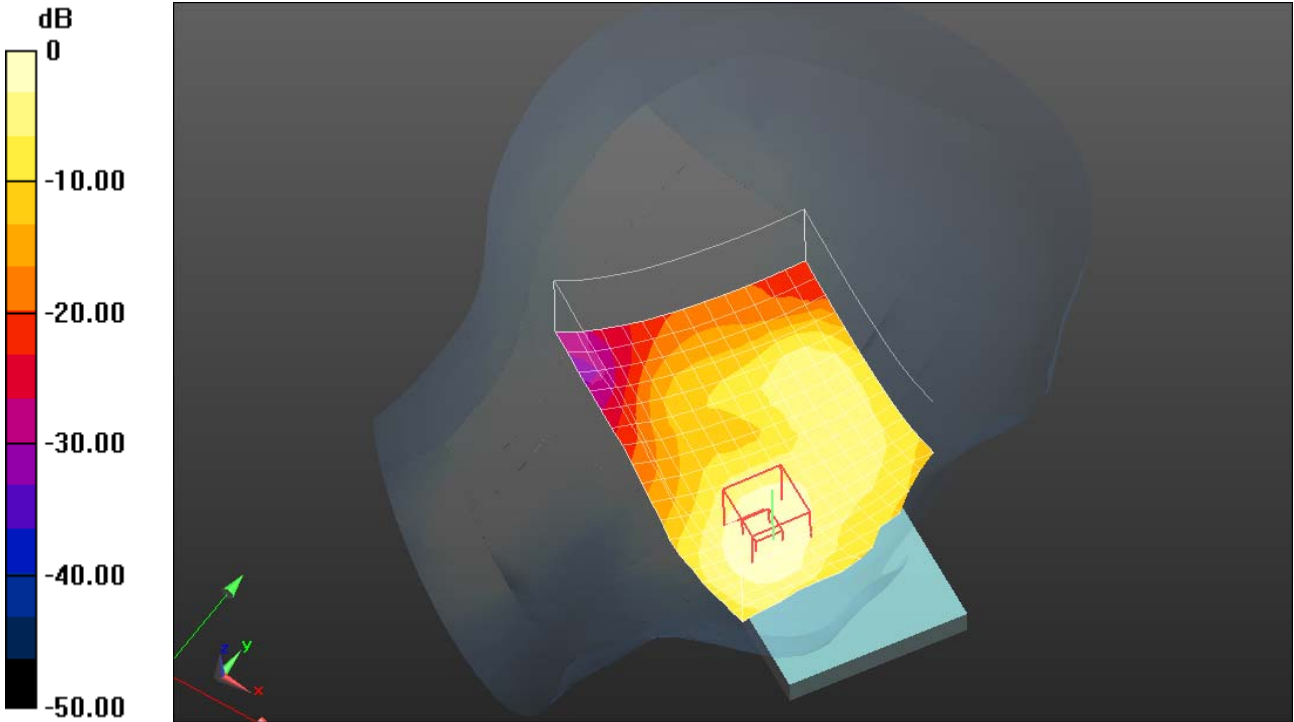
Author Data
Andrew Becker

Dates of Test
**Aug 21 – Nov 23, 2012
Jan. 07-11, 2013**


Test Report No
**RTS-6012-1211-32
Rev 3**

FCC ID:
L6ARFA90LW

IC ID
2503A-RFA90LW



0 dB = 1.360mW/g = 2.67 dB mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Date/Time: 11/1/2012 3:41:03 PM

Test Laboratory: RIM Testing Services

Volume_Scan_LeftHandSide_CDMA1900_mid_chan_amb_temp_23.9C
_liq_temp_22.6C

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F96D2

Communication System: CDMA 1900; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.373$ mho/m; $\epsilon_r = 39.835$; $\rho = 1000$ kg/m³

Phantom section: Left 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), $z = 32.0$
- 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/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 9.073 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.8340

