

	Document Appendix for the BlackBerry® Smartphone Model RCN71UW SAR Report		Page 1(66)
Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 18/08/2009 6:51:24 AM

Test Laboratory: RTS

File Name: [LeftHandSide_EDGE850_low_chan_amb_temp_23.0_liq_temp_22.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 824.2 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.863 \text{ mho/m}$; $\epsilon_r = 41.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.13 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

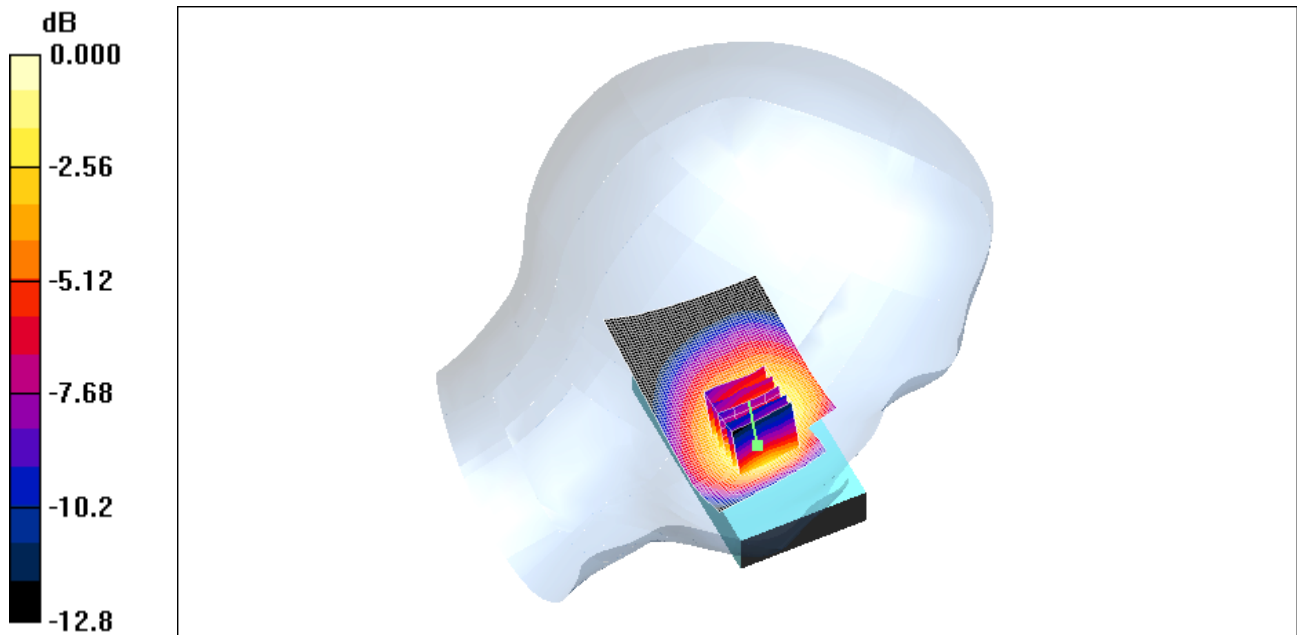
Reference Value = 12.1 V/m; Power Drift = -0.142 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 1 mW/g; SAR(10 g) = 0.695 mW/g

Maximum value of SAR (measured) = 1.08 mW/g

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0 dB = 1.08mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARC70UW

Date/Time: 18/08/2009 7:18:31 AM

Test Laboratory: RTS

File Name: [LeftHandSide_EDGE850_mid_chan_amb_temp_23.0_liq_temp_22.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.876 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.21 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.6 V/m ; Power Drift = -0.077 dB

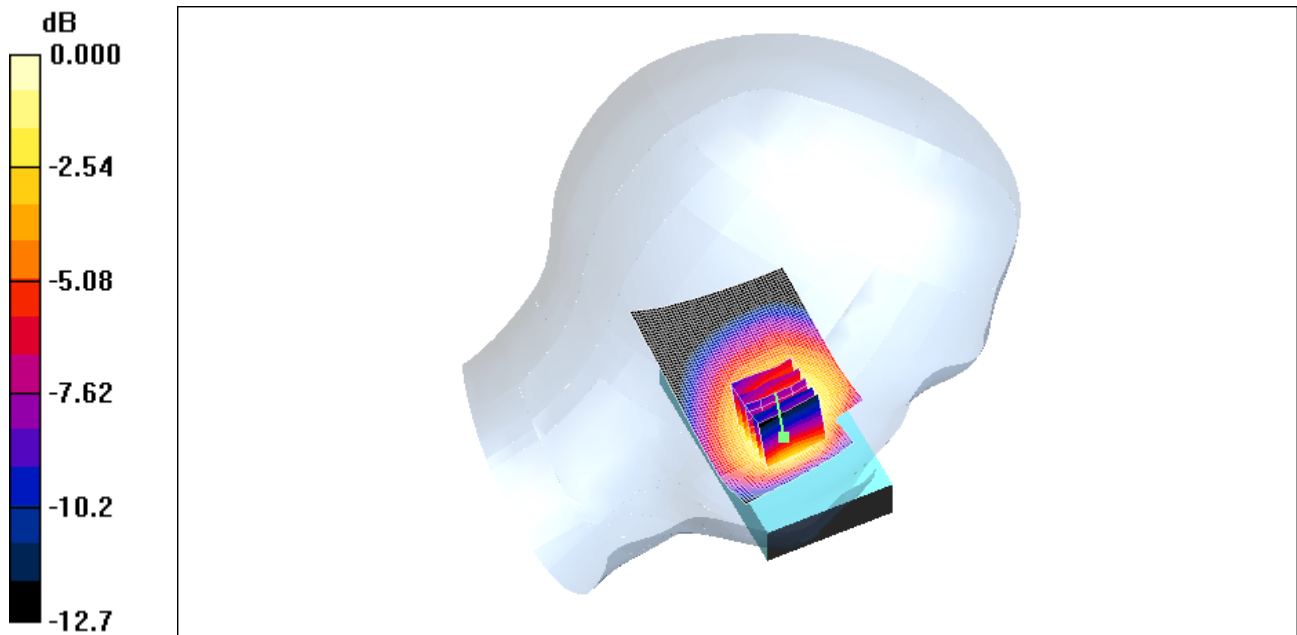
Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 1.07 mW/g ; SAR(10 g) = 0.747 mW/g

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

Maximum value of SAR (measured) = 1.15 mW/g

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0 dB = 1.15mW/g

	Document Appendix for the BlackBerry® Smartphone Model RCN71UW SAR Report		Page 6(66)
Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 18/08/2009 7:49:37 AM

Test Laboratory: RTS

File Name: [LeftHandSide_EDGE850_high_chan_amb_temp_22.9_liq_temp_22.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.34 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.3 V/m ; Power Drift = -0.095 dB

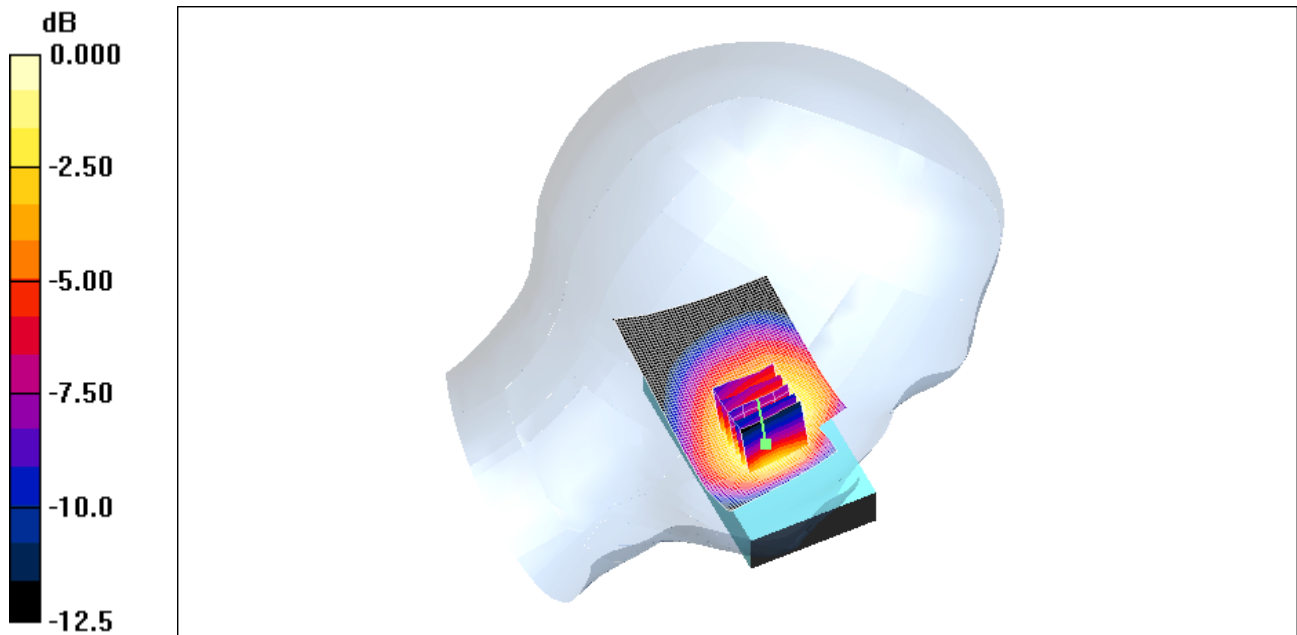
Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 1.2 mW/g ; SAR(10 g) = 0.840 mW/g

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

Maximum value of SAR (measured) = 1.30 mW/g

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0 dB = 1.30mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 18/08/2009 8:24:41 AM

Test Laboratory: RTS

File Name: [LeftHandSide_GSM850_high_chan_amb_temp_23.0_liq_temp_22.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Tilt position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.11 mW/g

Tilt position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.9 V/m ; Power Drift = -0.044 dB

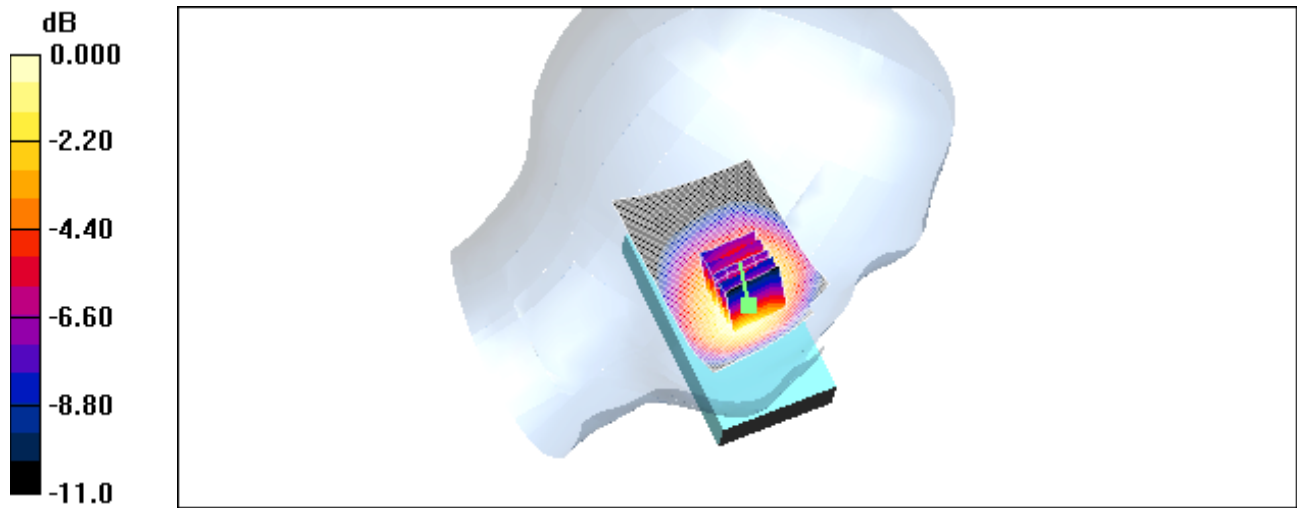
Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 1.01 mW/g ; SAR(10 g) = 0.716 mW/g

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

Maximum value of SAR (measured) = 1.08 mW/g

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0 dB = 1.08mW/g

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Date/Time: 18/08/2009 8:07:19 AM

Test Laboratory: RTS

File Name:

[LeftHandSide Tilt EDGE850 high chan amb temp 22.9 liq temp 22.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Tilt position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.669 mW/g

Tilt position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.5 V/m ; Power Drift = -0.018 dB

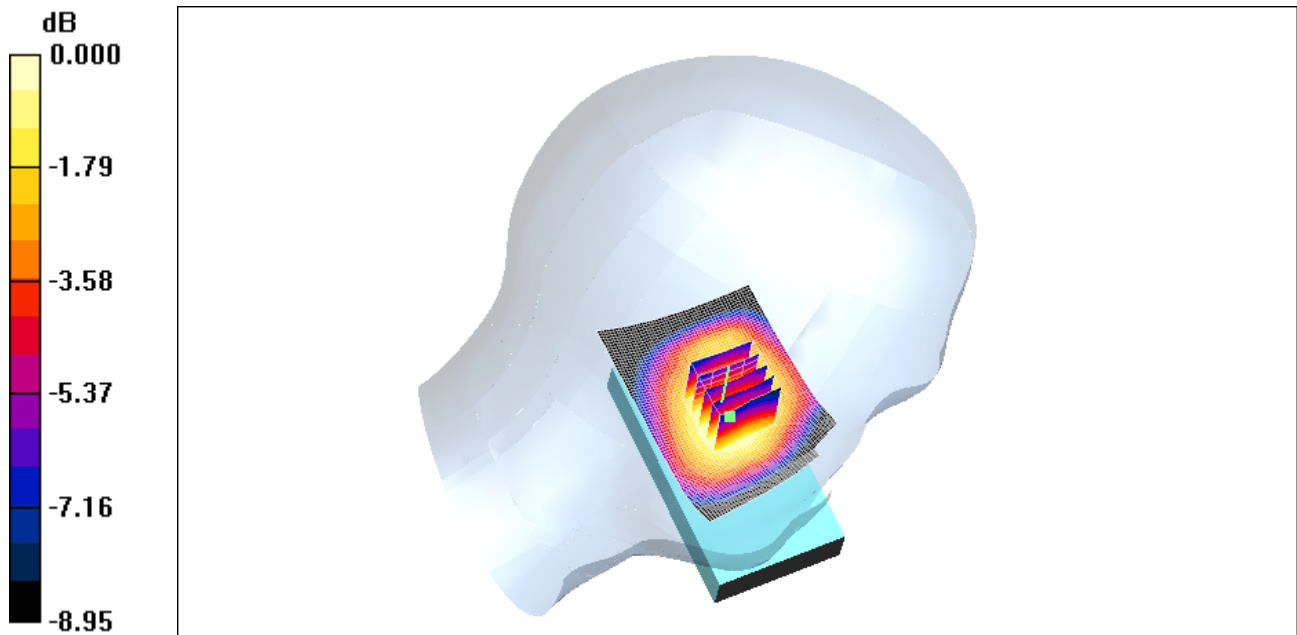
Peak SAR (extrapolated) = 0.791 W/kg

SAR(1 g) = 0.650 mW/g ; SAR(10 g) = 0.491 mW/g

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

Maximum value of SAR (measured) = 0.684 mW/g

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0 dB = 0.684mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 18/08/2009 3:16:56 AM

Test Laboratory: RTS

File Name: [RightHandSide_EDGE850_low_chan_amb_temp_23.2_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31
Program Name: Compliance Testing: (Right-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 824.2 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.863 \text{ mho/m}$; $\epsilon_r = 41.8$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

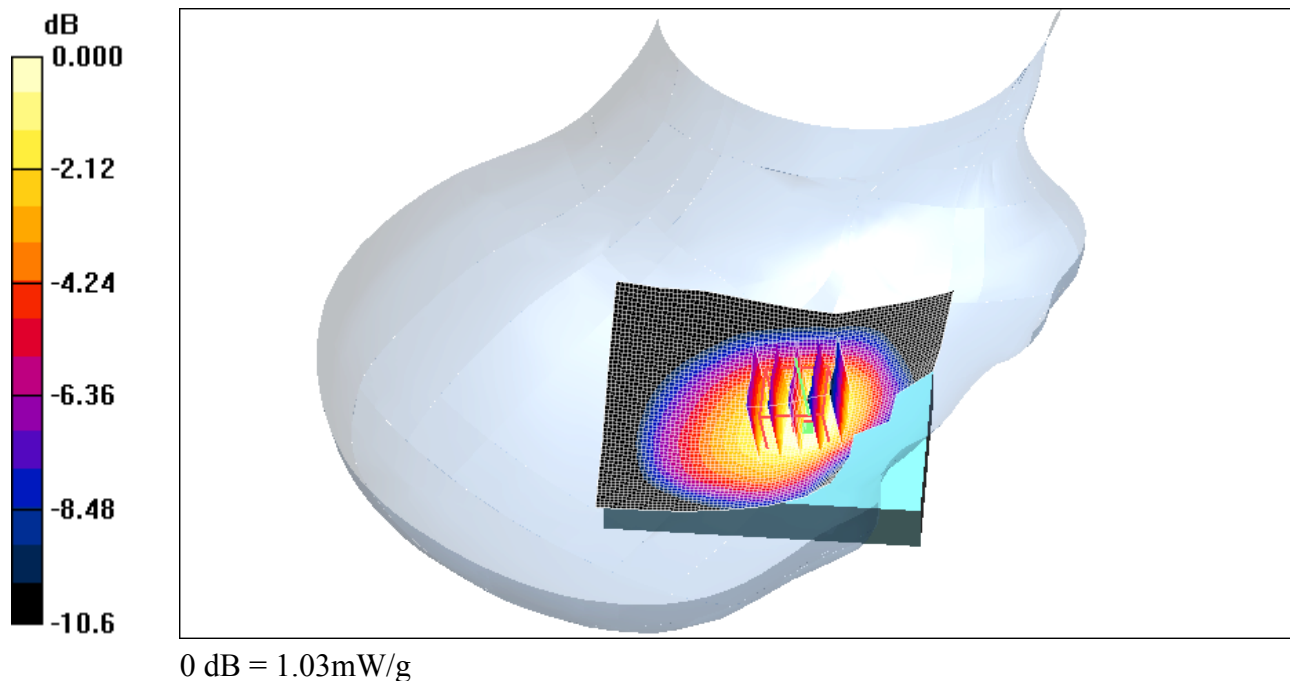
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.07 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 10.7 V/m; Power Drift = 0.088 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.975 mW/g; SAR(10 g) = 0.705 mW/g
Maximum value of SAR (measured) = 1.03 mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 18/08/2009 3:34:19 AM

Test Laboratory: RTS

File Name: [RightHandSide_EDGE850_mid_chan_amb_temp_23.3_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31
Program Name: Compliance Testing: (Right-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.876 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.17 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.1 V/m ; Power Drift = -0.023 dB

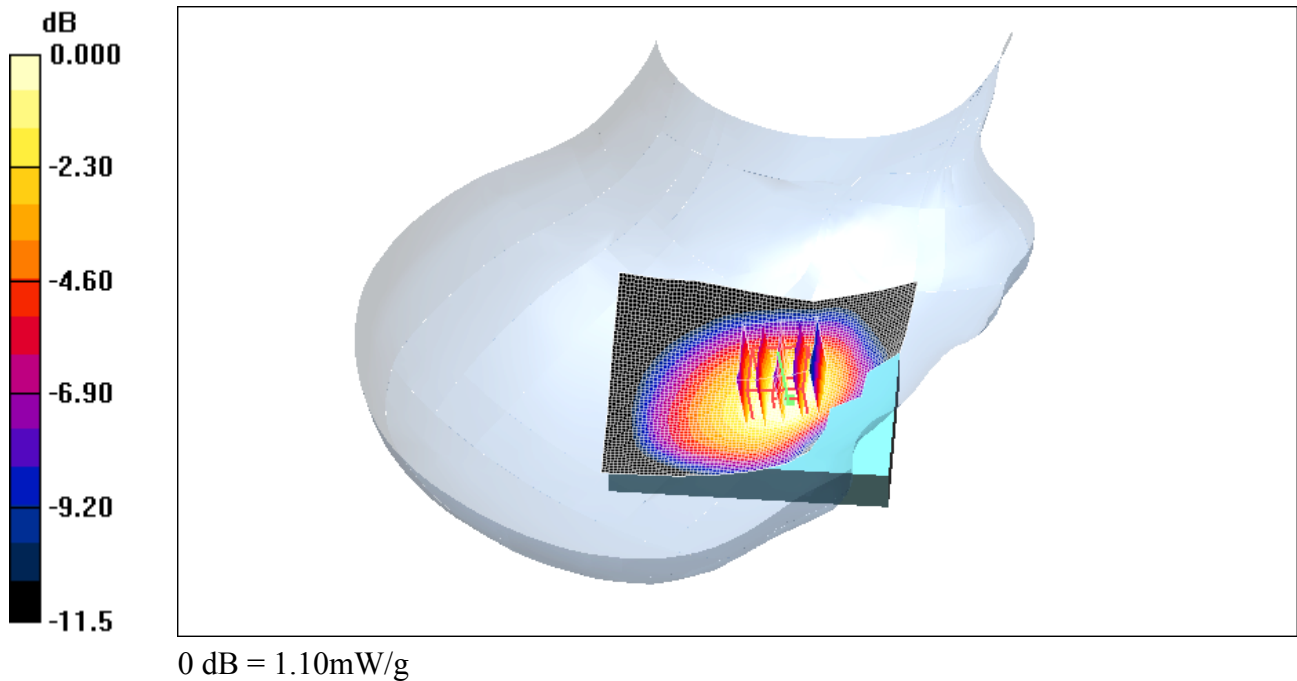
Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 1.04 mW/g ; SAR(10 g) = 0.754 mW/g

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

Maximum value of SAR (measured) = 1.10 mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 18/08/2009 3:52:36 AM

Test Laboratory: RTS

File Name: [RightHandSide_EDGE850_high_chan_amb_temp_23.3_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31
Program Name: Compliance Testing: (Right-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.34 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.7 V/m ; Power Drift = -0.036 dB

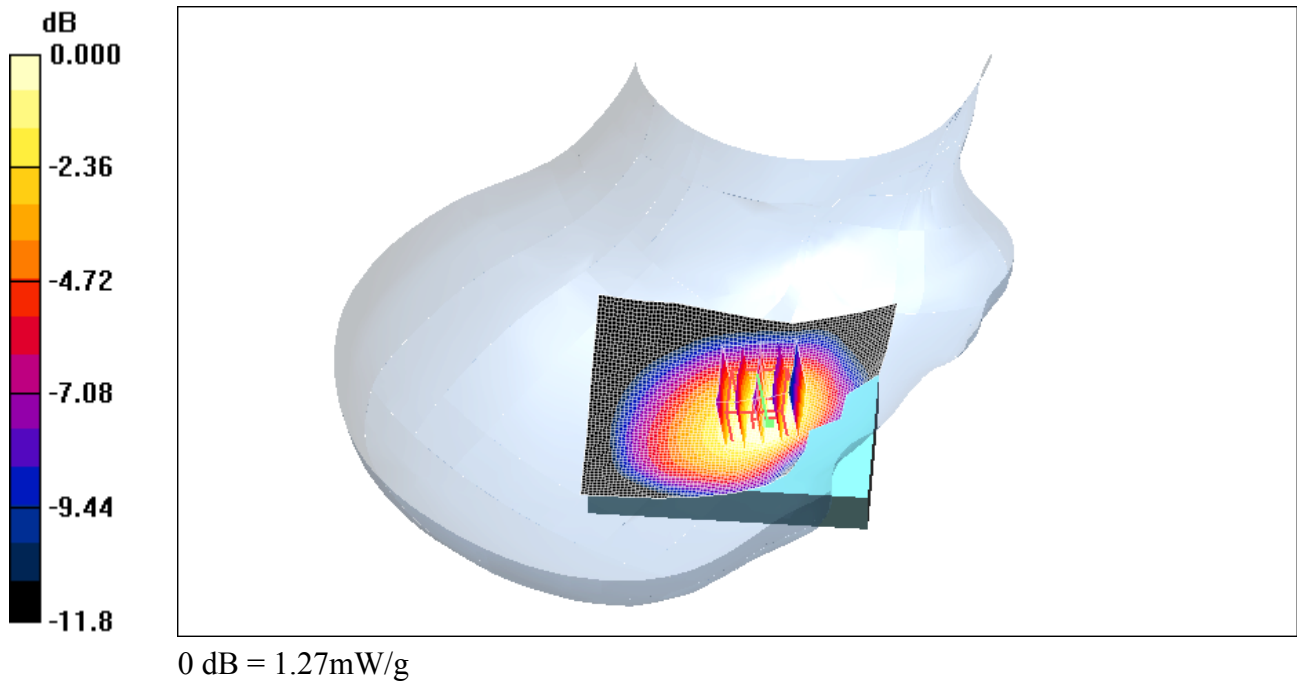
Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 1.19 mW/g ; SAR(10 g) = 0.860 mW/g

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

Maximum value of SAR (measured) = 1.27 mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 18/08/2009 4:30:11 AM

Test Laboratory: RTS

File Name: [RightHandSide_GSM850_high_chan_amb_temp_23.2_liq_temp_22.3C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31
Program Name: Compliance Testing: (Right-Hand Side)

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.17 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.7 V/m ; Power Drift = -0.193 dB