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.699 mW/g

Maximum value of SAR (measured) = 1.361 mW/g

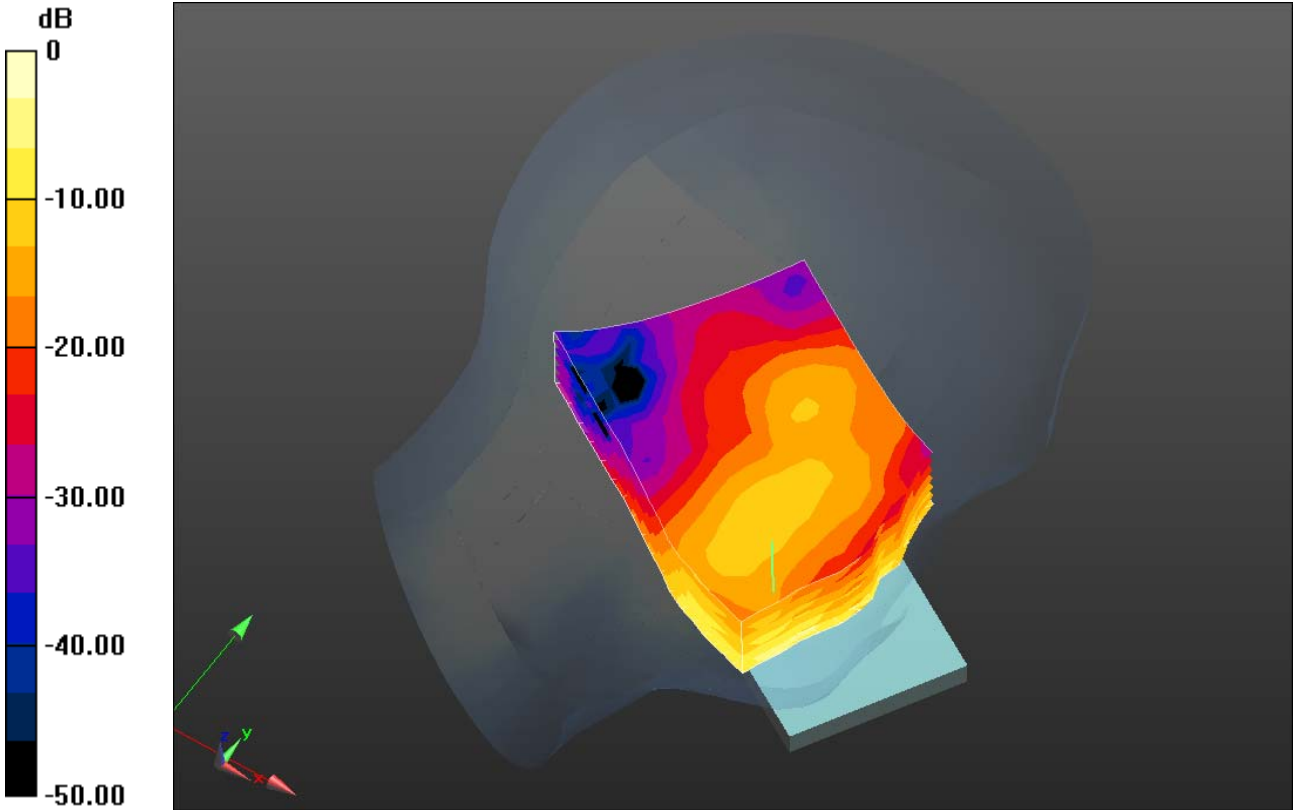
Author Data
Andrew Becker

Dates of Test
**Aug 21 – Nov 23, 2012
Jan. 07-11, 2013**


Test Report No
**RTS-6012-1211-32
Rev 3**

FCC ID:
L6ARFA90LW

IC ID
2503A-RFA90LW



0 dB = 1.360mW/g = 2.67 dB mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Date/Time: 11/5/2012 12:23:28 PM

Test Laboratory: RIM Testing Services

**Volume_Scan_LeftHandSide_802.11b_high_chan_amb_temp_24.4C_liq
_temp_22.5C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.825$ mho/m; $\epsilon_r = 38.149$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASYS5 (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), $z = 32.0$
- 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/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm