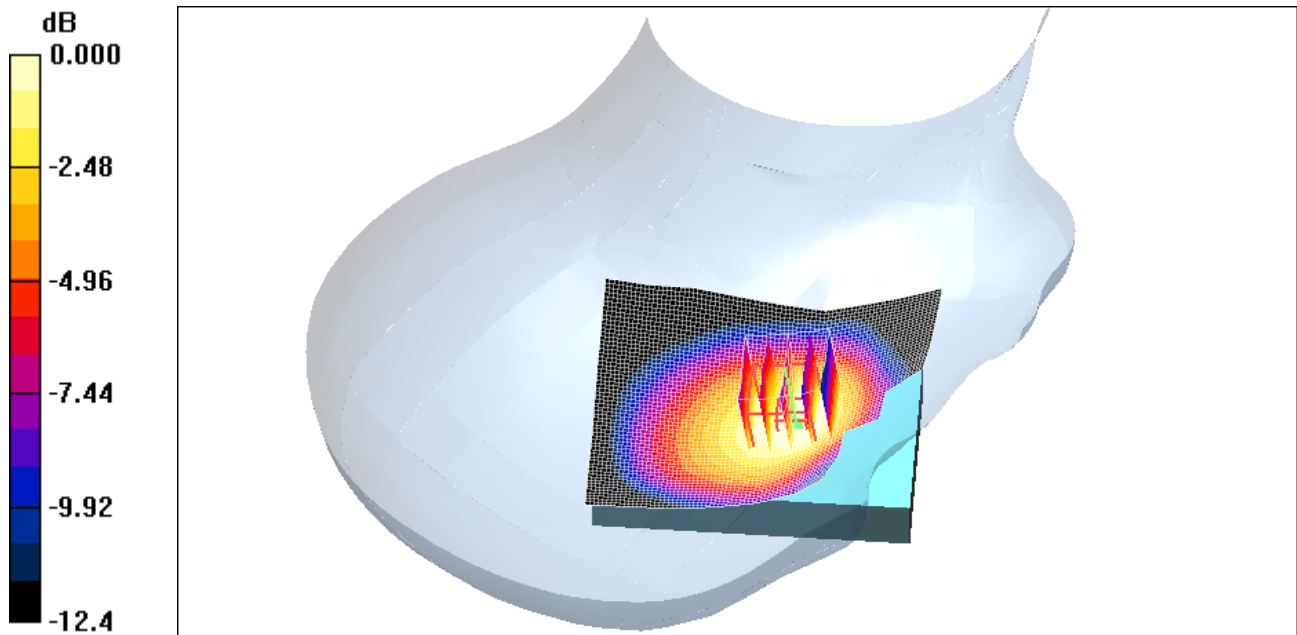
Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 1.01 mW/g ; SAR(10 g) = 0.717 mW/g

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

Maximum value of SAR (measured) = 1.08 mW/g

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0 dB = 1.08mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 18/08/2009 4:10:10 AM

Test Laboratory: RTS

File Name:

[RightHandSide Tilt EDGE850 high chan amb temp 23.2 liq temp 22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.887 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.06, 6.06, 6.06); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.612 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.6 V/m ; Power Drift = 0.028 dB

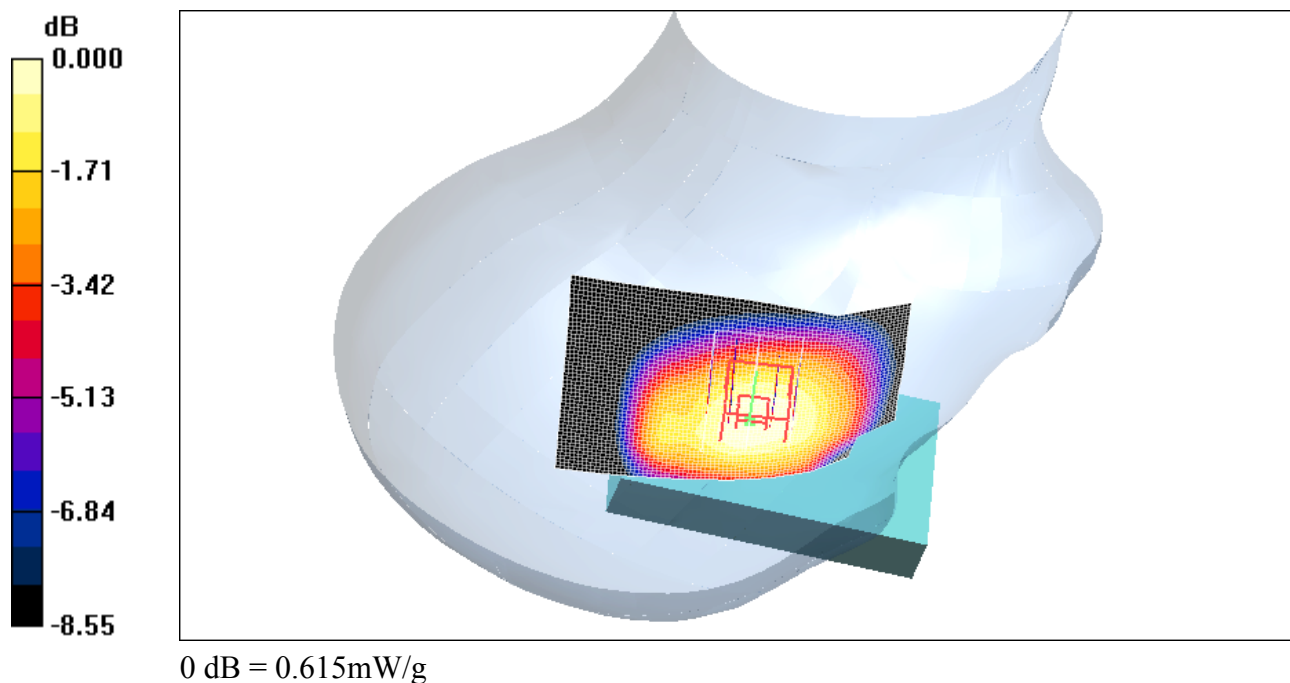
Peak SAR (extrapolated) = 0.706 W/kg

SAR(1 g) = 0.580 mW/g ; SAR(10 g) = 0.437 mW/g

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

Maximum value of SAR (measured) = 0.615 mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 13/07/2009 7:10:24 PM

Test Laboratory: RTS

File Name:

LeftHandSide UMTS Band IV low chan amb temp 22.6 liq temp 22.0C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1712.4 \text{ MHz}$; $\sigma = 1.28 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.18 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.2 V/m ; Power Drift = 0.060 dB

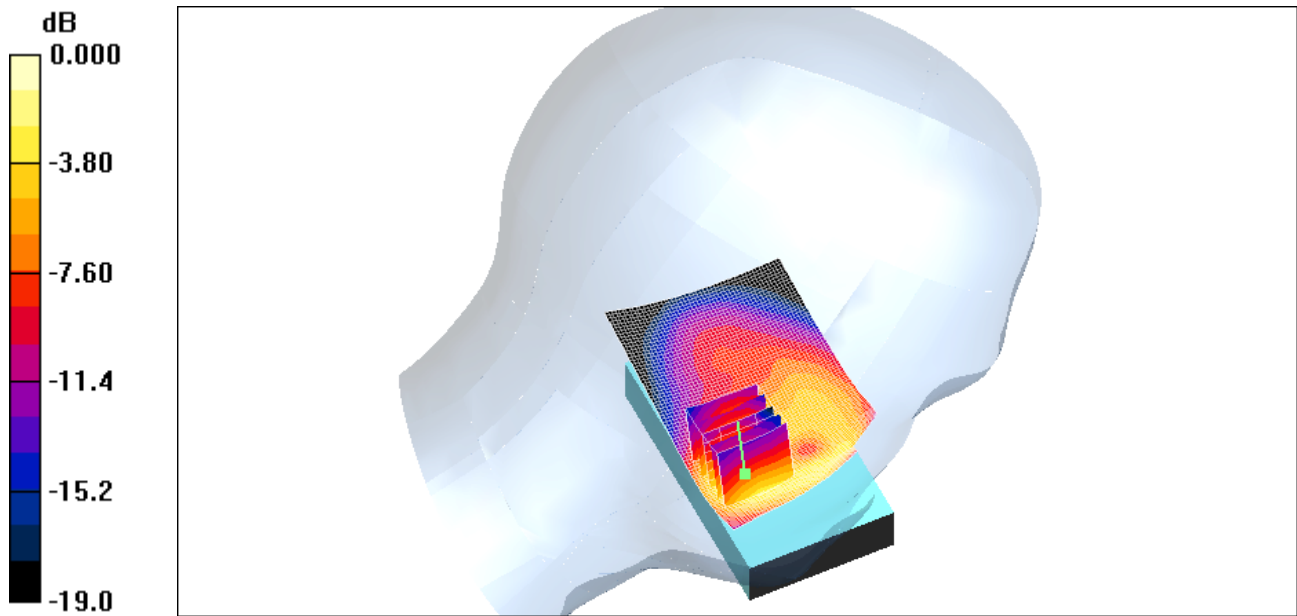
Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 1.09 mW/g ; SAR(10 g) = 0.627 mW/g

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

Maximum value of SAR (measured) = 1.20 mW/g

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0 dB = 1.20mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 13/07/2009 7:24:19 PM

Test Laboratory: RTS

File Name:

LeftHandSide UMTS Band IV mid chan amb temp 22.7 liq temp 22.0C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.6 \text{ MHz}$; $\sigma = 1.3 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.23 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.4 V/m ; Power Drift = -0.032 dB

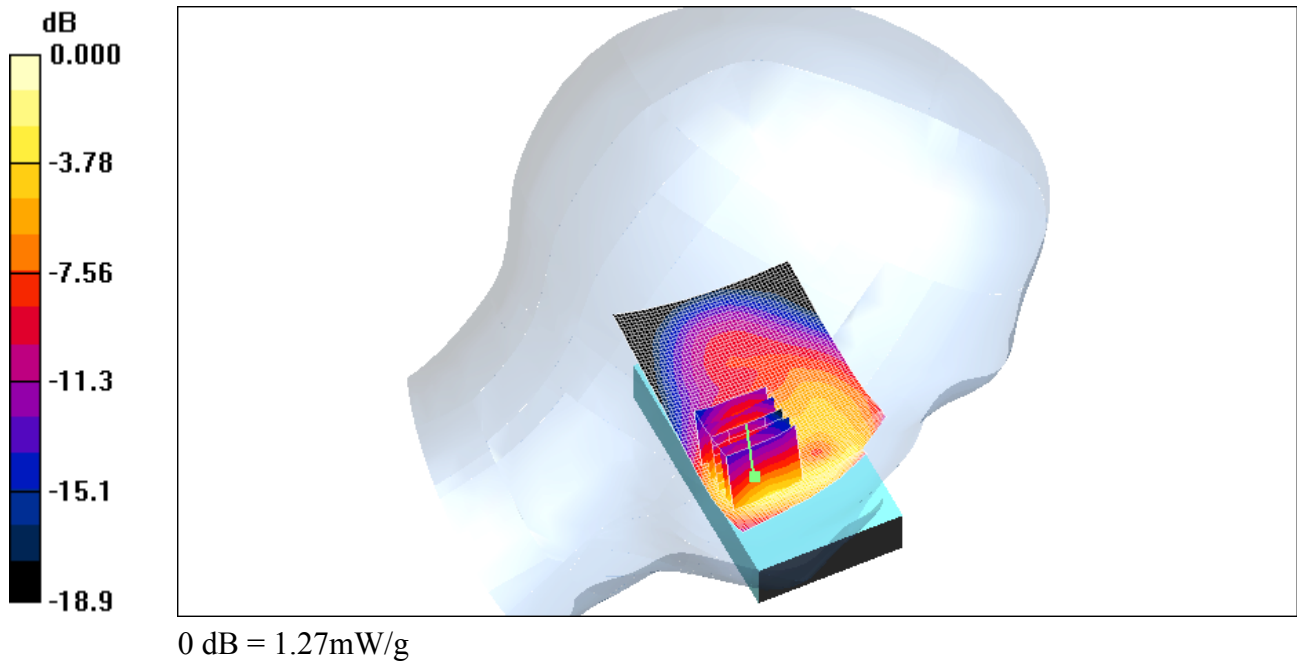
Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 1.13 mW/g ; SAR(10 g) = 0.651 mW/g

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

Maximum value of SAR (measured) = 1.27 mW/g

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Date/Time: 13/07/2009 7:39:05 PM

Test Laboratory: RTS

File Name:

LeftHandSide UMTS Band IV high chan amb temp 22.8 liq temp 22.1C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684

Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1752.6 \text{ MHz}$; $\sigma = 1.31 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.52 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.4 V/m ; Power Drift = 0.010 dB

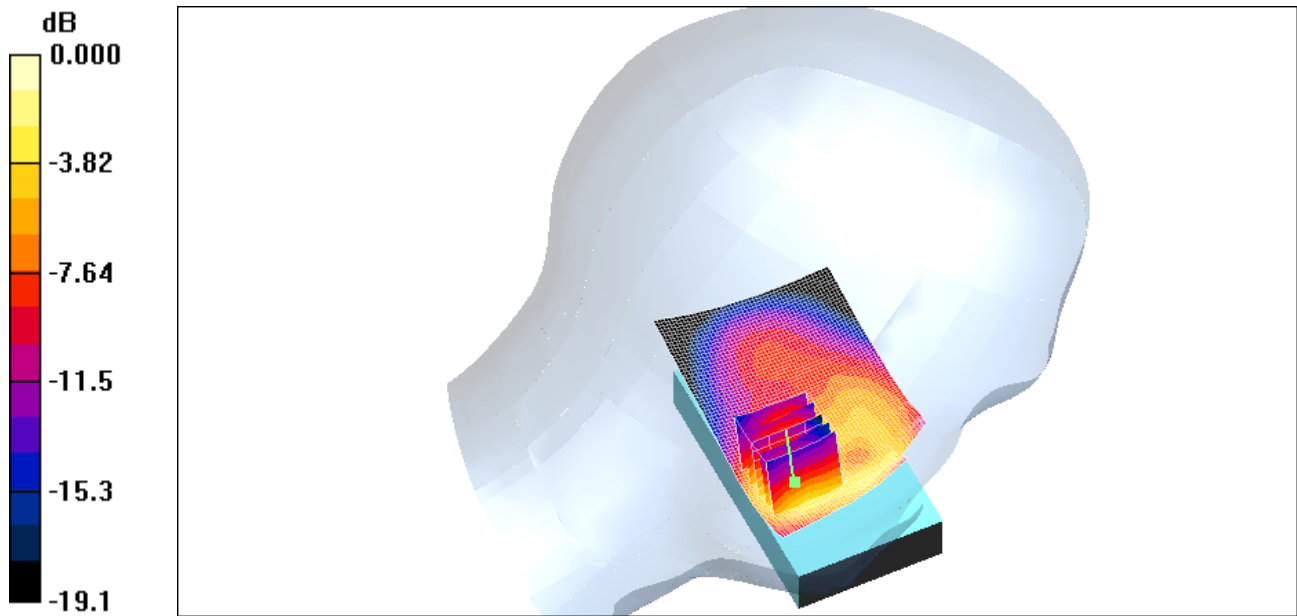
Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 1.39 mW/g ; SAR(10 g) = 0.793 mW/g

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

Maximum value of SAR (measured) = 1.55 mW/g

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0 dB = 1.55mW/g

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Date/Time: 13/07/2009 7:56:24 PM

Test Laboratory: RTS

File Name:

LeftHandSide Tilt UMTS band IV high chan amb temp 22.9 liq temp 22.3C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684
Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1752.6 \text{ MHz}$; $\sigma = 1.31 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Tilt position -/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.420 mW/g

Tilt position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.8 V/m ; Power Drift = -0.022 dB

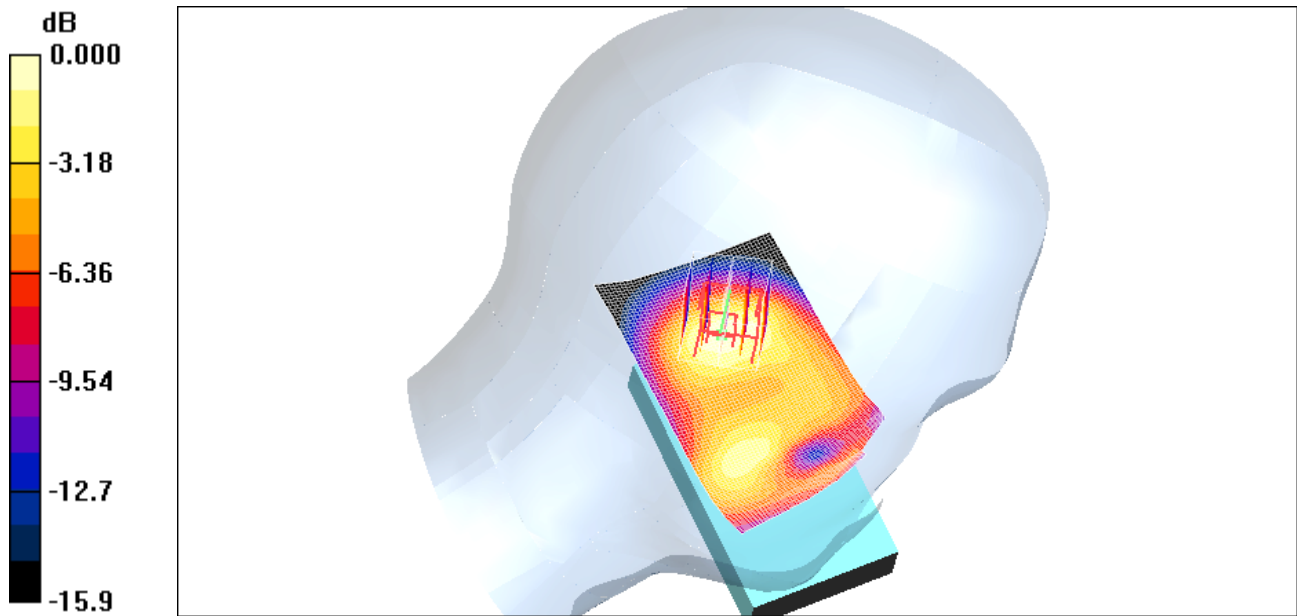
Peak SAR (extrapolated) = 0.530 W/kg

SAR(1 g) = 0.367 mW/g ; SAR(10 g) = 0.219 mW/g

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

Maximum value of SAR (measured) = 0.411 mW/g

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0 dB = 0.411mW/g

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Date/Time: 13/07/2009 8:21:22 PM

Test Laboratory: RTS

File Name:

RightHandSide UMTS Band IV low chan amb temp 22.8 liq temp 22.3C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1712.4 \text{ MHz}$; $\sigma = 1.28 \text{ mho/m}$; $\epsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.931 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.8 V/m ; Power Drift = -0.146 dB

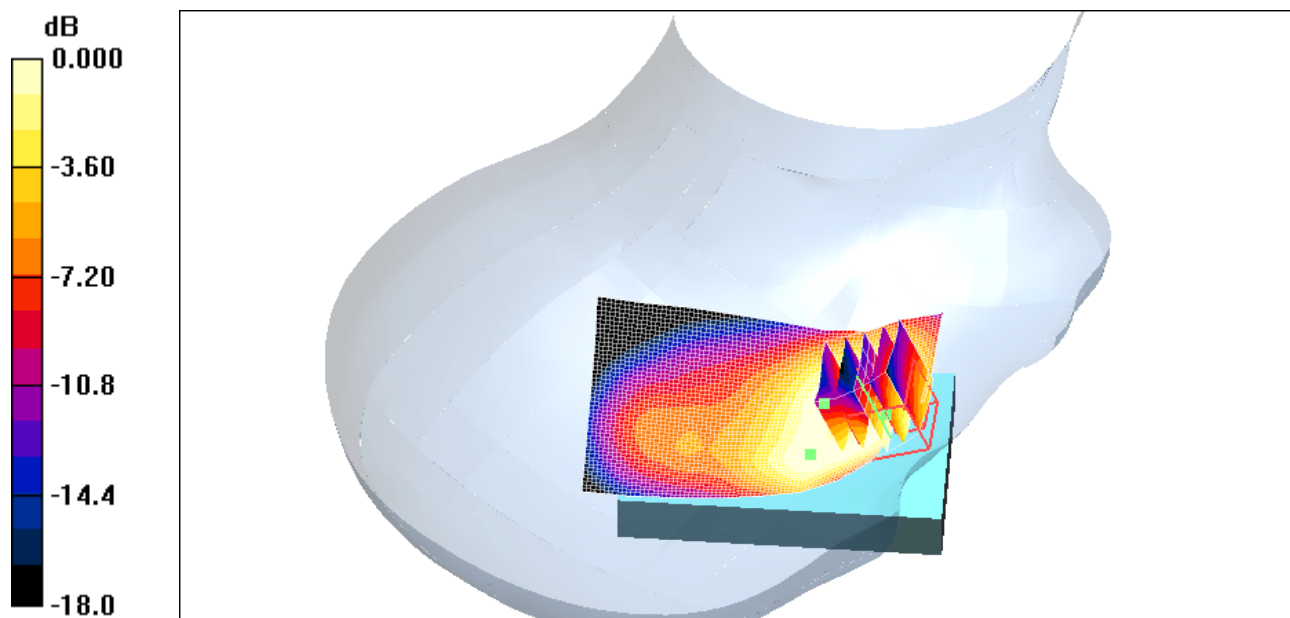
Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.754 mW/g ; SAR(10 g) = 0.372 mW/g

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

Maximum value of SAR (measured) = 0.869 mW/g

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0 dB = 0.869mW/g

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Date/Time: 13/07/2009 8:37:26 PM

Test Laboratory: RTS

File Name:

RightHandSide UMTS Band IV mid chan amb temp 22.8 liq temp 22.2C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1732.6 \text{ MHz}$; $\sigma = 1.3 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.924 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.5 V/m ; Power Drift = -0.081 dB

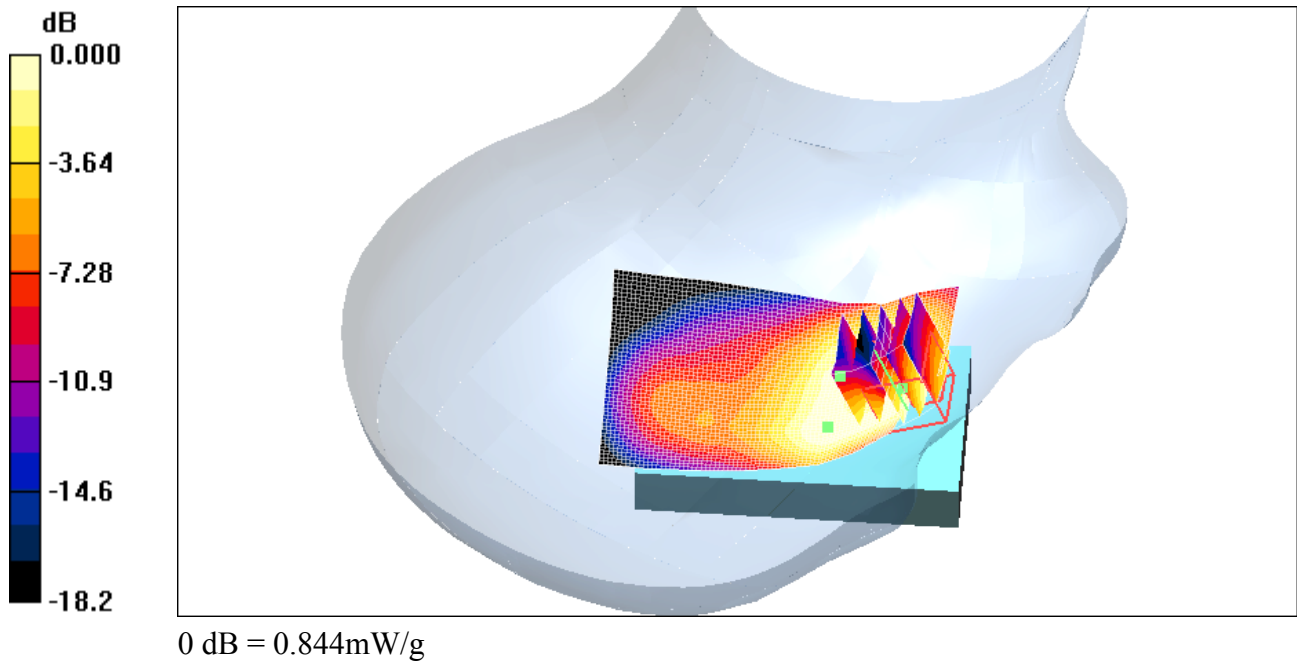
Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.752 mW/g ; SAR(10 g) = 0.364 mW/g

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

Maximum value of SAR (measured) = 0.844 mW/g

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Date/Time: 13/07/2009 8:54:20 PM

Test Laboratory: RTS

File Name:

RightHandSide UMTS Band IV high chan amb temp 22.8 liq temp 22.2C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1752.6 \text{ MHz}$; $\sigma = 1.31 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.04 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.6 V/m ; Power Drift = 0.041 dB