Reference Value = 3.066 V/m; Power Drift = 0.27 dB

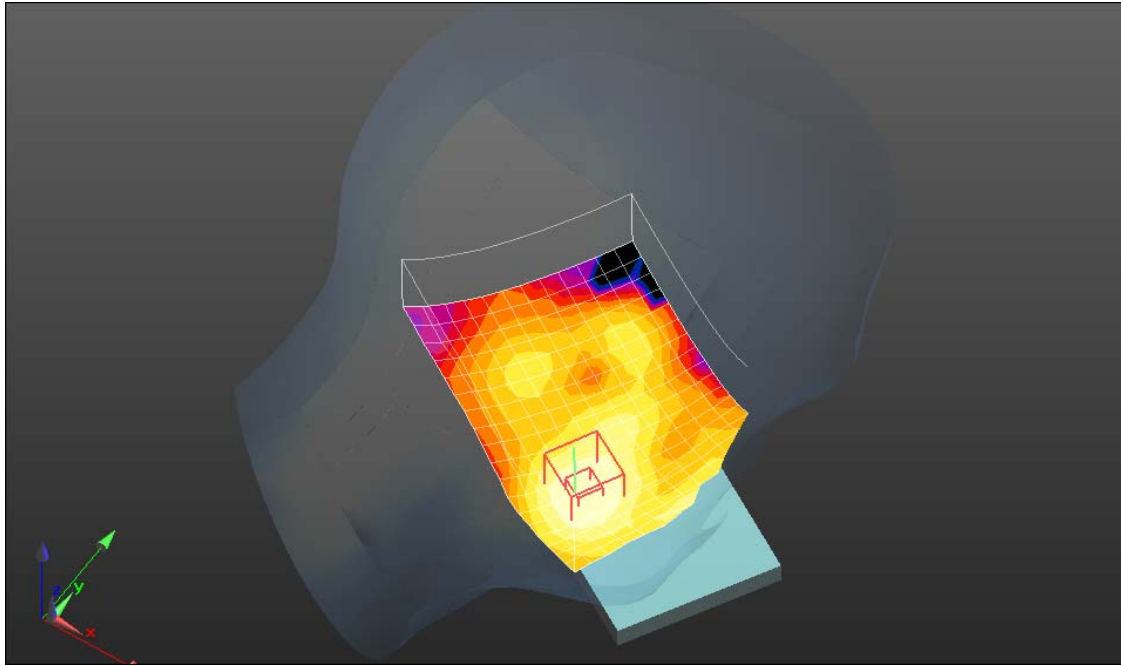
Peak SAR (extrapolated) = 0.3370

SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.103 mW/g


[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.242 mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3
		IC ID 2503A-RFA90LW	



0 dB = 0.240mW/g = -12.40 dB mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Date/Time: 11/5/2012 12:23:28 PM

Test Laboratory: RIM Testing Services

**Volume_Scan_LeftHandSide_802.11b_high_chan_amb_temp_24.4C_liq
_temp_22.5C**

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

Communication System: 802.11 b (2450); Frequency: 2462 MHz

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.825$ mho/m; $\epsilon_r = 38.149$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASYS5 (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), $z = 32.0$
- 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/Touch position - Volume Scan/Volume Scan

(13x19x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 3.066 V/m; Power Drift = 0.27 dB

Peak SAR (extrapolated) = 0.3370

SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.103 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.242 mW/g

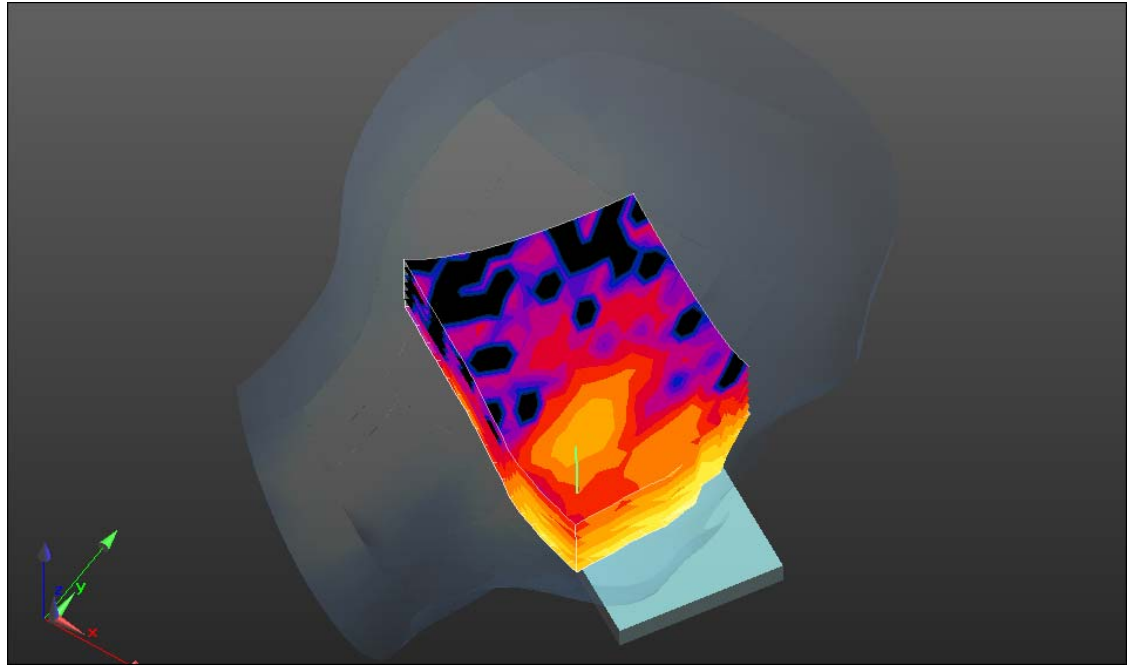
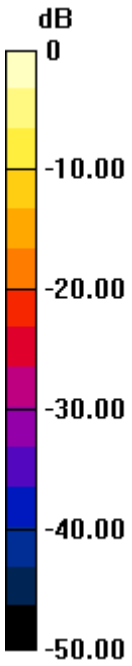
Author Data
Andrew Becker