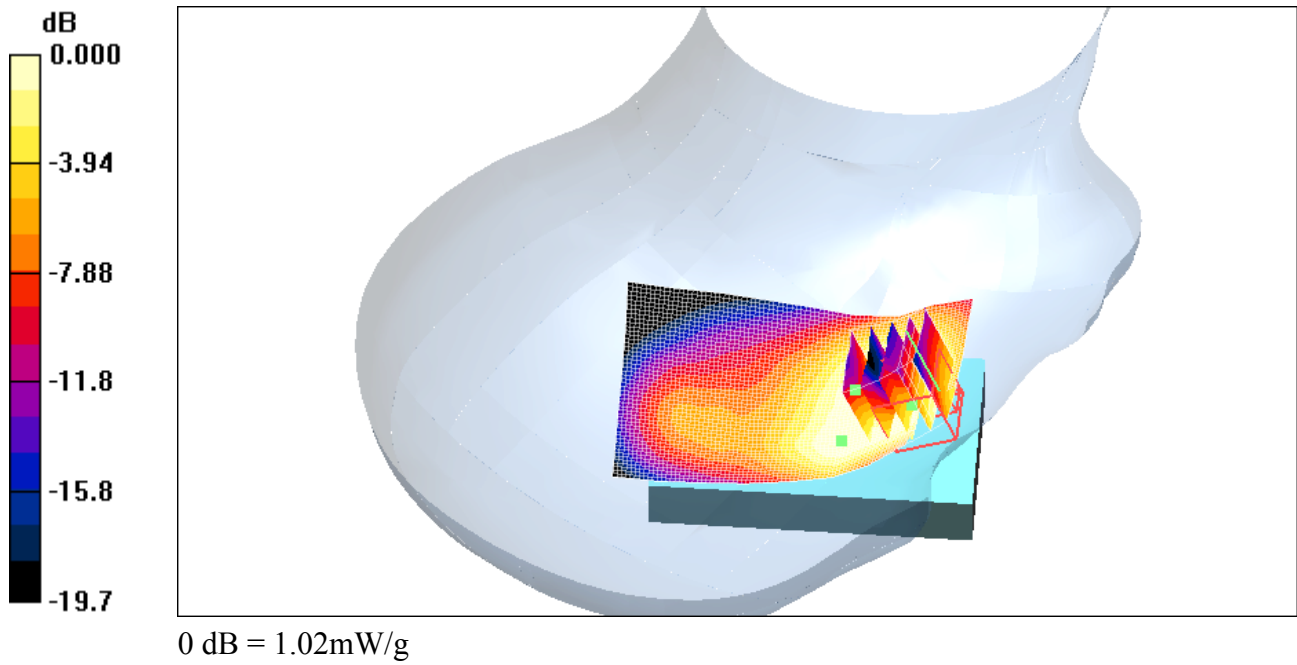
Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.855 mW/g ; SAR(10 g) = 0.431 mW/g

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

Maximum value of SAR (measured) = 1.02 mW/g

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Date/Time: 13/07/2009 9:10:55 PM

Test Laboratory: RTS

File Name:

RightHandSide Tilt UMTS band IV high chan amb temp 22.9 liq temp 22.3C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684
Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 1752.6 \text{ MHz}$; $\sigma = 1.31 \text{ mho/m}$; $\epsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Tilt position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.374 mW/g

Tilt position -/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.1 V/m ; Power Drift = -0.035 dB

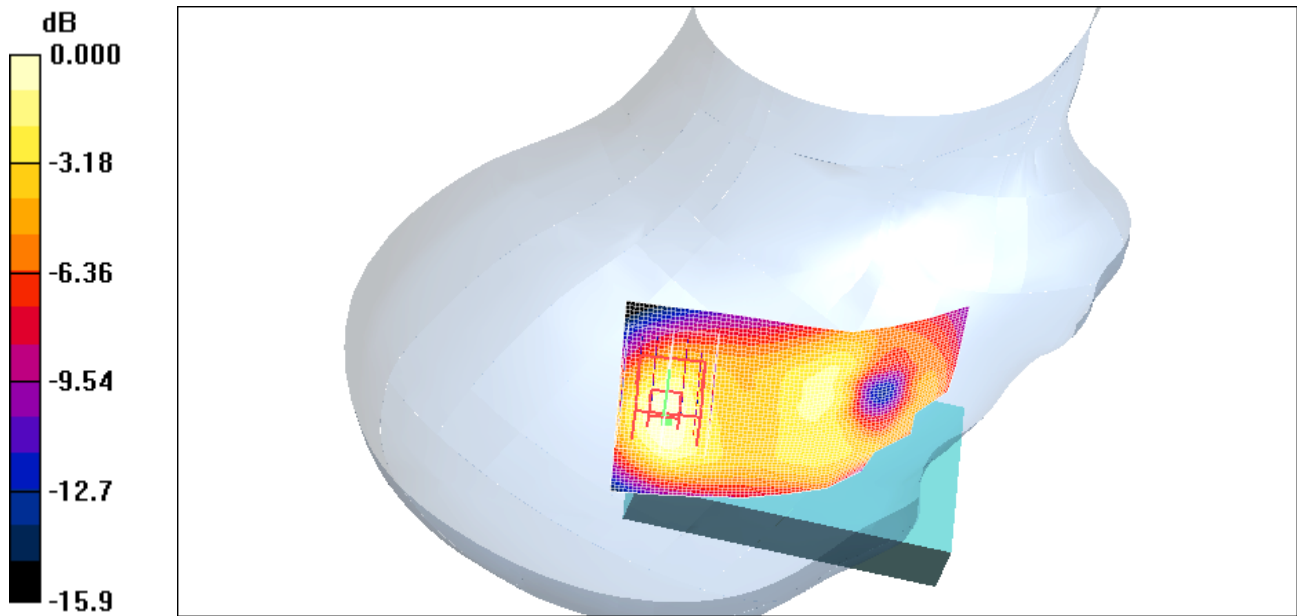
Peak SAR (extrapolated) = 0.467 W/kg

SAR(1 g) = 0.325 mW/g ; SAR(10 g) = 0.194 mW/g

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

Maximum value of SAR (measured) = 0.363 mW/g

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0 dB = 0.363mW/g

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Date/Time: 12/08/2009 12:14:51 AM

Test Laboratory: RTS

File Name: [LeftHandSide_EDGE1900_low_chan_amb_temp_22.9_liq_temp_22.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: EDGE 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 1.01 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.3 V/m ; Power Drift = -0.146 dB

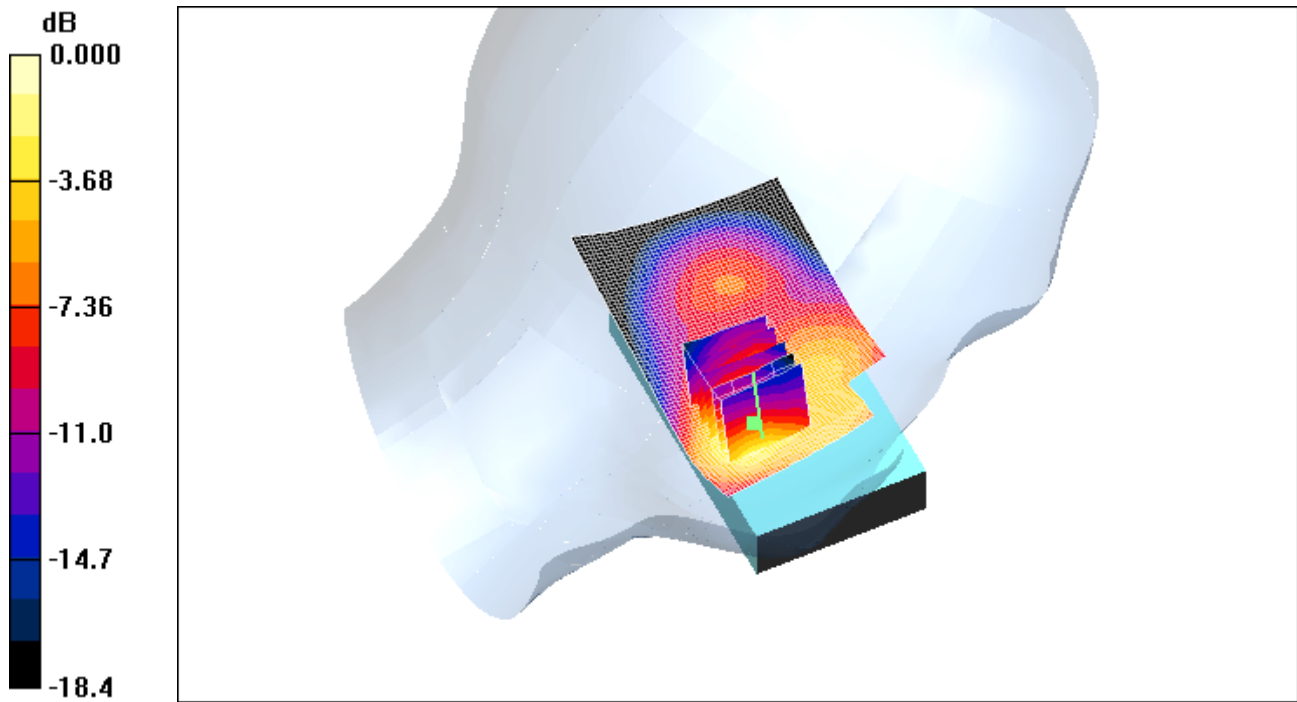
Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.976 mW/g ; SAR(10 g) = 0.556 mW/g

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

Maximum value of SAR (measured) = 1.05 mW/g

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0 dB = 1.05mW/g

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Date/Time: 12/08/2009 12:29:49 AM

Test Laboratory: RTS

File Name: [LeftHandSide_EDGE1900_mid_chan_amb_temp_22.9_liq_temp_22.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31
Program Name: Compliance Testing: (Left-Hand Side)

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

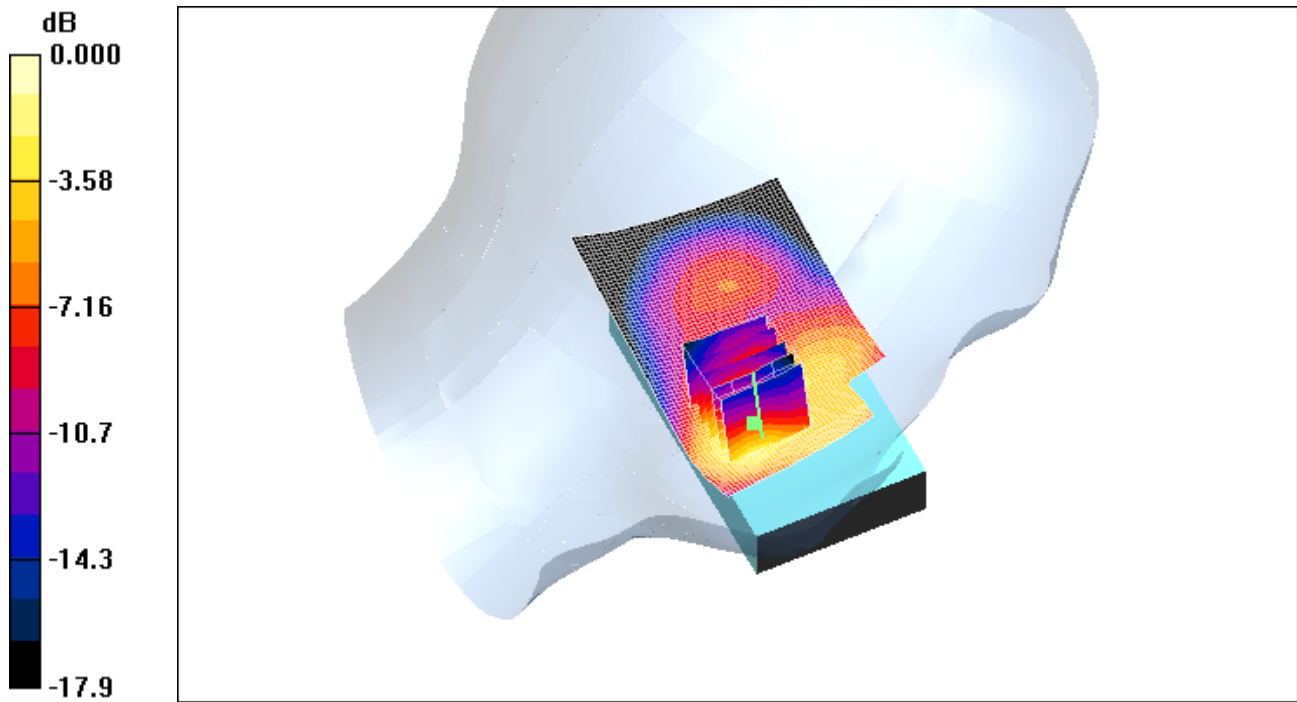
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.12 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 12.0 V/m; Power Drift = -0.070 dB
Peak SAR (extrapolated) = 1.81 W/kg
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.617 mW/g
Maximum value of SAR (measured) = 1.19 mW/g

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0 dB = 1.19mW/g

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Date/Time: 12/08/2009 12:43:06 AM

Test Laboratory: RTS

File Name: [LeftHandSide_EDGE1900_high_chan_amb_temp_22.8_liq_temp_22.1C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: EDGE 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1910 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

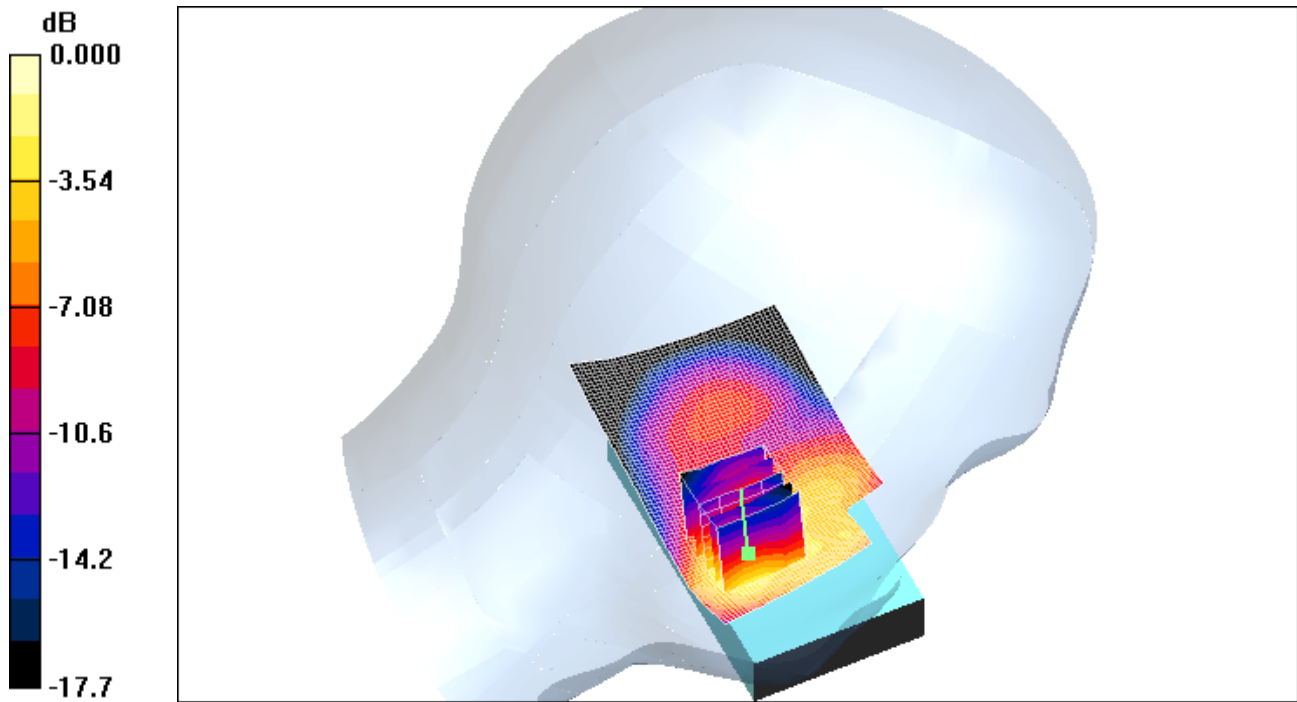
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.13 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.8 V/m; Power Drift = -0.055 dB
Peak SAR (extrapolated) = 1.84 W/kg
SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.613 mW/g
Maximum value of SAR (measured) = 1.20 mW/g

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0 dB = 1.20mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 12/08/2009 11:31:32 AM

Test Laboratory: RTS

File Name: [LeftHandSide_GSM1900_high_chan_amb_temp_22.8_liq_temp_22.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31
Program Name: Compliance Testing: (Left-Hand Side)

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1910$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³
Phantom section: Left Section

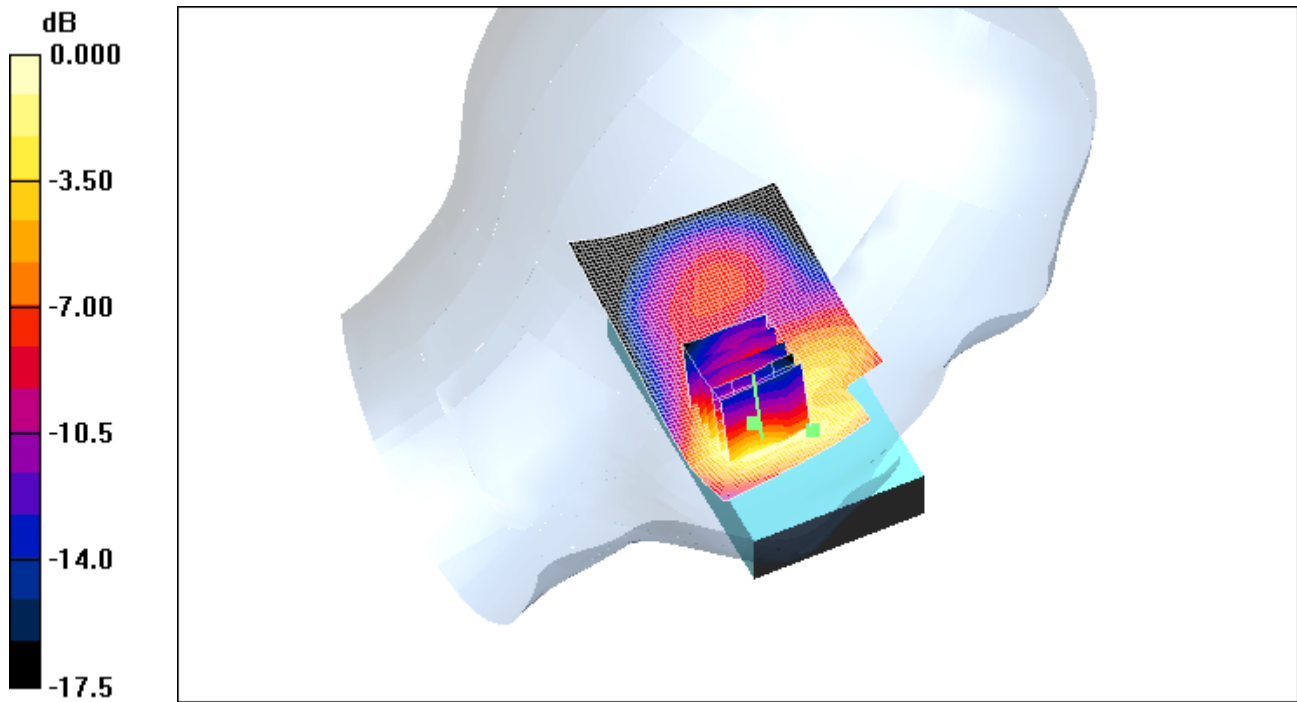
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.05 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 11.7 V/m; Power Drift = 0.002 dB
Peak SAR (extrapolated) = 1.72 W/kg
SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.557 mW/g
Maximum value of SAR (measured) = 1.07 mW/g

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0 dB = 1.07mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 12/08/2009 12:58:55 AM

Test Laboratory: RTS

File Name:

[LeftHandSide Tilt EDGE1900 high chan amb temp 22.8 liq temp 22.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: EDGE 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1910$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³
Phantom section: Left Section

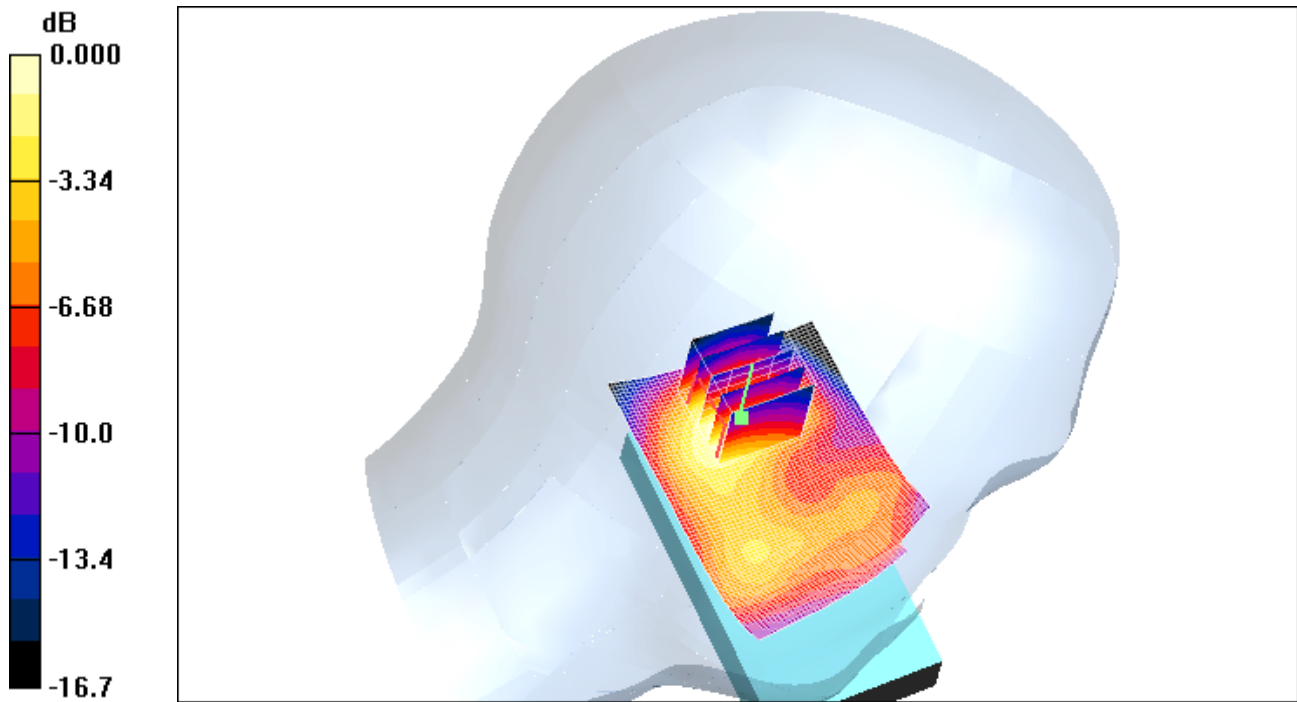
DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Tilt position -/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.376 mW/g

Tilt position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.9 V/m; Power Drift = 0.005 dB
Peak SAR (extrapolated) = 0.532 W/kg
SAR(1 g) = 0.349 mW/g; SAR(10 g) = 0.199 mW/g
Maximum value of SAR (measured) = 0.389 mW/g

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0 dB = 0.389mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 12/08/2009 9:26:48 AM

Test Laboratory: RTS

File Name:

[RightHandSide_EDGE1900_low_chan_amb_temp_23.0_liq_temp_22.4C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: EDGE 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.667 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.9 V/m ; Power Drift = -0.034 dB

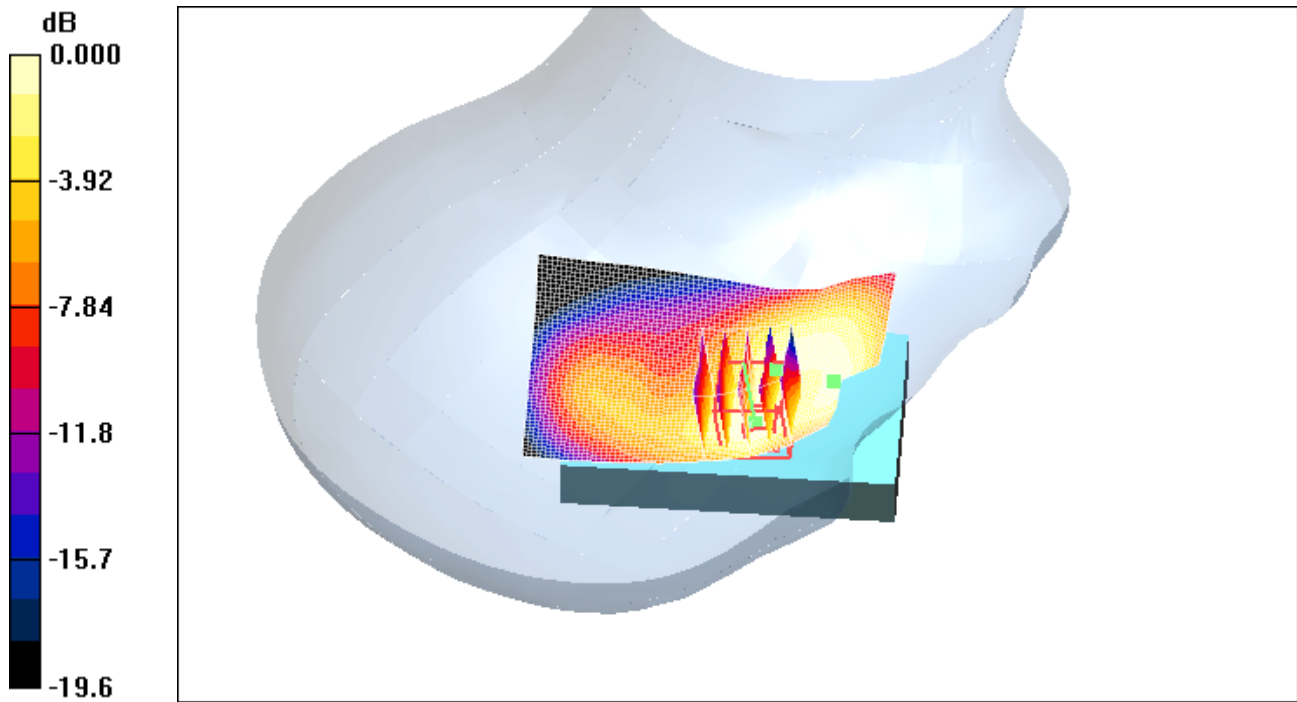
Peak SAR (extrapolated) = 0.829 W/kg

SAR(1 g) = 0.588 mW/g ; SAR(10 g) = 0.358 mW/g

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

Maximum value of SAR (measured) = 0.639 mW/g

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0 dB = 0.639mW/g

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Date/Time: 12/08/2009 9:41:10 AM