Dates of Test
**Aug 21 – Nov 23, 2012
Jan. 07-11, 2013**


Test Report No
**RTS-6012-1211-32
Rev 3**

FCC ID:
L6ARFA90LW

IC ID
2503A-RFA90LW



0 dB = 0.240mW/g = -12.40 dB mW/g

	Document Appendix B2 for the BlackBerry® Smartphone Model RFA91LW SAR Report			Page 42(53)
	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Multi-Band Average

SAR_Left_Head_Touch_CDMA850_LTE13_802.11b_Singlelayer

Multi-Band Configurations:

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/13/2012 2:38:49 PM
Test Laboratory: RIM Testing Services
File Name:

[Volume_Scan_LeftHandside_LTE_13_mid_chan_QPSK_RB_1_Offset_0_amb_temp_23.4_liq_temp_22.8C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F9758

Communication System: LTE 700_Band 13; Frequency: 782 MHz; Duty Cycle: 1:1;
PMF: 1

Medium: HSL750 Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 40.229$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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


- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 10/31/2012 4:09:43 PM
Test Laboratory: RIM Testing Services
File Name:

[Volume_Scan_LeftHandSide_CDMA850_mid_chan_amb_temp_23.3C_liq_temp_22.7C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F96D2

	Document Appendix B2 for the BlackBerry® Smartphone Model RFA91LW SAR Report			Page 43(53)
	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL835 Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.883 \text{ mho/m}$; $\epsilon_r = 40.786$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/5/2012 12:23:28 PM
Test Laboratory: RIM Testing Services
File Name:

[Volume Scan LeftHandSide 802.11b high chan amb temp 24.4C liq temp 22.5C.da 52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.825 \text{ mho/m}$; $\epsilon_r = 38.149$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

Multi Band Result:

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.858 mW/g
Maximum value of SAR (interpolated) = 1.691 mW/g

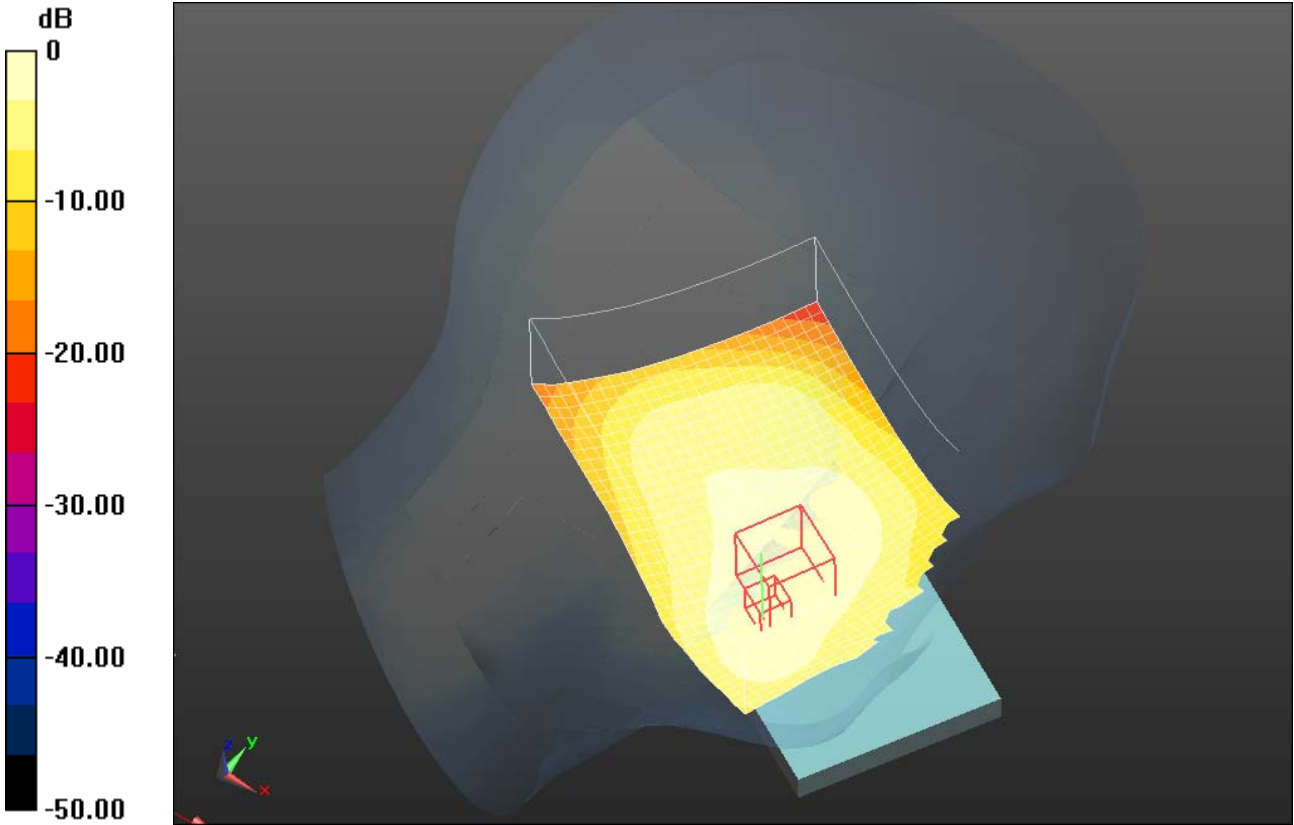
Author Data
Andrew Becker

Dates of Test
**Aug 21 – Nov 23, 2012
Jan. 07-11, 2013**


Test Report No
**RTS-6012-1211-32
Rev 3**

FCC ID:
L6ARFA90LW

IC ID
2503A-RFA90LW



0 dB = 1.690mW/g = 4.56 dB mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Multi-Band Average

SAR_Left_Head_Touch_CDMA850_LTE13_802.11b_Multilayer

Multi-Band Configurations:

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/13/2012 2:38:49 PM

Test Laboratory: RIM Testing Services

File Name:

[Volume Scan LeftHandside LTE 13 mid chan QPSK RB 1 Offset 0 amb temp 23.4 liq temp 22.8C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F9758

Communication System: LTE 700_Band 13; Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 40.229$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 10/31/2012 4:09:43 PM


Test Laboratory: RIM Testing Services

File Name:

[Volume Scan LeftHandSide CDMA850 mid chan amb temp 23.3C liq temp 22.7C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F96D2

Communication System: CDMA 850; Frequency: 836.52 MHz; Duty Cycle: 1:1; PMF: 1

	Document Appendix B2 for the BlackBerry® Smartphone Model RFA91LW SAR Report			Page 46(53)
	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Medium: HSL835 Medium parameters used (interpolated): $f = 836.52$ MHz; $\sigma = 0.883$ mho/m; $\epsilon_r = 40.786$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: ES3DV3 - SN3225; ConvF(6.06, 6.06, 6.06); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/5/2012 12:23:28 PM
Test Laboratory: RIM Testing Services
File Name:

[Volume Scan LeftHandSide 802.11b high_chan_amb_temp_24.4C_liq_temp_22.5C.da 52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.825$ mho/m; $\epsilon_r = 38.149$; $\rho = 1000$ kg/m³
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

Multi Band Result:

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.858 mW/g
Maximum value of SAR (interpolated) = 1.691 mW/g