Test Laboratory: RTS

File Name:

[RightHandSide_EDGE1900_mid_chan_amb_temp_22.8_liq_temp_22.2C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.755 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

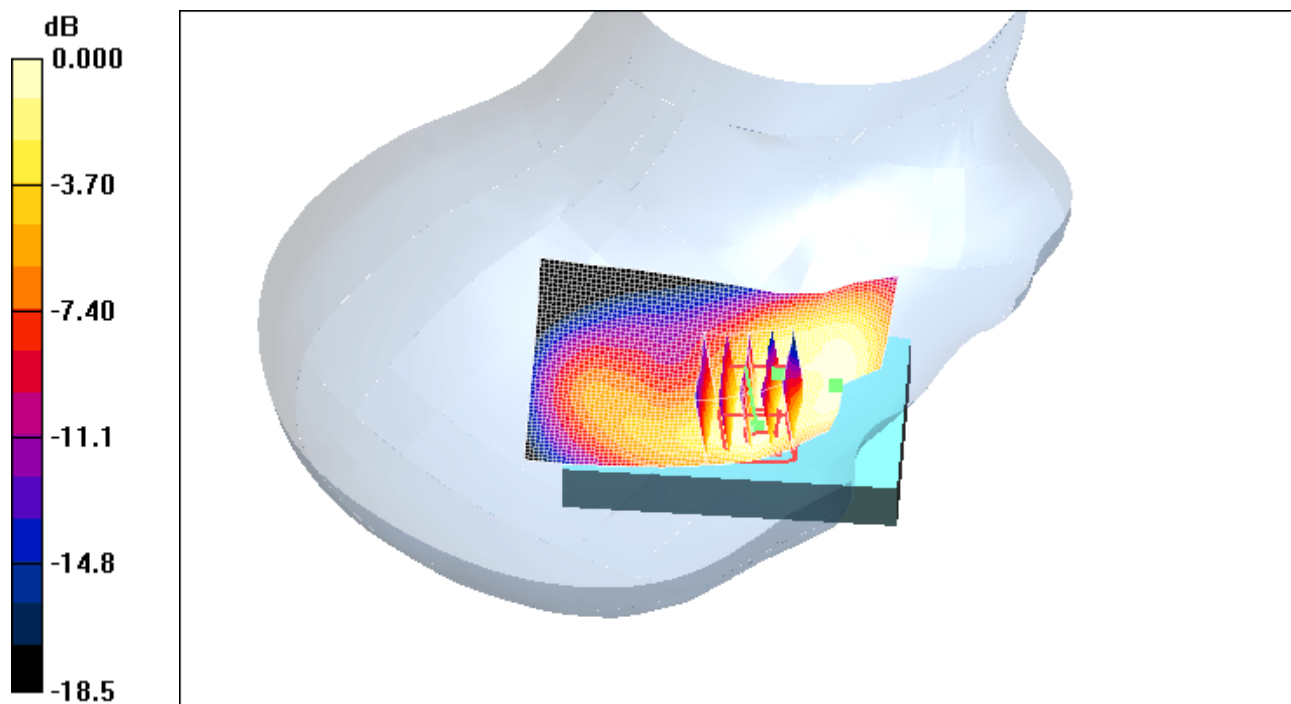
Reference Value = 12.0 V/m ; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.947 W/kg

SAR(1 g) = 0.660 mW/g ; SAR(10 g) = 0.401 mW/g

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

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0 dB = 0.718mW/g

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Date/Time: 12/08/2009 10:00:09 AM

Test Laboratory: RTS

File Name:

[RightHandSide Tilt EDGE1900 mid_chan_amb_temp_22.4_liq_temp_22.0C.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 211A0A31

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.410 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

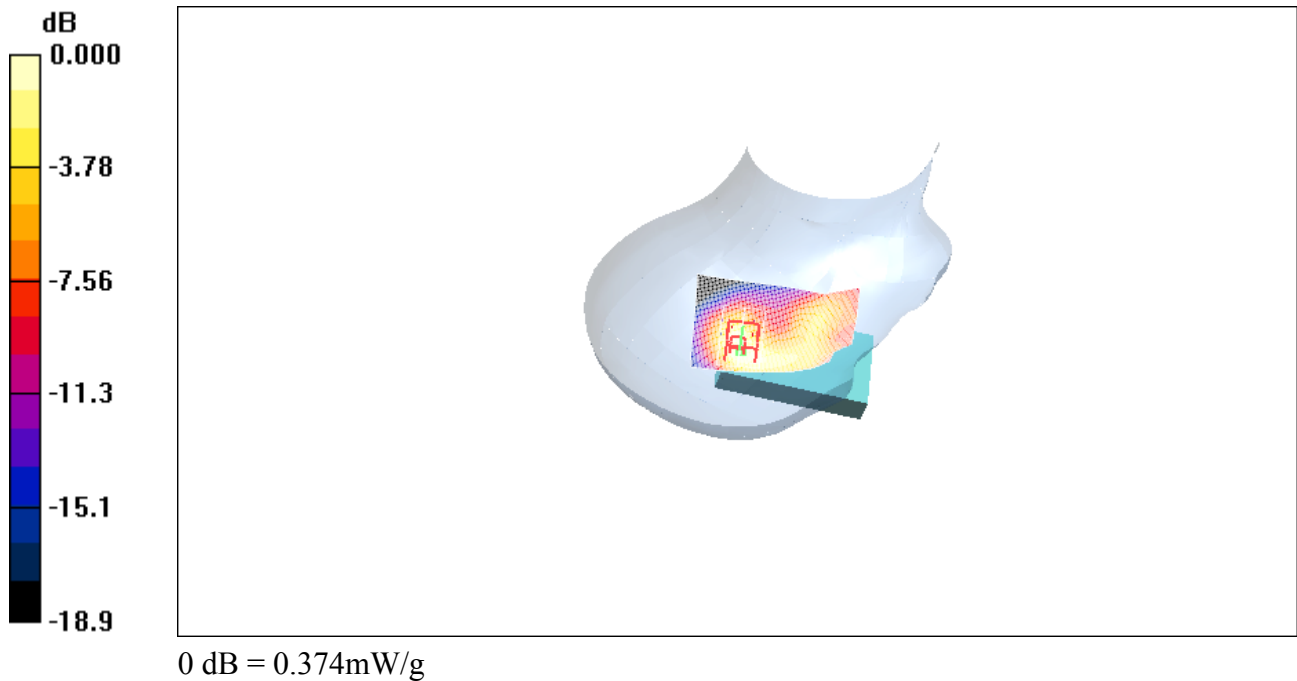
Reference Value = 15.2 V/m ; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 0.526 W/kg

SAR(1 g) = 0.345 mW/g ; SAR(10 g) = 0.203 mW/g

Maximum value of SAR (measured) = 0.374 mW/g

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Date/Time: 31/07/2009 12:34:29 PM

Test Laboratory: RTS

File Name: LeftHandSide_802.11b_high_chan_amb_temp_22.6_liq_temp_22.2C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.122 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.95 V/m ; Power Drift = 0.110 dB

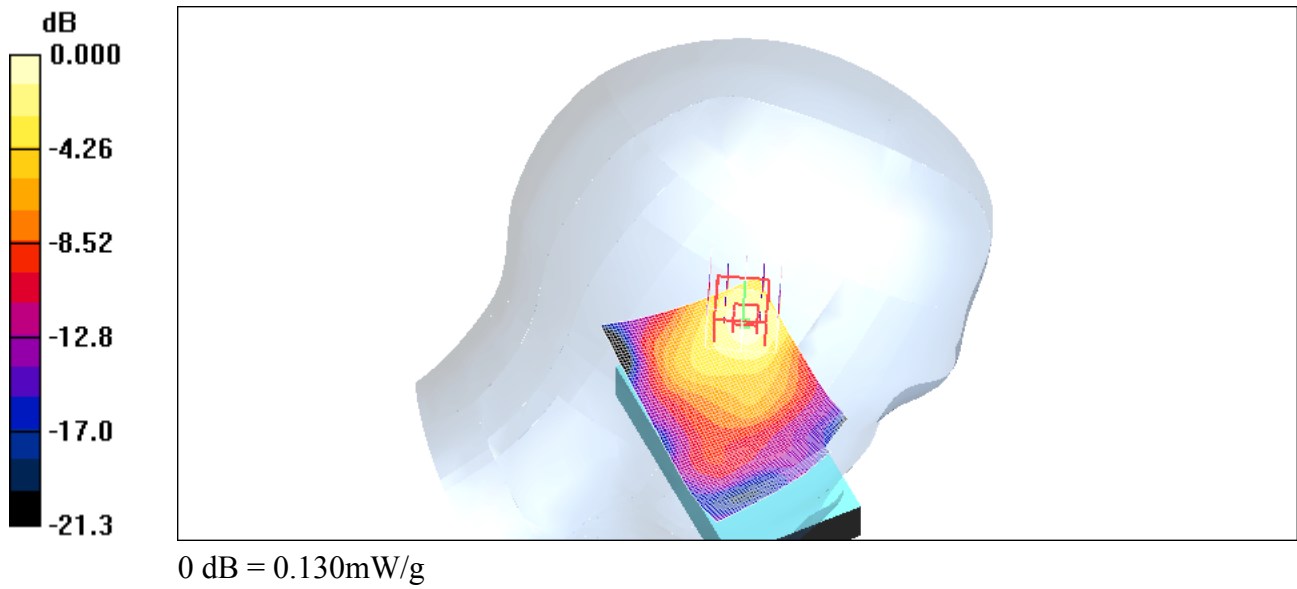
Peak SAR (extrapolated) = 0.281 W/kg

SAR(1 g) = 0.118 mW/g ; SAR(10 g) = 0.058 mW/g

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

Maximum value of SAR (measured) = 0.130 mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 31/07/2009 12:50:59 PM

Test Laboratory: RTS

File Name:

LeftHandSide Tilt 802.11b high chan amb temp 22.6 liq temp 22.2C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684

Program Name: Compliance Testing: (Left-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.120 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.72 V/m ; Power Drift = -0.187 dB

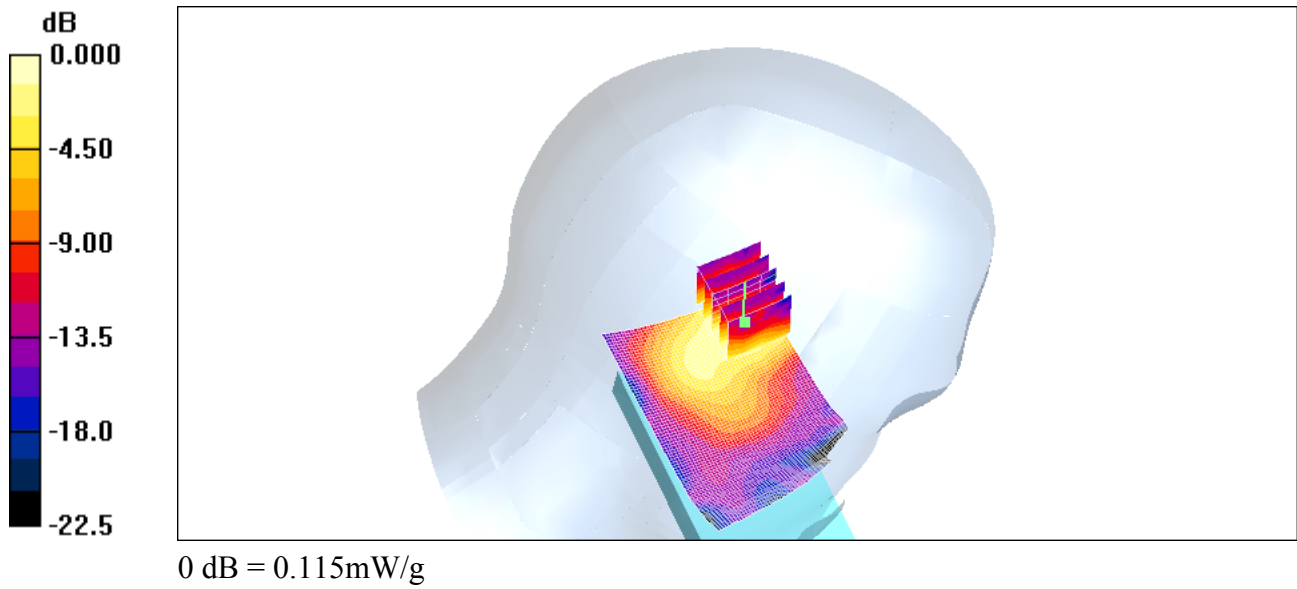
Peak SAR (extrapolated) = 0.253 W/kg

SAR(1 g) = 0.110 mW/g ; SAR(10 g) = 0.056 mW/g

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

Maximum value of SAR (measured) = 0.115 mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARC70UW