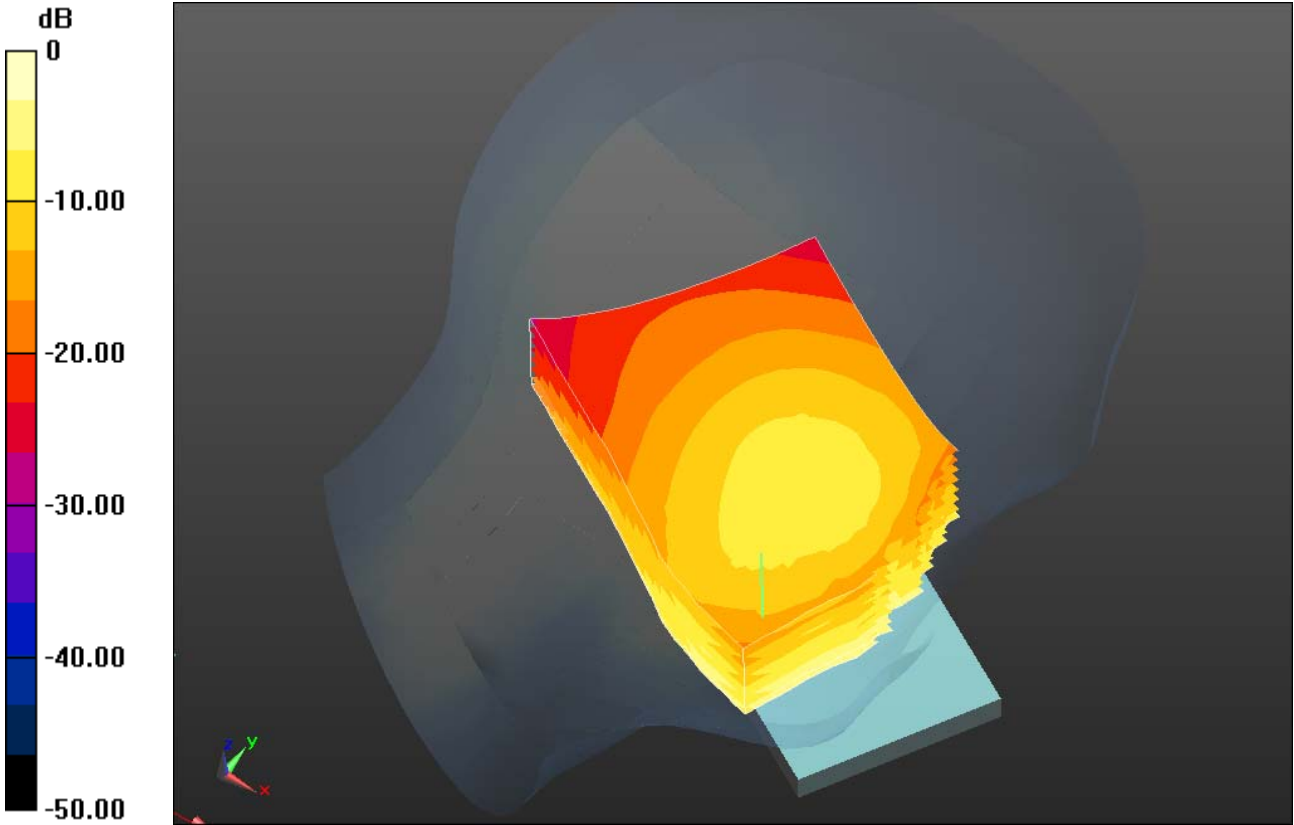
Author Data
Andrew Becker

Dates of Test
**Aug 21 – Nov 23, 2012
Jan. 07-11, 2013**


Test Report No
**RTS-6012-1211-32
Rev 3**

FCC ID:
L6ARFA90LW

IC ID
2503A-RFA90LW



0 dB = 1.690mW/g = 4.56 dB mW/g

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	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Multi-Band Average SAR_Left

Head_Touch_CDMA1900_LTE13_802.11b

Multi-Band Configurations:

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/13/2012 2:38:49 PM

Test Laboratory: RIM Testing Services

File Name:

[Volume Scan LeftHandside LTE 13 mid chan QPSK RB 1 Offset 0 amb temp 23.4 liq temp 22.8C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F9758

Communication System: LTE 700_Band 13; Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 40.229$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/1/2012 3:41:03 PM


Test Laboratory: RIM Testing Services

File Name:

[Volume Scan LeftHandSide CDMA1900 mid chan amb temp 23.9C liq temp 22.6 C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F96D2

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

	Document Appendix B2 for the BlackBerry® Smartphone Model RFA91LW SAR Report			Page 49(53)
	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.373$ mho/m; $\epsilon_r = 39.835$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/5/2012 12:23:28 PM

Test Laboratory: RIM Testing Services

File Name:

[Volume_Scan_LeftHandSide_802.11b_high_chan_amb_temp_24.4C_liq_temp_22.5C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.825$ mho/m; $\epsilon_r = 38.149$; $\rho = 1000$ kg/m³

Phantom section: Left Section


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

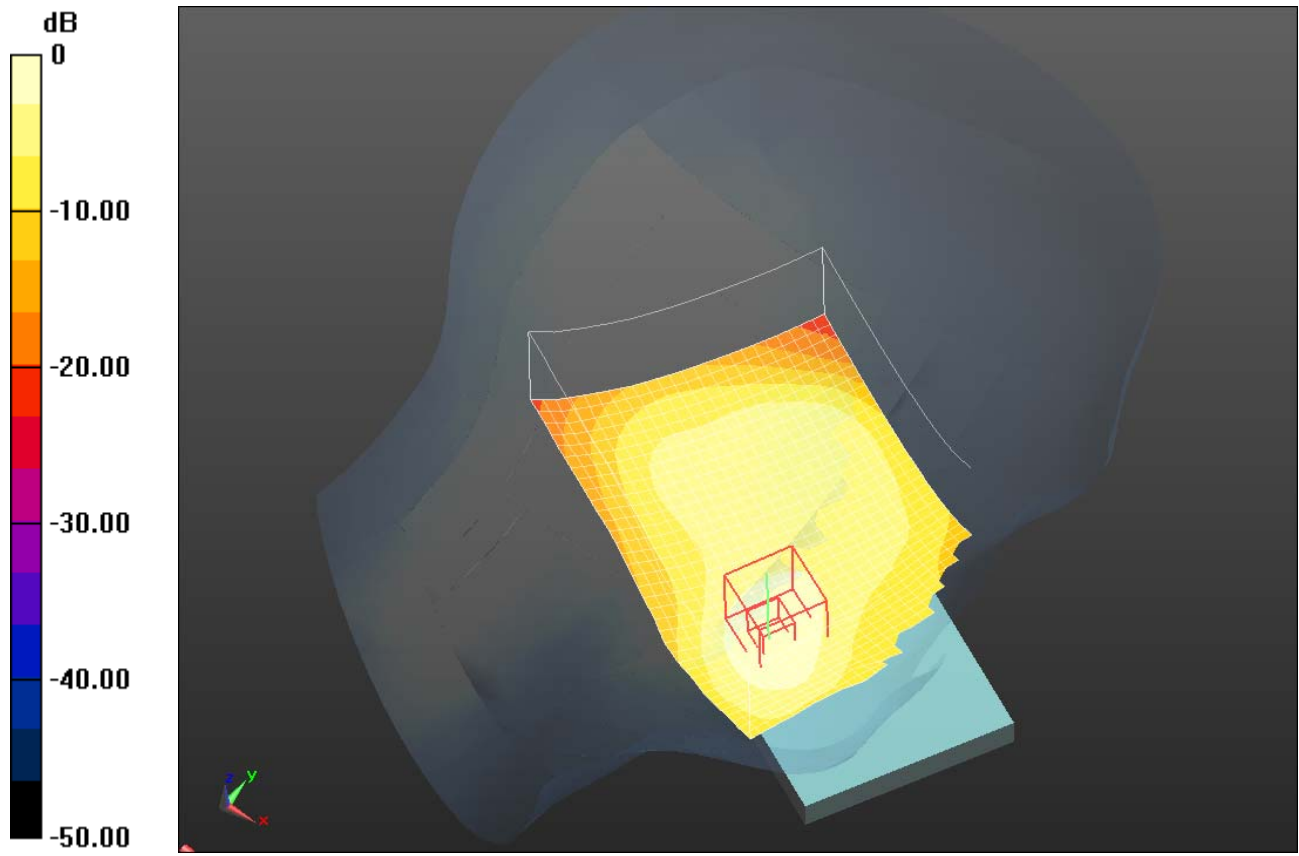
- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

Multi Band Result:


SAR(1 g) = 1.42 mW/g; SAR(10 g) = 0.837 mW/g

Maximum value of SAR (interpolated) = 2.232 mW/g

	Document Appendix B2 for the BlackBerry® Smartphone Model RFA91LW SAR Report		Page 50(53)
	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3
		IC ID 2503A-RFA90LW	



0 dB = 2.230mW/g = 6.97 dB mW/g

	Document Appendix B2 for the BlackBerry® Smartphone Model RFA91LW SAR Report			Page 51(53)
	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Multi-Band Average SAR_Left

Head_Touch_CDMA1900_LTE13_802.11b

Multi-Band Configurations:

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/13/2012 2:38:49 PM

Test Laboratory: RIM Testing Services

File Name:

[Volume Scan LeftHandside LTE 13 mid chan QPSK RB 1 Offset 0 amb temp 23.4 liq temp 22.8C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F9758

Communication System: LTE 700_Band 13; Frequency: 782 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL750 Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 40.229$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

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

- Probe: ES3DV3 - SN3225; ConvF(6.42, 6.42, 6.42); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY52, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/1/2012 3:41:03 PM


Test Laboratory: RIM Testing Services

File Name:

[Volume Scan LeftHandSide CDMA1900 mid chan amb temp 23.9C liq temp 22.6 C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332F96D2

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

	Document Appendix B2 for the BlackBerry® Smartphone Model RFA91LW SAR Report			Page 52(53)
	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.373$ mho/m; $\epsilon_r = 39.835$; $\rho = 1000$ kg/m³

Phantom section: Left Section

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

- Probe: ES3DV3 - SN3225; ConvF(5.23, 5.23, 5.23); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

DASY Configuration for Configuration/Touch position - Volume Scan/Volume Scan:

Date/Time: 11/5/2012 12:23:28 PM

Test Laboratory: RIM Testing Services

File Name:

[Volume_Scan_LeftHandSide_802.11b_high_chan_amb_temp_24.4C_liq_temp_22.5C.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample; Serial: 332BEDBD

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.825$ mho/m; $\epsilon_r = 38.149$; $\rho = 1000$ kg/m³

Phantom section: Left Section


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

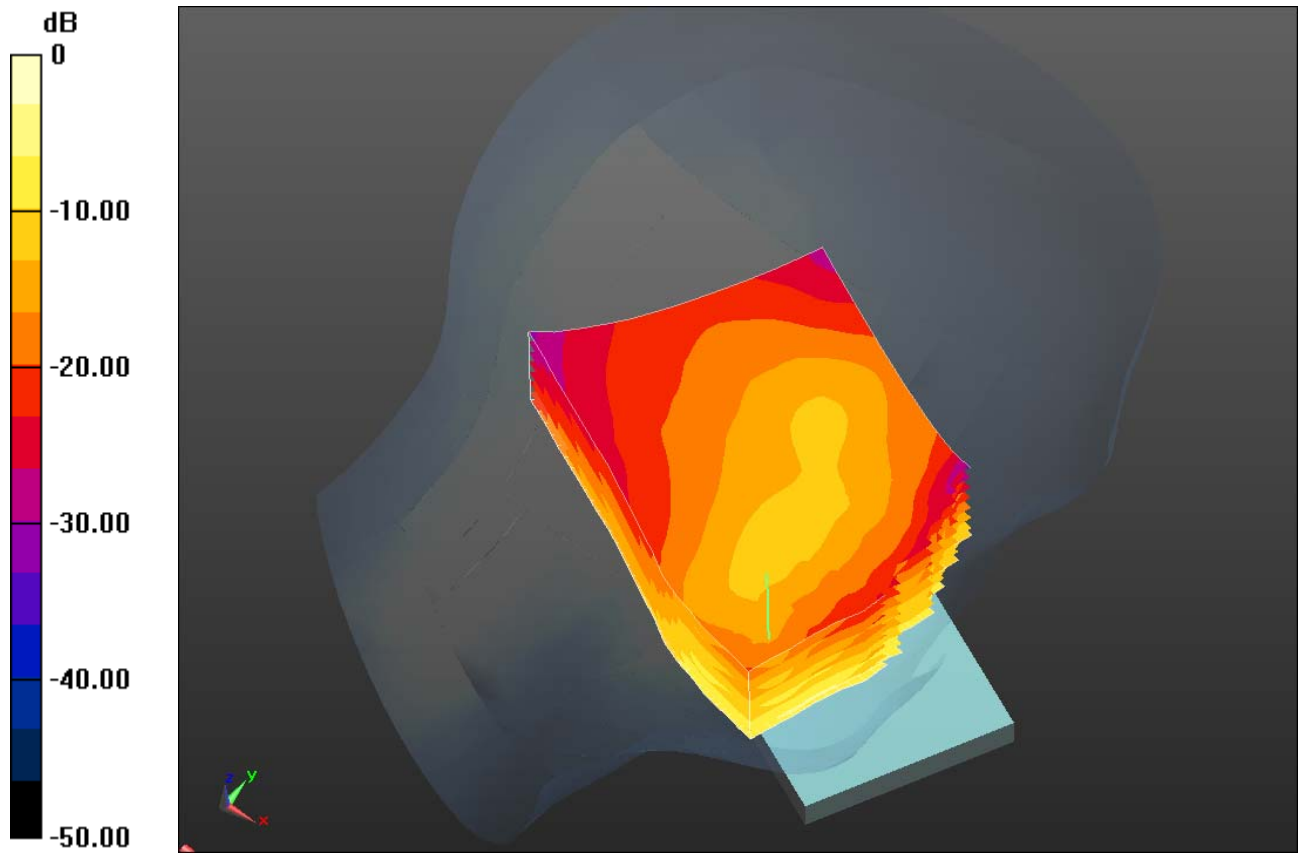
- Probe: ES3DV3 - SN3225; ConvF(4.5, 4.5, 4.5); Calibrated: 1/11/2012
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/13/2012
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASYS2, Version 52.8 (0)

Multi Band Result:

SAR(1 g) = 1.42 mW/g; SAR(10 g) = 0.837 mW/g

Maximum value of SAR (interpolated) = 2.232 mW/g

	Document Appendix B2 for the BlackBerry® Smartphone Model RFA91LW SAR Report		Page 53(53)	
	Author Data Andrew Becker	Dates of Test Aug 21 – Nov 23, 2012 Jan. 07-11, 2013	Test Report No RTS-6012-1211-32 Rev 3	FCC ID: L6ARFA90LW



0 dB = 2.230mW/g = 6.97 dB mW/g