Date/Time: 31/07/2009 11:05:36 AM

Test Laboratory: RTS

File Name: RightHandSide_802.11b_low_chan_amb_temp_22.8_liq_temp_22.2C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.83 \text{ mho/m}$; $\epsilon_r = 37.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.083 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.81 V/m; Power Drift = 0.131 dB

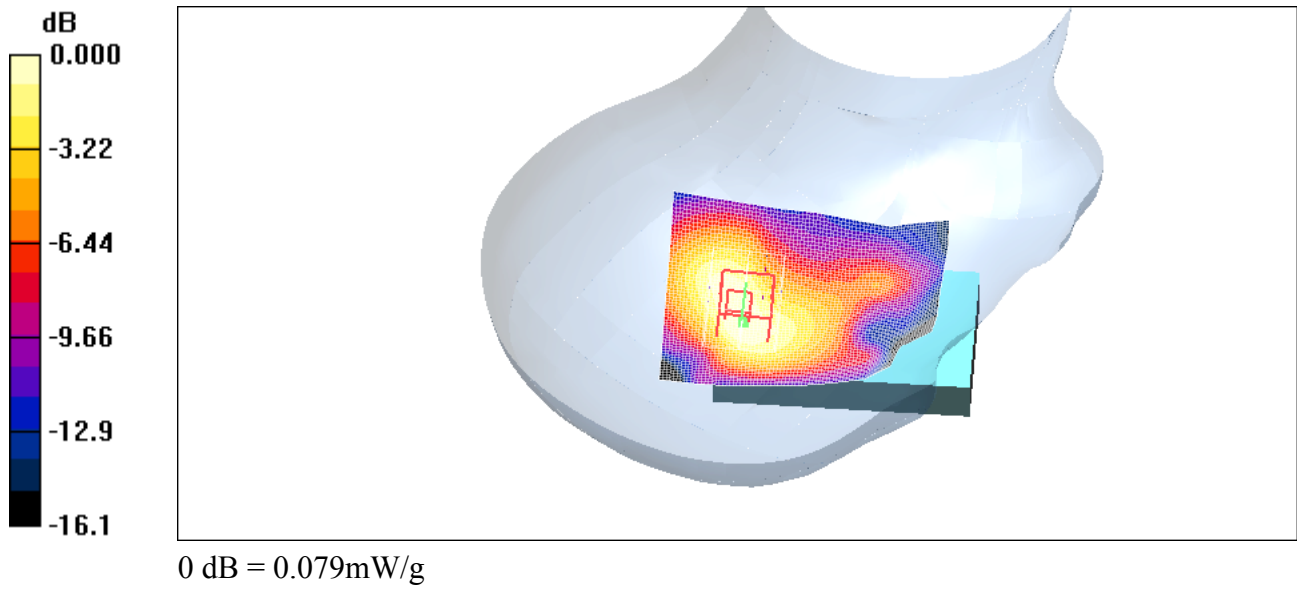
Peak SAR (extrapolated) = 0.150 W/kg

SAR(1 g) = 0.072 mW/g; SAR(10 g) = 0.038 mW/g

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

Maximum value of SAR (measured) = 0.079 mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARCN70UW

Date/Time: 31/07/2009 11:23:24 AM

Test Laboratory: RTS

File Name: RightHandSide_802.11b_mid_chan_amb_temp_22.6_liq_temp_22.1C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.86 \text{ mho/m}$; $\epsilon_r = 37.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.092 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.15 V/m ; Power Drift = -0.075 dB

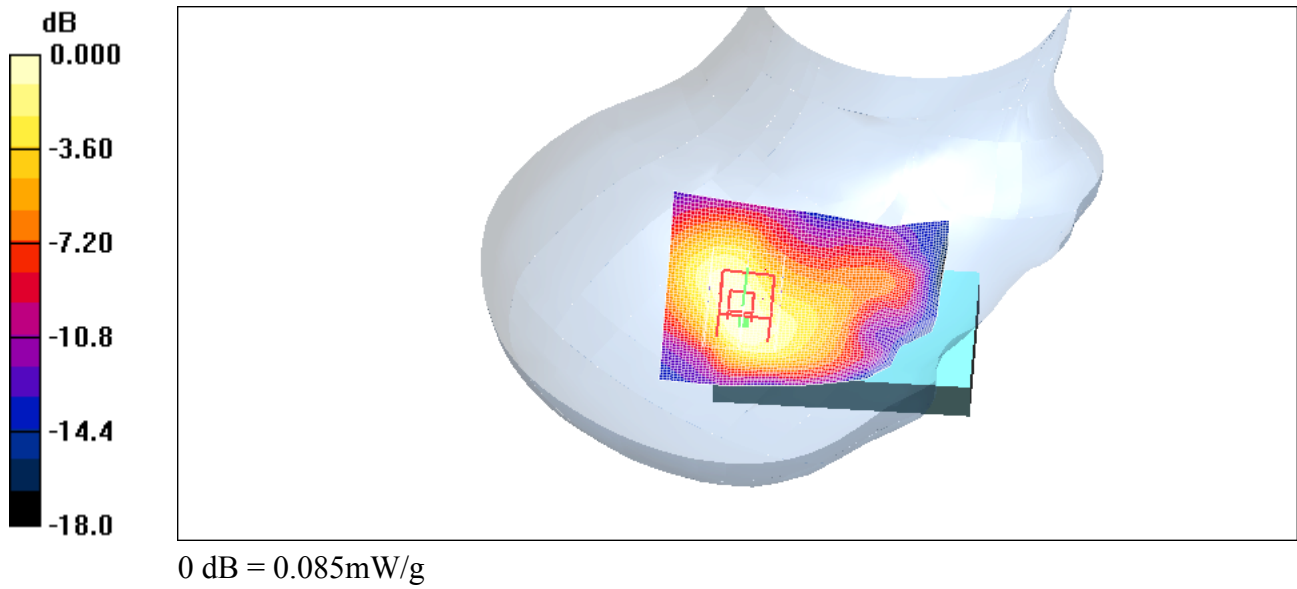
Peak SAR (extrapolated) = 0.128 W/kg

SAR(1 g) = 0.075 mW/g ; SAR(10 g) = 0.042 mW/g

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

Maximum value of SAR (measured) = 0.085 mW/g

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Author Data Andrew Becker	Dates of Test July 13-August 20, 2009	Test Report No RTS-1689-0908-36	FCC ID: L6ARC70UW

Date/Time: 31/07/2009 11:43:57 AM

Test Laboratory: RTS

File Name: RightHandSide_802.11b_high_chan_amb_temp_22.7_liq_temp_22.3C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684
Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.092 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.02 V/m ; Power Drift = -0.007 dB

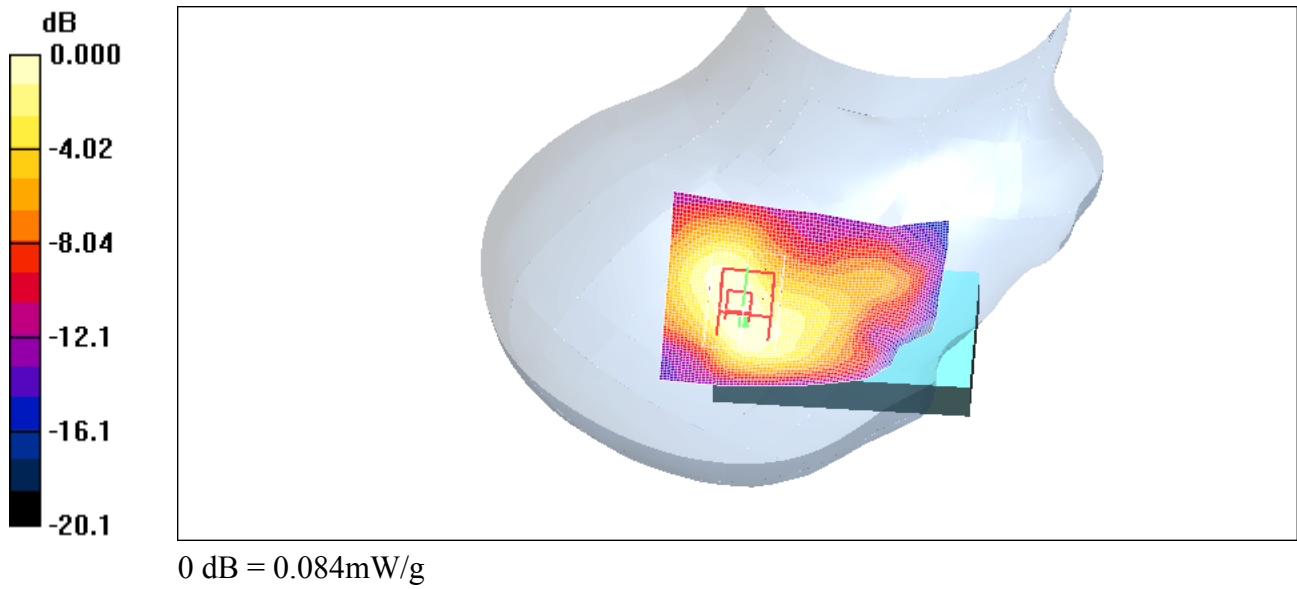
Peak SAR (extrapolated) = 0.123 W/kg

SAR(1 g) = 0.076 mW/g ; SAR(10 g) = 0.042 mW/g

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

Maximum value of SAR (measured) = 0.084 mW/g

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Date/Time: 31/07/2009 12:02:31 PM

Test Laboratory: RTS

File Name:

RightHandSide Tilt 802.11b_high_chan_amb_temp_22.8_liq_temp_22.4C.da4

DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21088684

Program Name: Compliance Testing: (Right-Hand Side)

Communication System: 802.11 b (2450); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.54, 4.54, 4.54); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Touch position -/Area Scan (61x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Maximum value of SAR (interpolated) = 0.115 mW/g

Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

$dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.37 V/m ; Power Drift = -0.194 dB

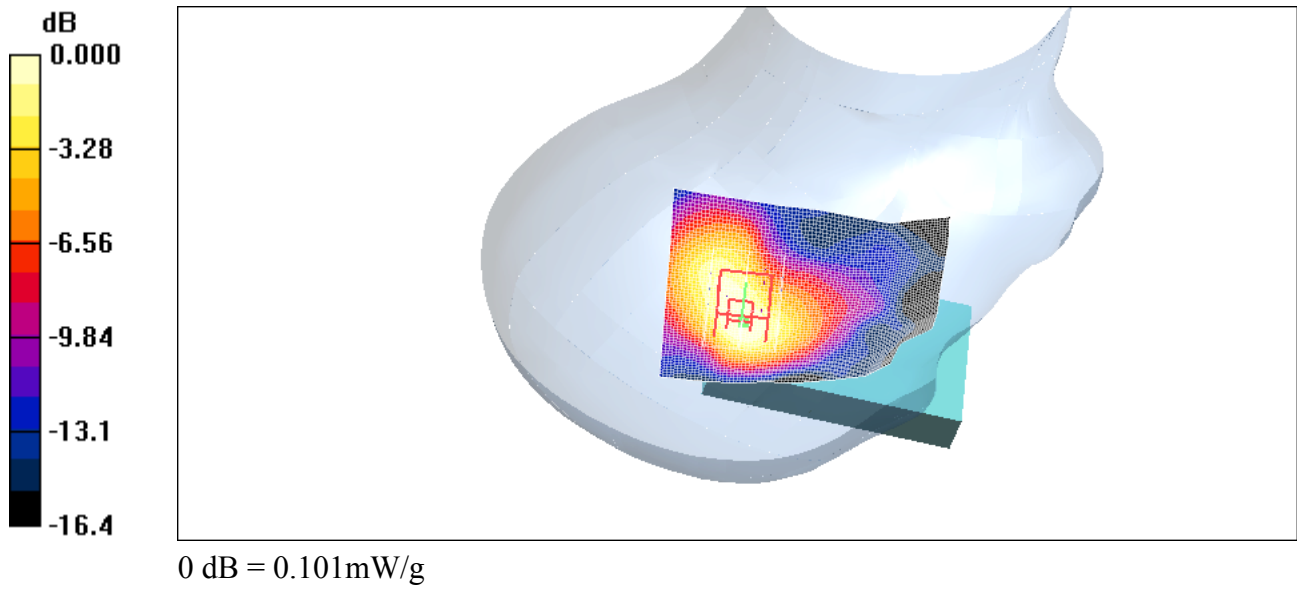
Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.090 mW/g ; SAR(10 g) = 0.049 mW/g

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

Maximum value of SAR (measured) = 0.101 mW/g

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Z axis plot for the worst case head configuration:

