

<b>RTS</b> <b>RIM Testing Services</b>	Document <b>Appendix for the BlackBerry® Smartphone Model RCG41GW SAR Report</b>		Page <b>1(70)</b>
Author Data <b>Jean-Paul Hacquoil</b>	Dates of Test <b>April 01-07, April 30-May 07, May 20, 2009</b>	Test Report No <b>RTS-1615-0905-02</b>	FCC ID: <b>L6ARCG40GW</b>

**APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION**

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Date/Time: 30/04/2009 11:57:25 PM

Test Laboratory: RTS

File Name: [LeftHandSide\\_EDGE850\\_low\\_chan\\_amb\\_temp\\_23.0\\_liq\\_temp\\_22.5C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: EDGE 850; Frequency: 824.2 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.863 \text{ mho/m}$ ;  $\epsilon_r = 40.9$ ;  $\rho = 1000 \text{ kg/m}^3$   
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 - Low/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.819 mW/g

**Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.09 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 1.01 W/kg

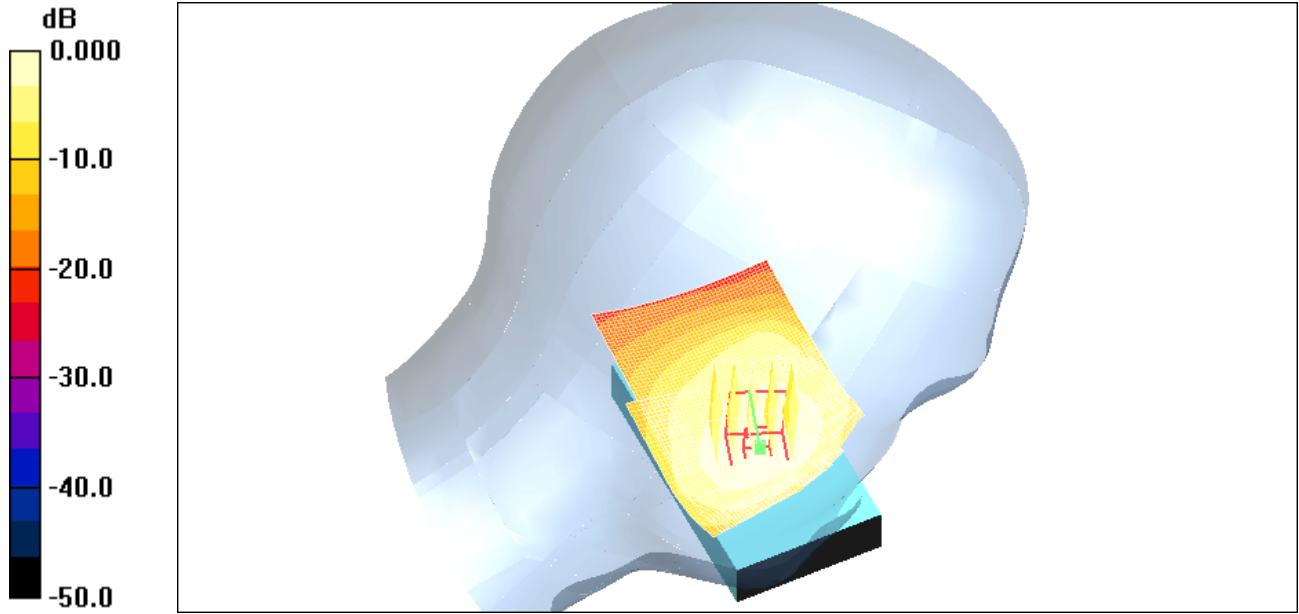
**SAR(1 g) = 0.768 mW/g; SAR(10 g) = 0.543 mW/g**

Maximum value of SAR (measured) = 0.848 mW/g

**Touch position - Low/Area Scan 2 (41x41x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.852 mW/g

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0 dB = 0.852mW/g

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Date/Time: 01/05/2009 12:11:18 AM

Test Laboratory: RTS

File Name: [LeftHandSide\\_EDGE850\\_mid\\_chan\\_amb\\_temp\\_22.8\\_liq\\_temp\\_22.2C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: EDGE 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.874$  mho/m;  $\epsilon_r = 40.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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 - Low/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.898 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.08 V/m; Power Drift = 0.084 dB

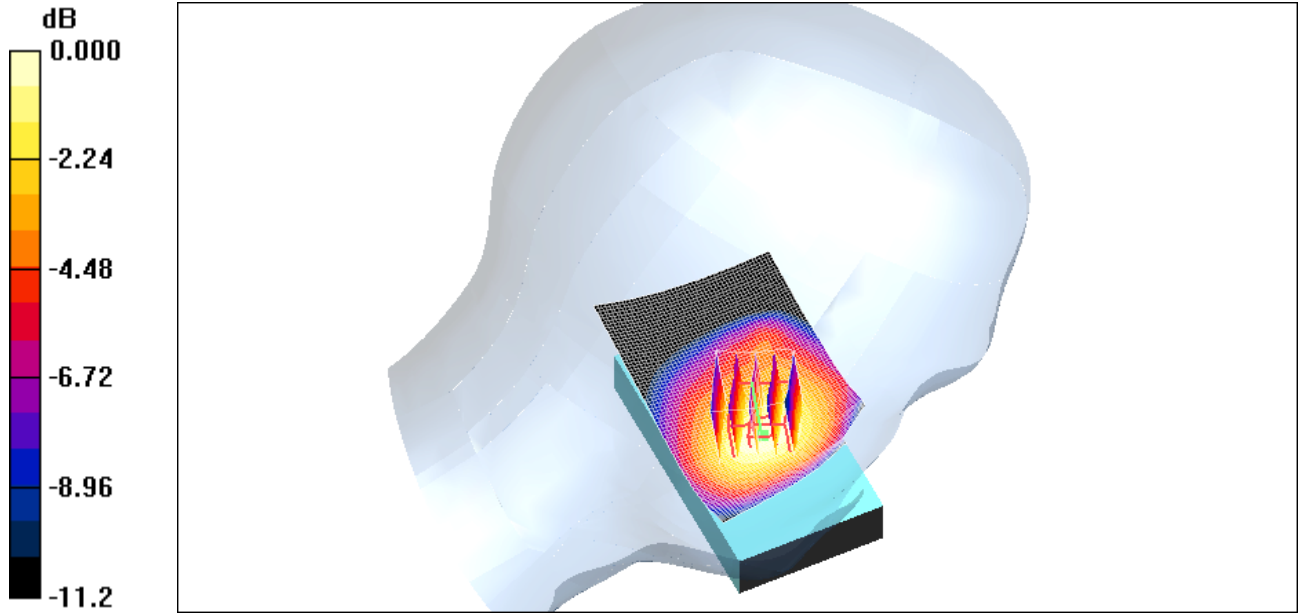
Peak SAR (extrapolated) = 1.11 W/kg

**SAR(1 g) = 0.830 mW/g; SAR(10 g) = 0.583 mW/g**

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

Maximum value of SAR (measured) = 0.918 mW/g

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0 dB = 0.918mW/g

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Date/Time: 01/05/2009 12:24:51 AM

Test Laboratory: RTS

File Name: [LeftHandSide\\_EDGE850\\_high\\_chan\\_amb\\_temp\\_22.6\\_liq\\_temp\\_22.0C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: EDGE 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.885$  mho/m;  $\epsilon_r = 40.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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 - High/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.939 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.66 V/m; Power Drift = -0.036 dB

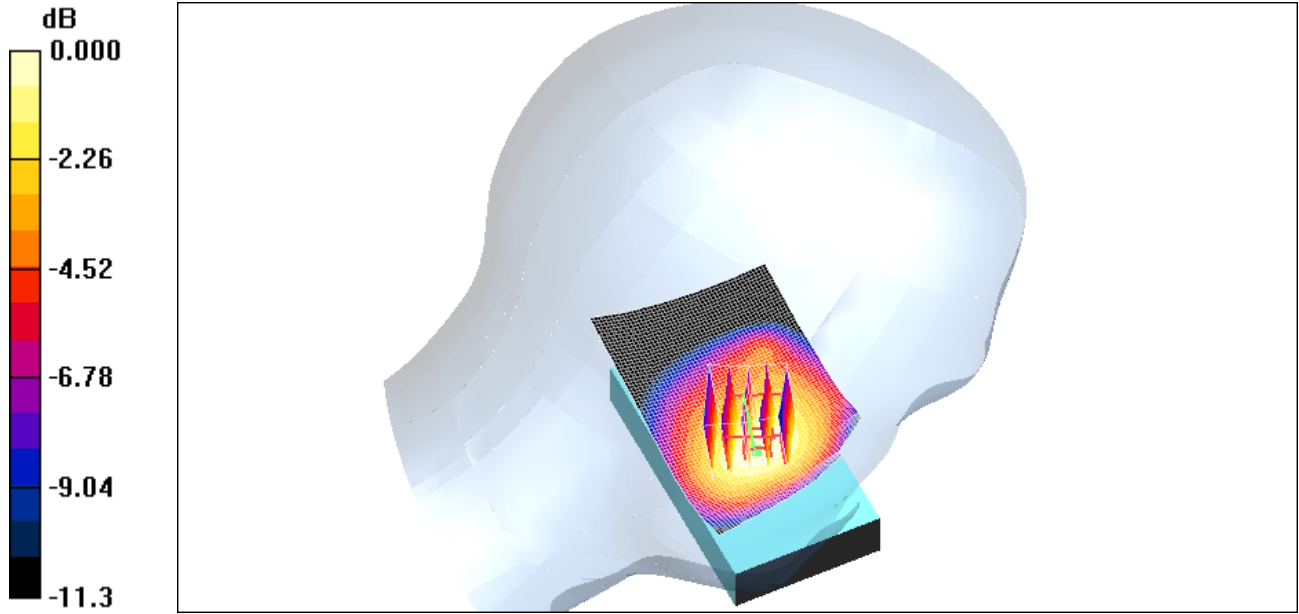
Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.863 mW/g; SAR(10 g) = 0.610 mW/g**

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

Maximum value of SAR (measured) = 0.940 mW/g

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0 dB = 0.940mW/g

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Date/Time: 01/05/2009 9:16:07 AM

Test Laboratory: RTS

File Name: [LeftHandSide\\_GSM850\\_high\\_chan\\_amb\\_temp\\_22.8\\_liq\\_temp\\_22.1C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.885$  mho/m;  $\epsilon_r = 40.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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 - High/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.992 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.6 V/m; Power Drift = 0.074 dB

Peak SAR (extrapolated) = 1.19 W/kg

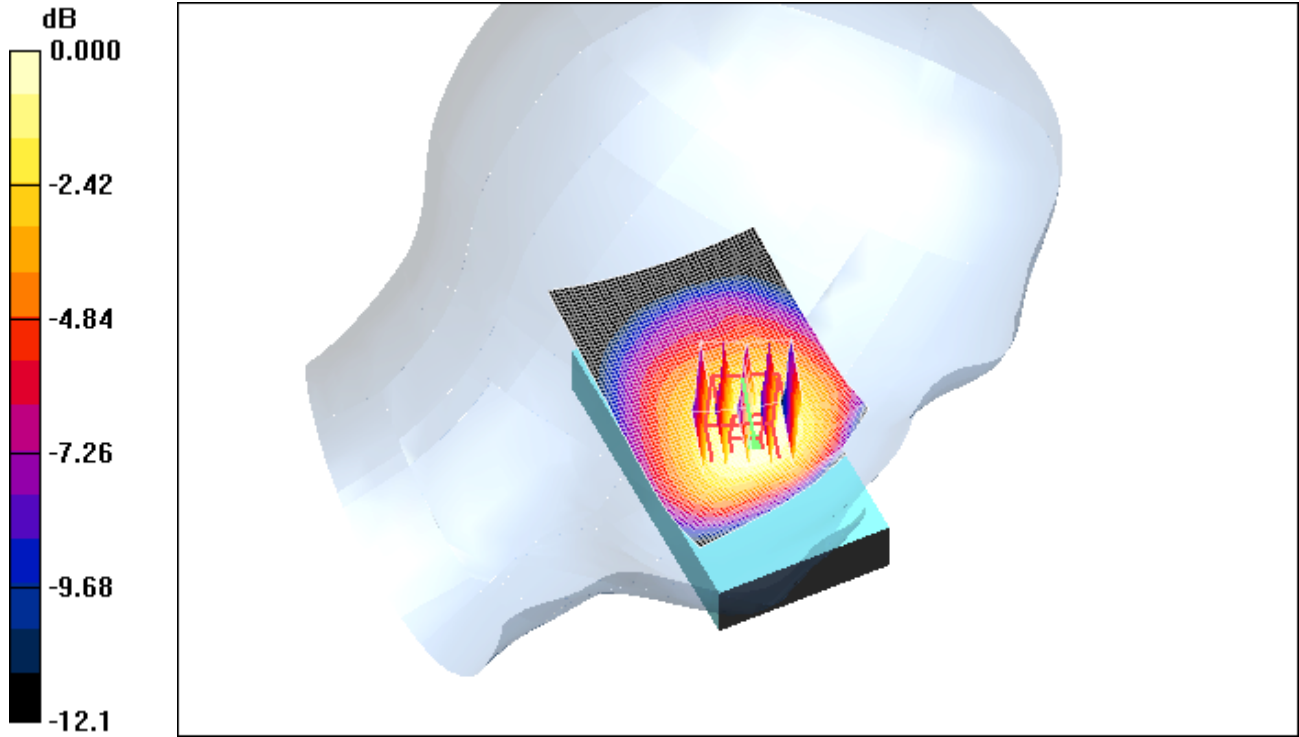
**SAR(1 g) = 0.919 mW/g; SAR(10 g) = 0.652 mW/g**

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

Maximum value of SAR (measured) = 0.973 mW/g



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0 dB = 0.973mW/g

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Date/Time: 01/05/2009 10:10:41 AM

Test Laboratory: RTS

File Name:

[LeftHandSide Tilt GSM850 high chan amb temp 22.0 liq temp 21.8C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 848.8 \text{ MHz}$ ;  $\sigma = 0.885 \text{ mho/m}$ ;  $\epsilon_r = 40.6$ ;  $\rho = 1000 \text{ kg/m}^3$

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 - High/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.528 mW/g

**Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.9 V/m; Power Drift = -0.122 dB

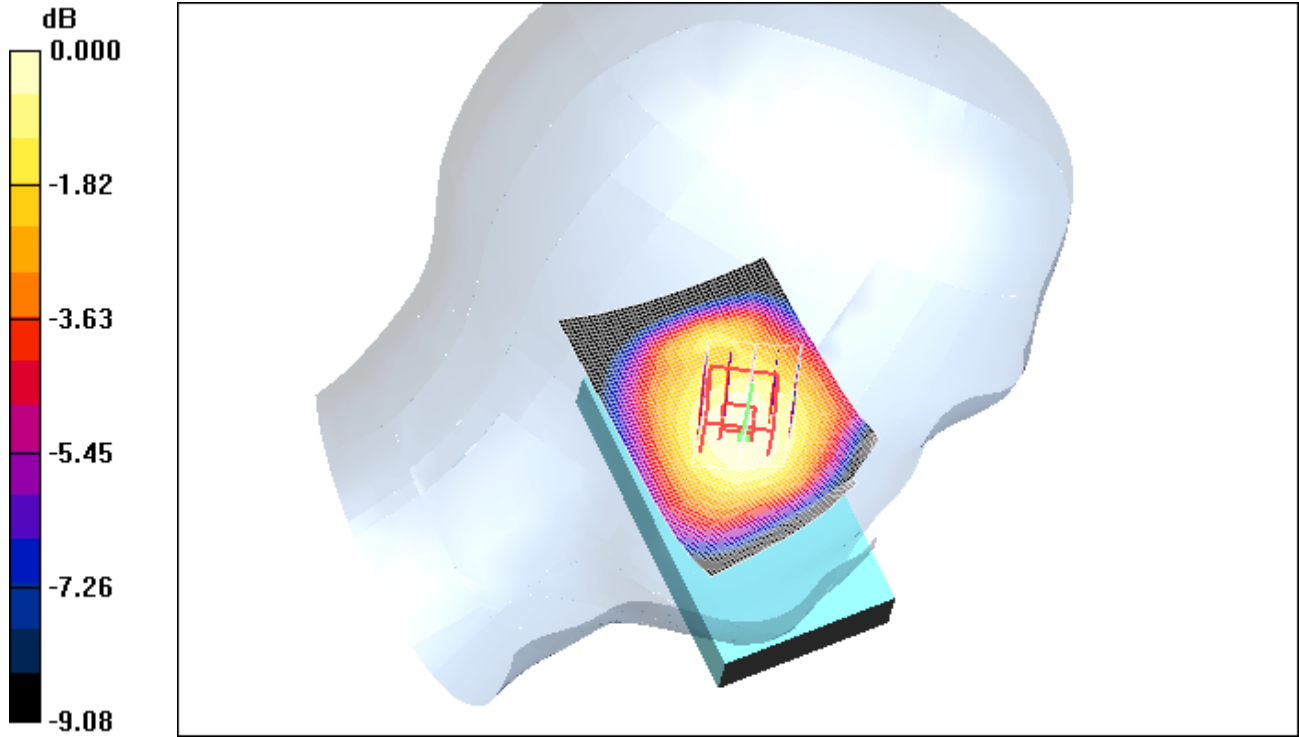
Peak SAR (extrapolated) = 0.627 W/kg

**SAR(1 g) = 0.506 mW/g; SAR(10 g) = 0.381 mW/g**

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

Maximum value of SAR (measured) = 0.532 mW/g

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0 dB = 0.532mW/g

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Date/Time: 01/05/2009 2:16:47 PM

Test Laboratory: RTS

File Name: [RightHandSide\\_GSM850\\_low\\_chan\\_amb\\_temp\\_22.0\\_liq\\_temp\\_21.7C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.863$  mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- 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 - Low/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.881 mW/g

**Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

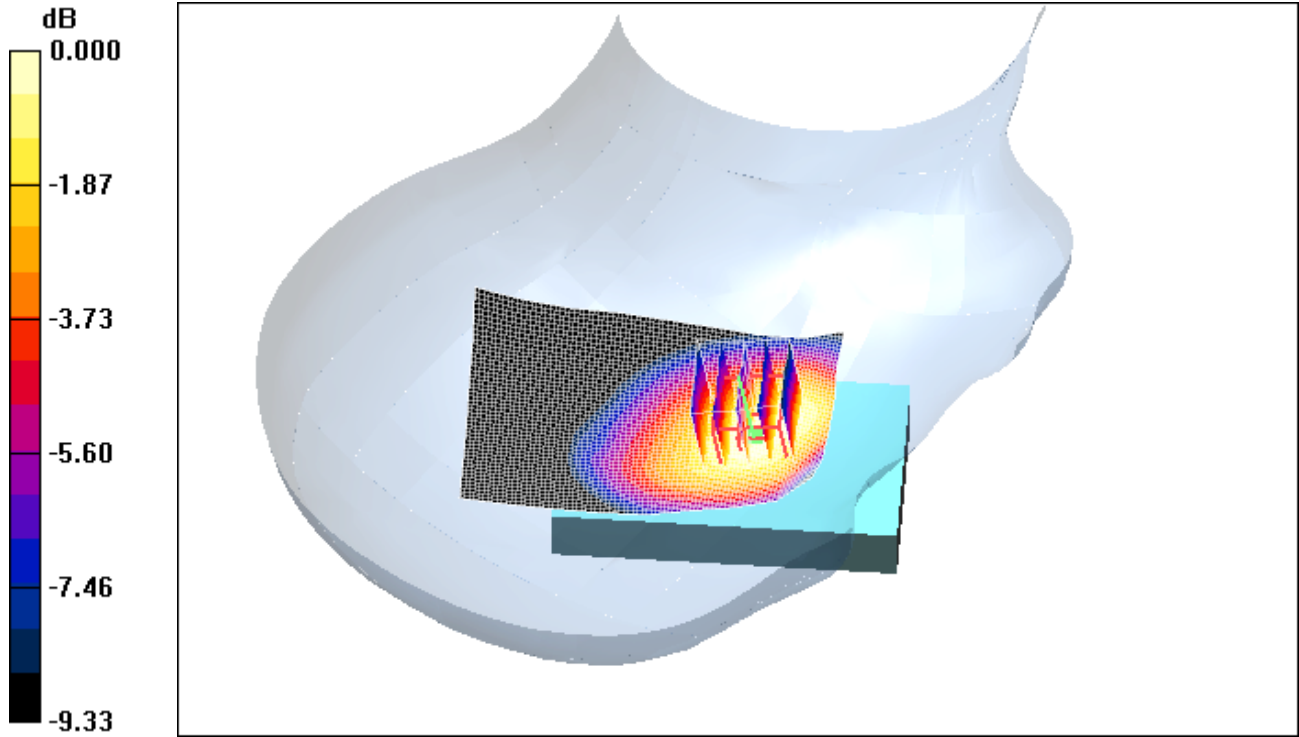
Reference Value = 13.2 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.820 mW/g; SAR(10 g) = 0.594 mW/g**

Maximum value of SAR (measured) = 0.882 mW/g

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0 dB = 0.882mW/g

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Date/Time: 01/05/2009 1:45:54 PM

Test Laboratory: RTS

File Name: [RightHandSide\\_GSM850\\_mid\\_chan\\_amb\\_temp\\_22.7\\_liq\\_temp\\_21.8C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 836.8$  MHz;  $\sigma = 0.874$  mho/m;  $\epsilon_r = 40.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- 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

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

Maximum value of SAR (interpolated) = 0.878 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = -0.056 dB

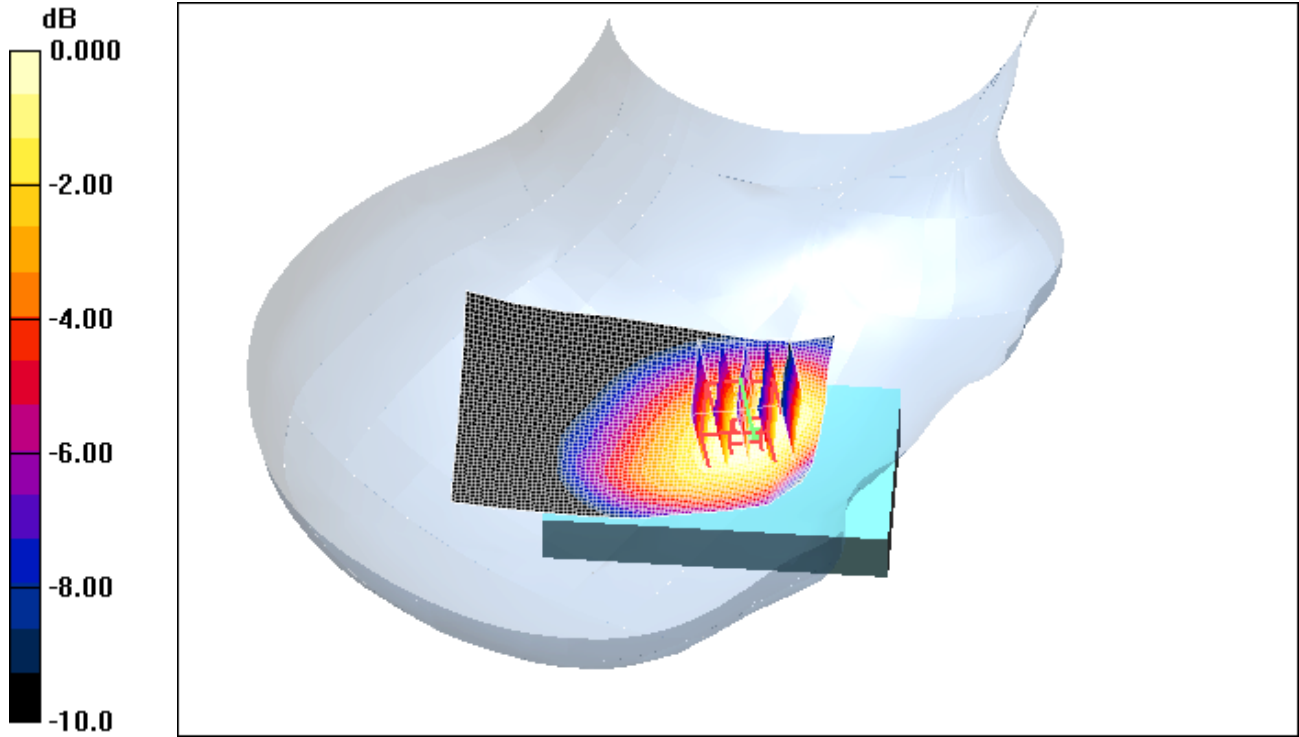
Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.827 mW/g; SAR(10 g) = 0.600 mW/g**

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

Maximum value of SAR (measured) = 0.880 mW/g

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0 dB = 0.880mW/g

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Date/Time: 01/05/2009 2:00:26 PM

Test Laboratory: RTS

File Name: [RightHandSide\\_GSM850\\_high\\_chan\\_amb\\_temp\\_23.0\\_liq\\_temp\\_22.0C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.885$  mho/m;  $\epsilon_r = 40.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- 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

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

Maximum value of SAR (interpolated) = 0.908 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.4 V/m; Power Drift = -0.003 dB

Peak SAR (extrapolated) = 1.06 W/kg

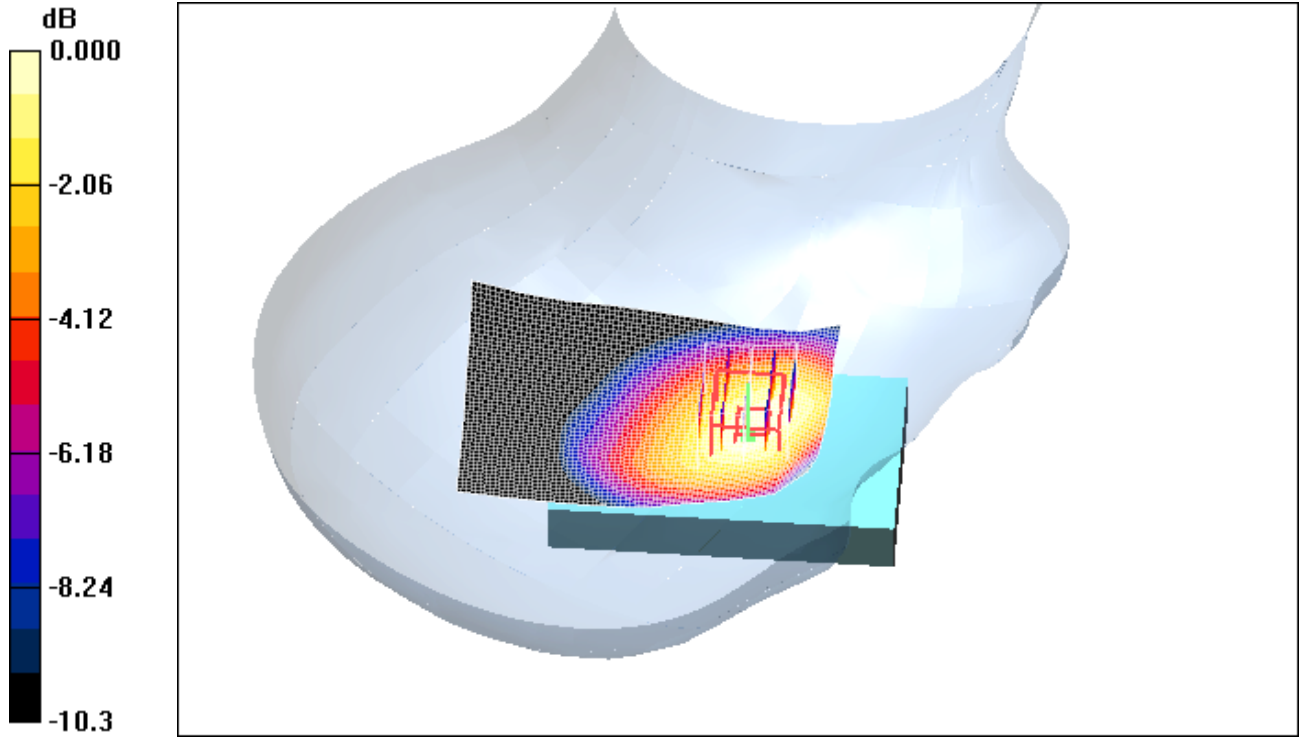
**SAR(1 g) = 0.849 mW/g; SAR(10 g) = 0.607 mW/g**

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

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



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0 dB = 0.931mW/g

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Date/Time: 01/05/2009 2:35:24 PM

Test Laboratory: RTS

File Name: [RightHandSide\\_EDGE850\\_high\\_chan\\_amb\\_temp\\_22.8\\_liq\\_temp\\_22.1C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: EDGE 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8 \text{ MHz}$ ;  $\sigma = 0.885 \text{ mho/m}$ ;  $\epsilon_r = 40.6$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- 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) = 0.906 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 = -0.042 dB

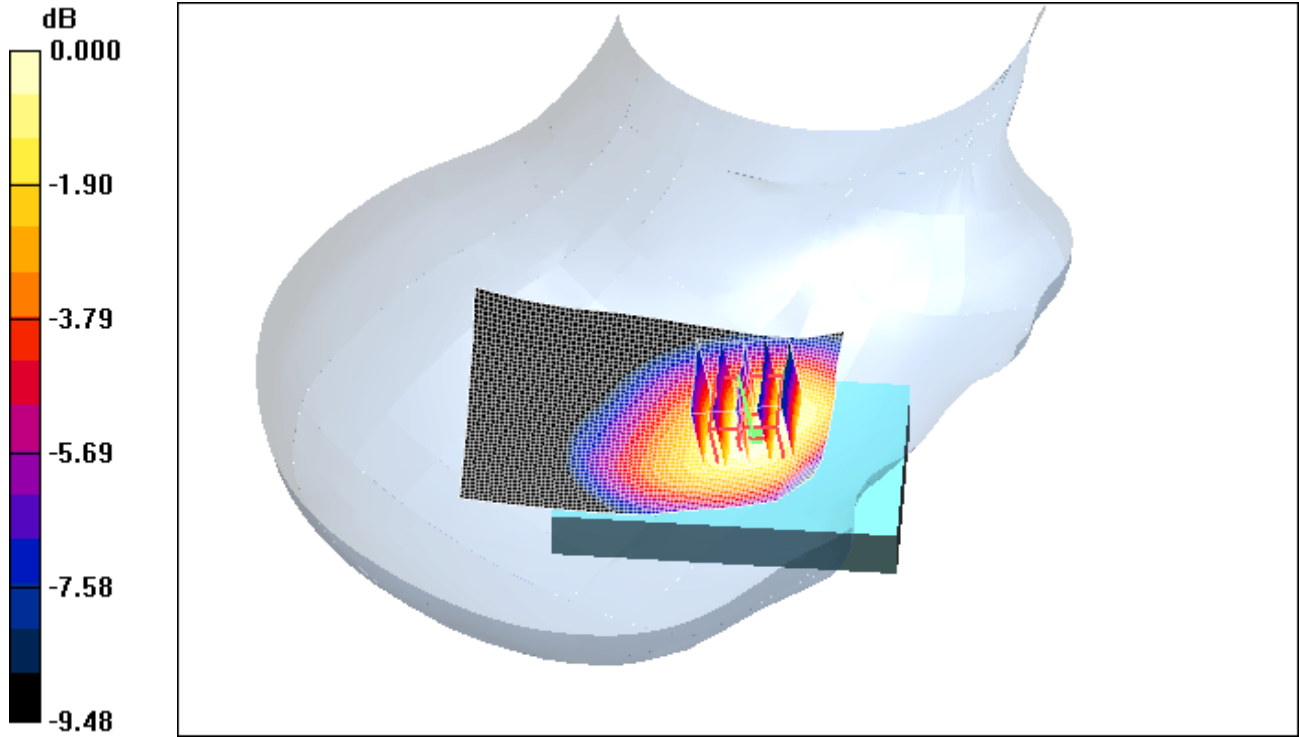
Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.851 mW/g; SAR(10 g) = 0.616 mW/g**

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

Maximum value of SAR (measured) = 0.917 mW/g

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0 dB = 0.917mW/g

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Date/Time: 01/05/2009 3:04:18 PM

Test Laboratory: RTS

File Name:

[RightHandSide Tilt EDGE850 high chan amb temp 22.8 liq temp 22.1C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: EDGE 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8$  MHz;  $\sigma = 0.885$  mho/m;  $\epsilon_r = 40.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.42, 6.42, 6.42); Calibrated: 18/01/2008
- 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

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

Maximum value of SAR (interpolated) = 0.532 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.8 V/m; Power Drift = -0.039 dB

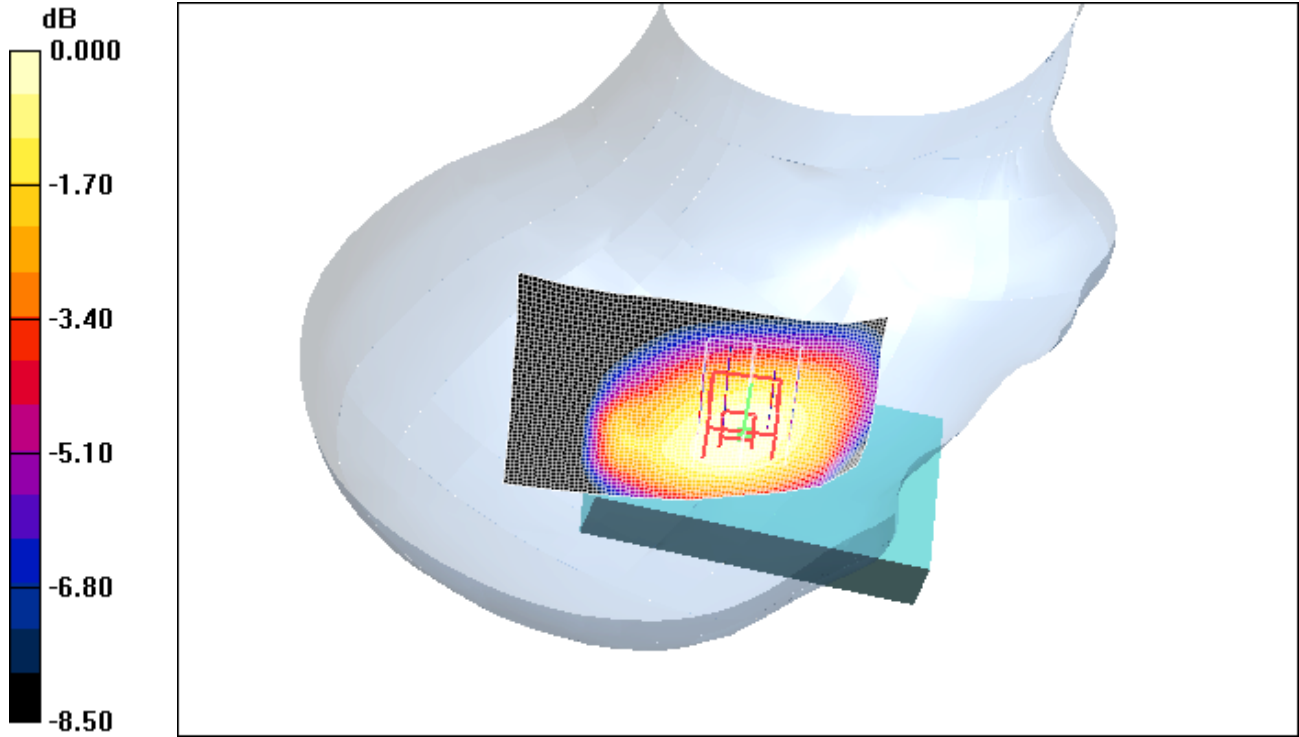
Peak SAR (extrapolated) = 0.598 W/kg

**SAR(1 g) = 0.500 mW/g; SAR(10 g) = 0.378 mW/g**

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

Maximum value of SAR (measured) = 0.524 mW/g

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0 dB = 0.524mW/g

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Date/Time: 06/05/2009 12:07:14 PM

Test Laboratory: RTS

File Name: [LeftHandSide\\_EDGE1900\\_low\\_chan\\_amb\\_temp\\_22.9\\_liq\\_temp\\_21.8C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: EDGE 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 38.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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

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

Maximum value of SAR (interpolated) = 0.832 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = -0.181 dB

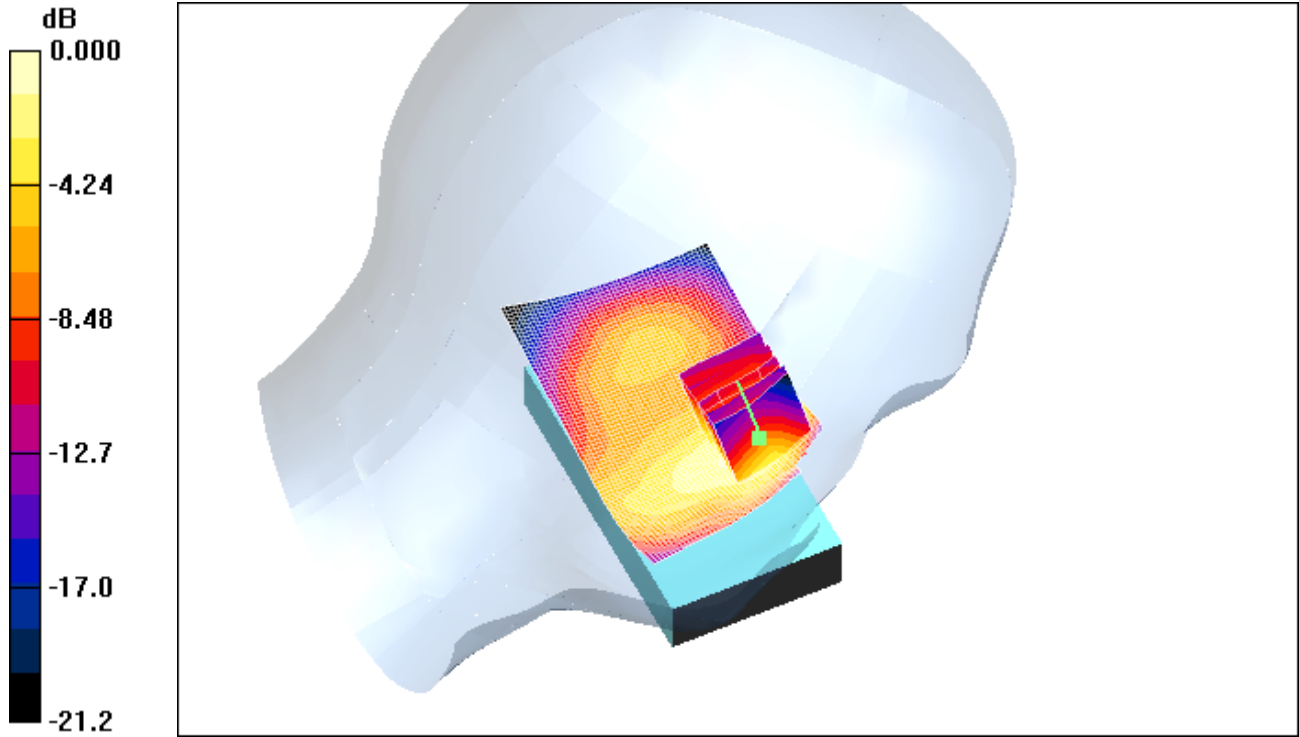
Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.726 mW/g; SAR(10 g) = 0.438 mW/g**

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

Maximum value of SAR (measured) = 0.811 mW/g

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0 dB = 0.811mW/g

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Date/Time: 06/05/2009 12:21:12 PM

Test Laboratory: RTS

File Name: [LeftHandSide\\_EDGE1900\\_mid\\_chan\\_amb\\_temp\\_22.8\\_liq\\_temp\\_21.9C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.42 \text{ mho/m}$ ;  $\epsilon_r = 38.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

DASY4 Configuration:

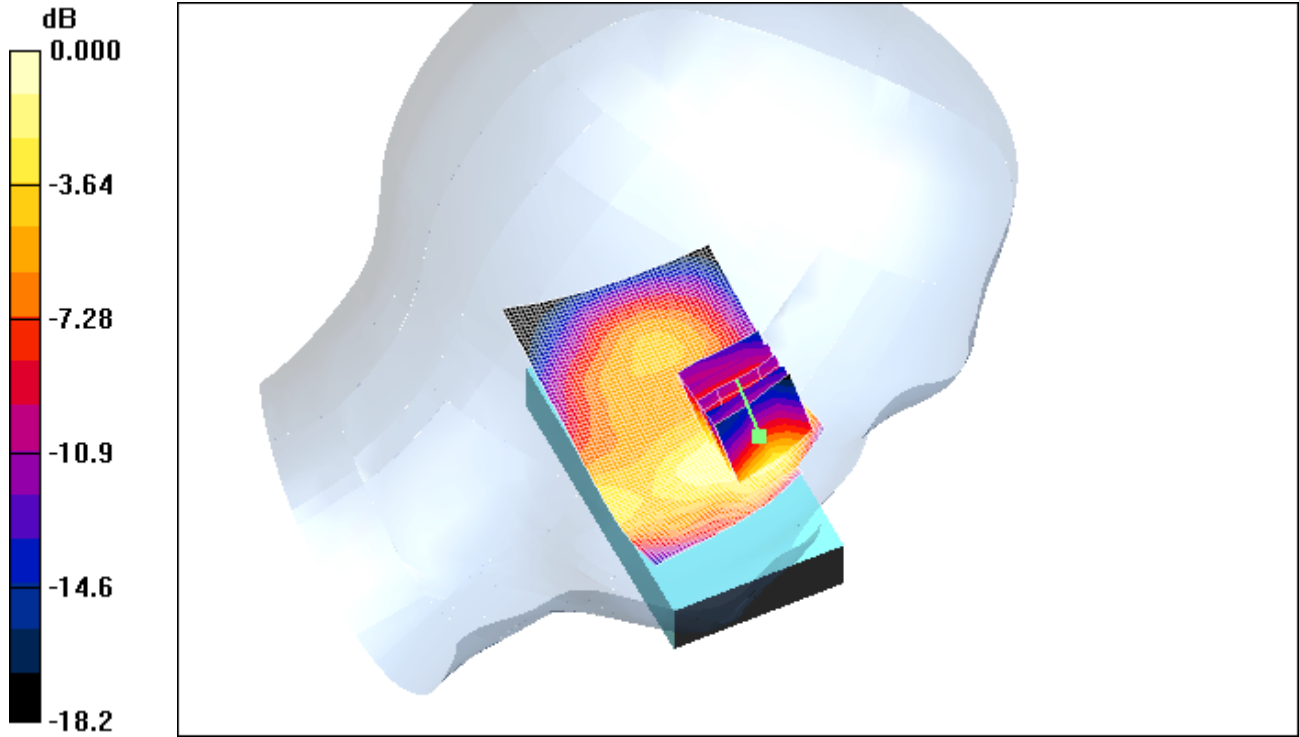
- Probe: ET3DV6 - SN1642; ConvF(5.14, 5.14, 5.14); Calibrated: 12/01/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build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

**Touch position -/Area Scan (51x81x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (interpolated) = 0.744 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 = 13.2 V/m; Power Drift = -0.101 dB  
Peak SAR (extrapolated) = 0.887 W/kg  
**SAR(1 g) = 0.639 mW/g; SAR(10 g) = 0.388 mW/g**  
Maximum value of SAR (measured) = 0.710 mW/g



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0 dB = 0.710mW/g

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Date/Time: 06/05/2009 1:37:29 PM

Test Laboratory: RTS

File Name: [LeftHandSide\\_EDGE1900\\_high\\_chan\\_amb\\_temp\\_22.5\\_liq\\_temp\\_21.7C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: EDGE 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

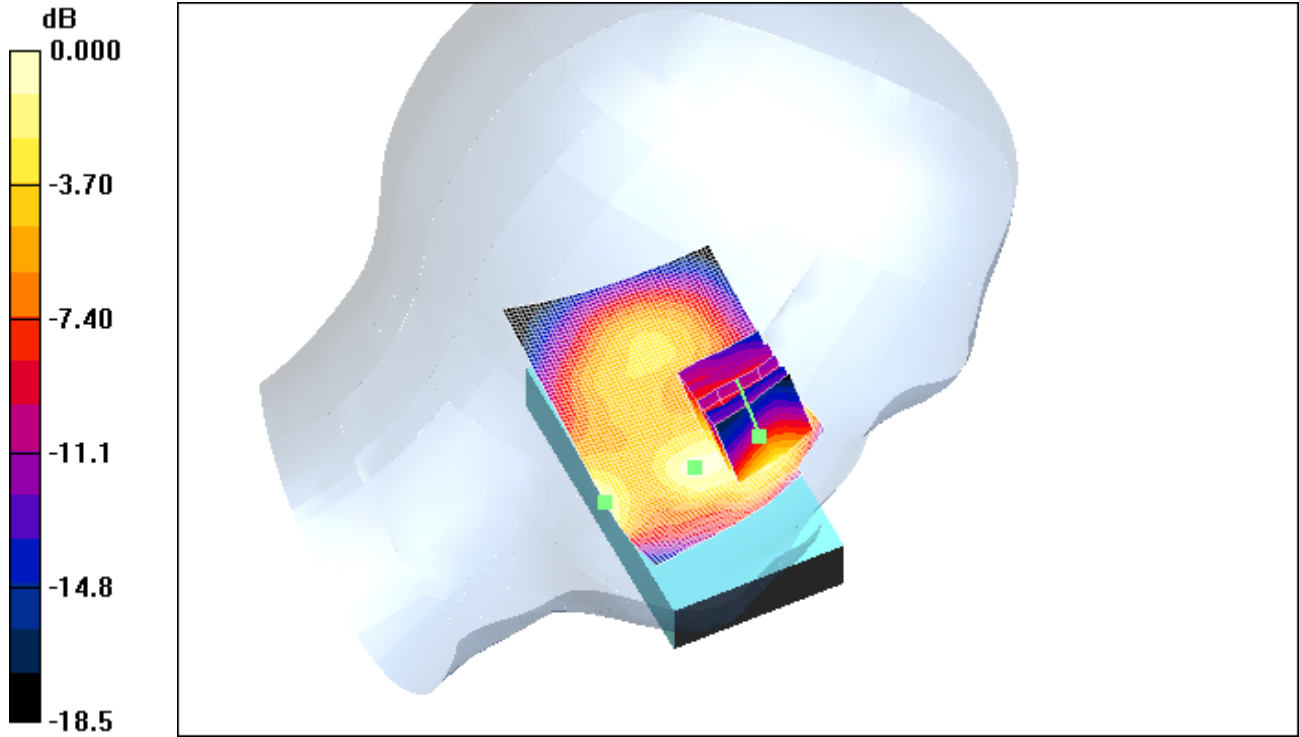
DASY4 Configuration:

- 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) = 0.622 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 14.1 V/m; Power Drift = 0.016 dB  
Peak SAR (extrapolated) = 0.777 W/kg  
**SAR(1 g) = 0.544 mW/g; SAR(10 g) = 0.326 mW/g**  
Maximum value of SAR (measured) = 0.603 mW/g

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0 dB = 0.603mW/g

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Date/Time: 06/05/2009 12:07:14 PM

Test Laboratory: RTS

File Name: [LeftHandSide\\_GSM1900\\_low\\_chan\\_amb\\_temp\\_22.7\\_liq\\_temp\\_21.6C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 38.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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

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

Maximum value of SAR (interpolated) = 0.915 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 14.0 V/m; Power Drift = -0.187 dB

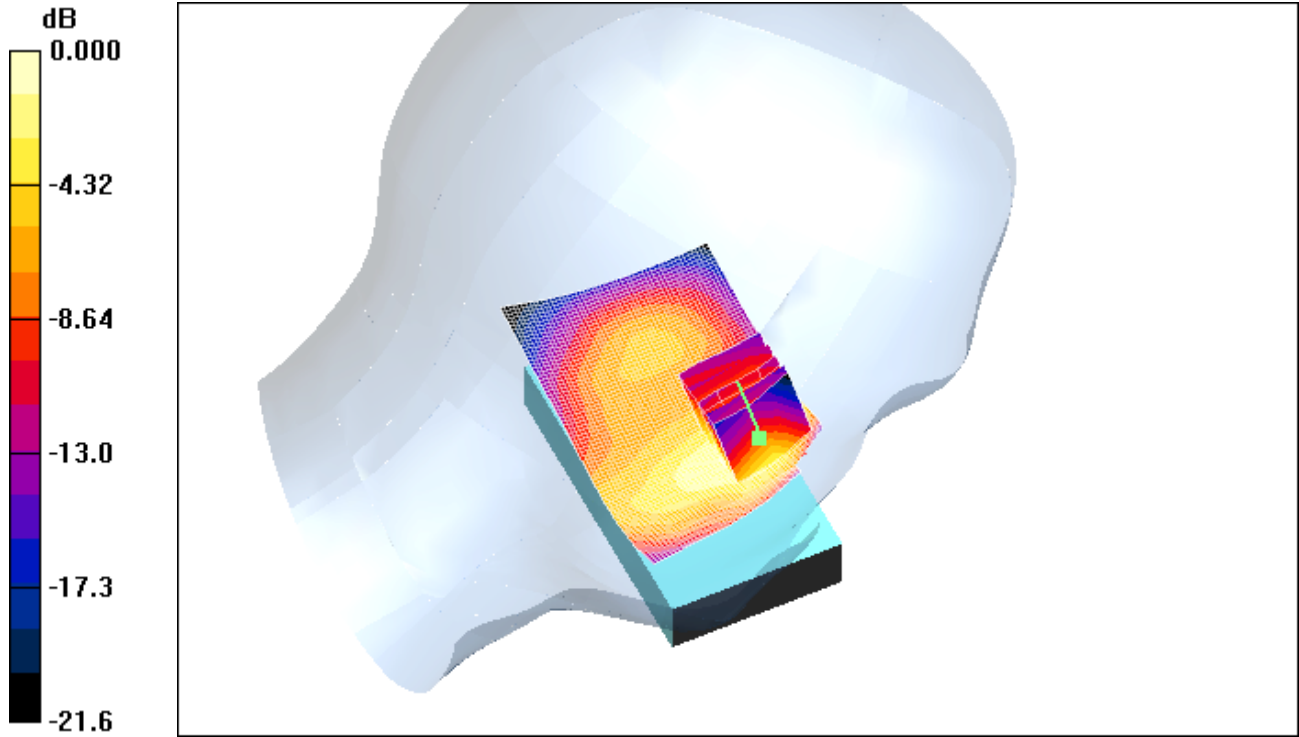
Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.798 mW/g; SAR(10 g) = 0.471 mW/g**

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

Maximum value of SAR (measured) = 0.895 mW/g

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0 dB = 0.895mW/g

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Date/Time: 06/05/2009 2:12:59 PM

Test Laboratory: RTS

File Name:

[LeftHandSide Tilt GSM1900 low chan amb temp 22.4 liq temp 21.5C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 38.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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

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

Maximum value of SAR (interpolated) = 0.726 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.6 V/m; Power Drift = 0.155 dB

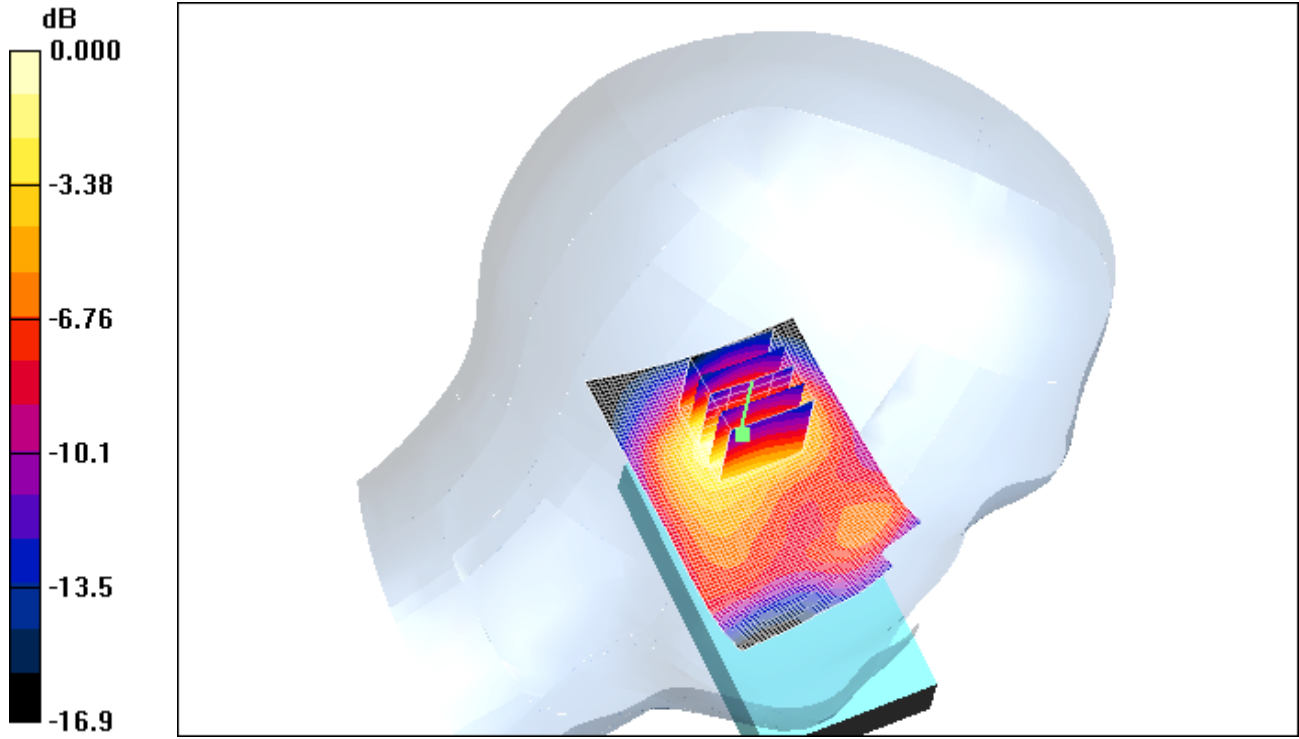
Peak SAR (extrapolated) = 0.908 W/kg

**SAR(1 g) = 0.613 mW/g; SAR(10 g) = 0.353 mW/g**

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

Maximum value of SAR (measured) = 0.683 mW/g

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0 dB = 0.683mW/g

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Date/Time: 06/05/2009 2:35:15 PM

Test Laboratory: RTS

File Name: [RightHandSide\\_GSM1900\\_low\\_chan\\_amb\\_temp\\_22.6\\_liq\\_temp\\_21.7C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 38.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.33 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.0 V/m; Power Drift = -0.144 dB

Peak SAR (extrapolated) = 1.80 W/kg

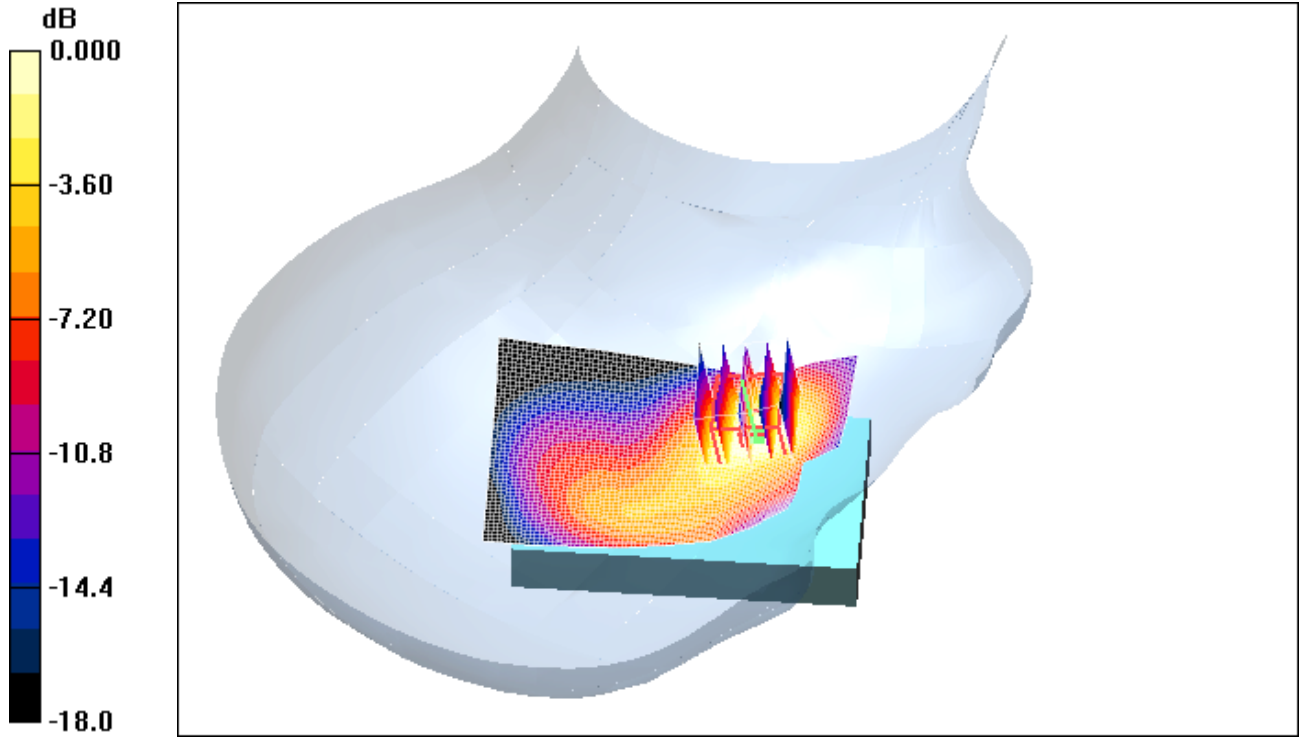
**SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.686 mW/g**

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

Maximum value of SAR (measured) = 1.36 mW/g



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0 dB = 1.36mW/g

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Date/Time: 06/05/2009 2:54:28 PM

Test Laboratory: RTS

File Name: [RightHandSide\\_GSM1900\\_mid\\_chan\\_amb\\_temp\\_22.3\\_liq\\_temp\\_21.5C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

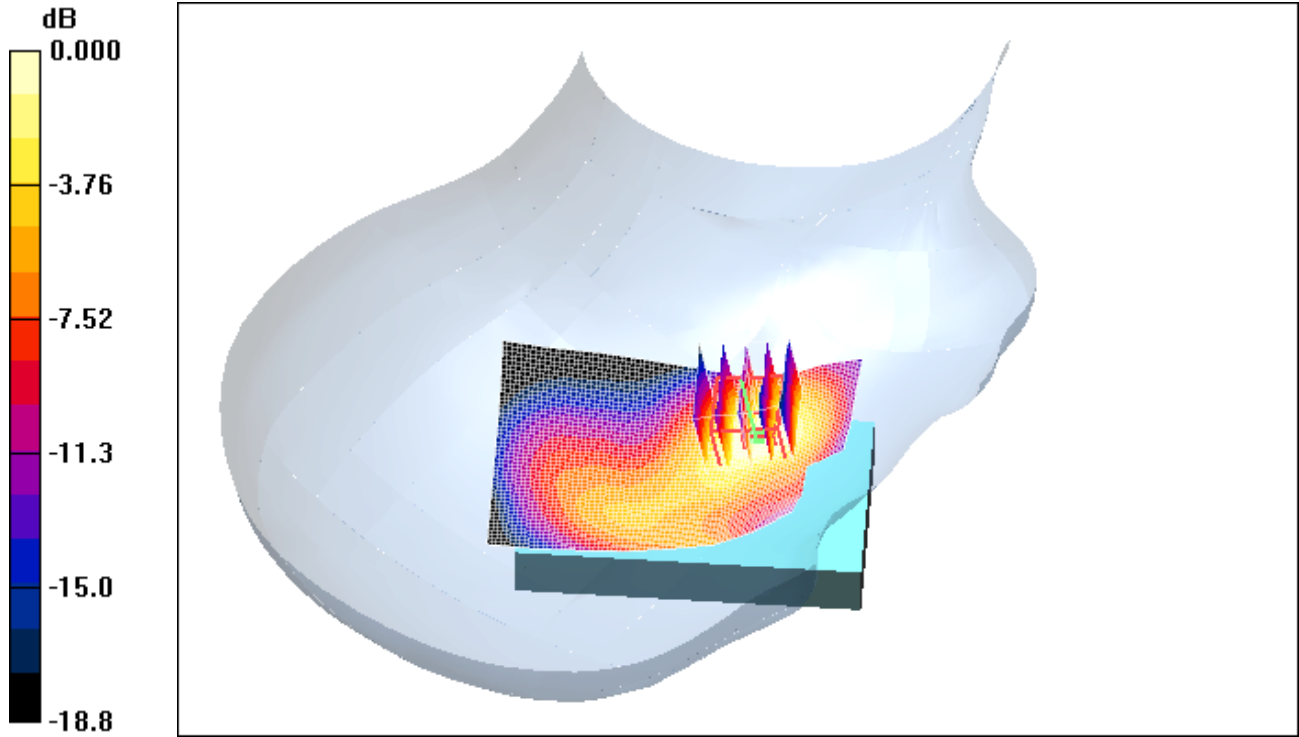
DASY4 Configuration:

- 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=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 1.22 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 12.9 V/m; Power Drift = 0.007 dB  
Peak SAR (extrapolated) = 1.66 W/kg  
**SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.611 mW/g**  
Maximum value of SAR (measured) = 1.22 mW/g

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0 dB = 1.22mW/g

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Date/Time: 06/05/2009 3:14:54 PM

Test Laboratory: RTS

File Name: [RightHandSide\\_GSM1900\\_high\\_chan\\_amb\\_temp\\_22.6\\_liq\\_temp\\_21.5C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

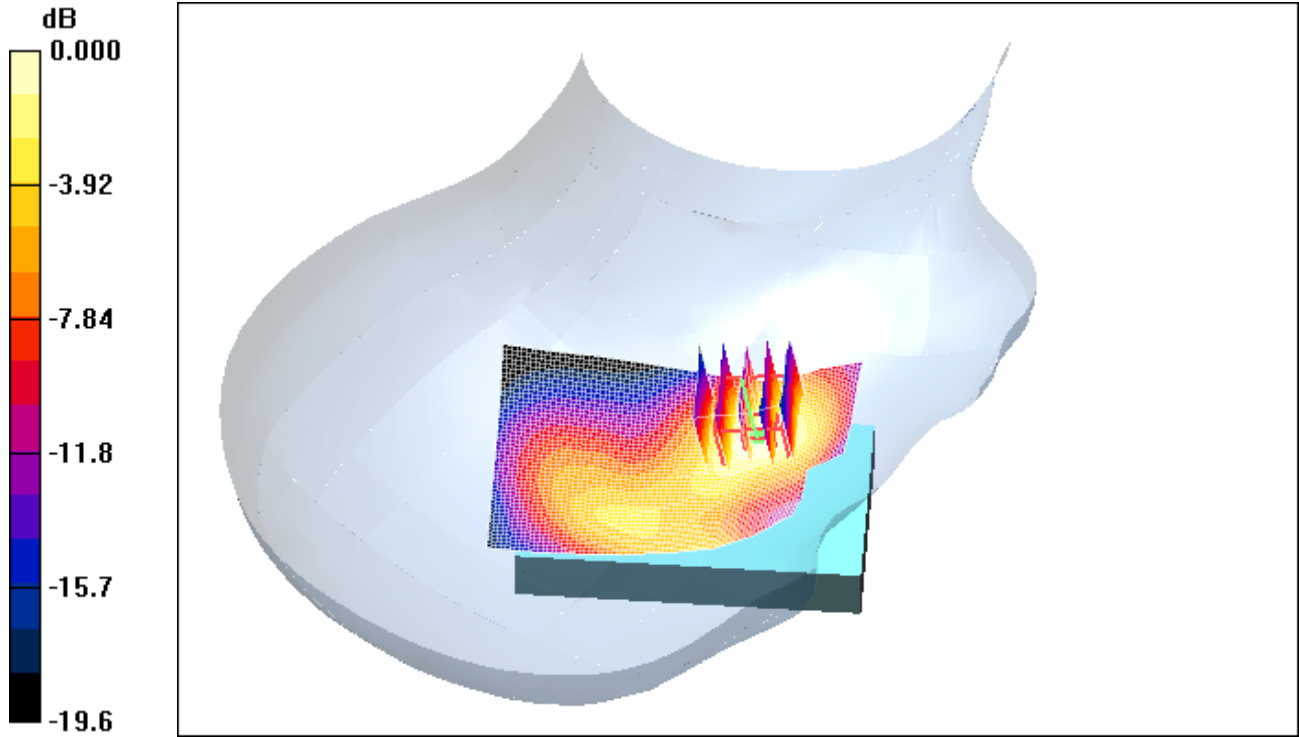
DASY4 Configuration:

- 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=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.919 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 13.2 V/m; Power Drift = -0.023 dB  
Peak SAR (extrapolated) = 1.31 W/kg  
**SAR(1 g) = 0.854 mW/g; SAR(10 g) = 0.470 mW/g**  
Maximum value of SAR (measured) = 0.957 mW/g

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0 dB = 0.957mW/g

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Date/Time: 06/05/2009 3:34:42 PM

Test Laboratory: RTS

File Name:

[RightHandSide\\_EDGE1900\\_low\\_chan\\_amb\\_temp\\_22.5\\_liq\\_temp\\_21.6C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: EDGE 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 38.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.13 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 = 0.122 dB

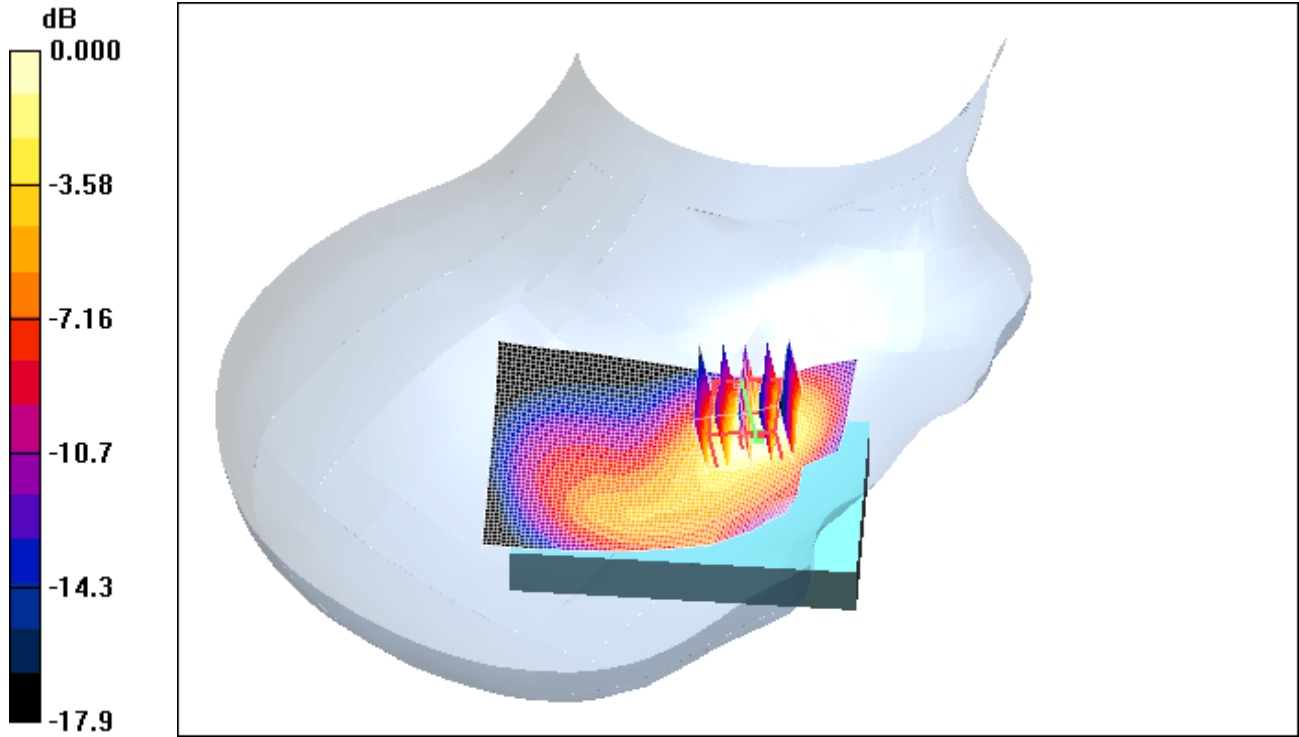
Peak SAR (extrapolated) = 1.54 W/kg

**SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.586 mW/g**

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

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

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0 dB = 1.17mW/g

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Date/Time: 06/05/2009 3:53:01 PM

Test Laboratory: RTS

File Name:

[RightHandSide Tilt GSM1900 low chan amb temp 22.4 liq temp 21.5C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20EB5E6A**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3  
Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 38.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.578 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.0 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 0.699 W/kg

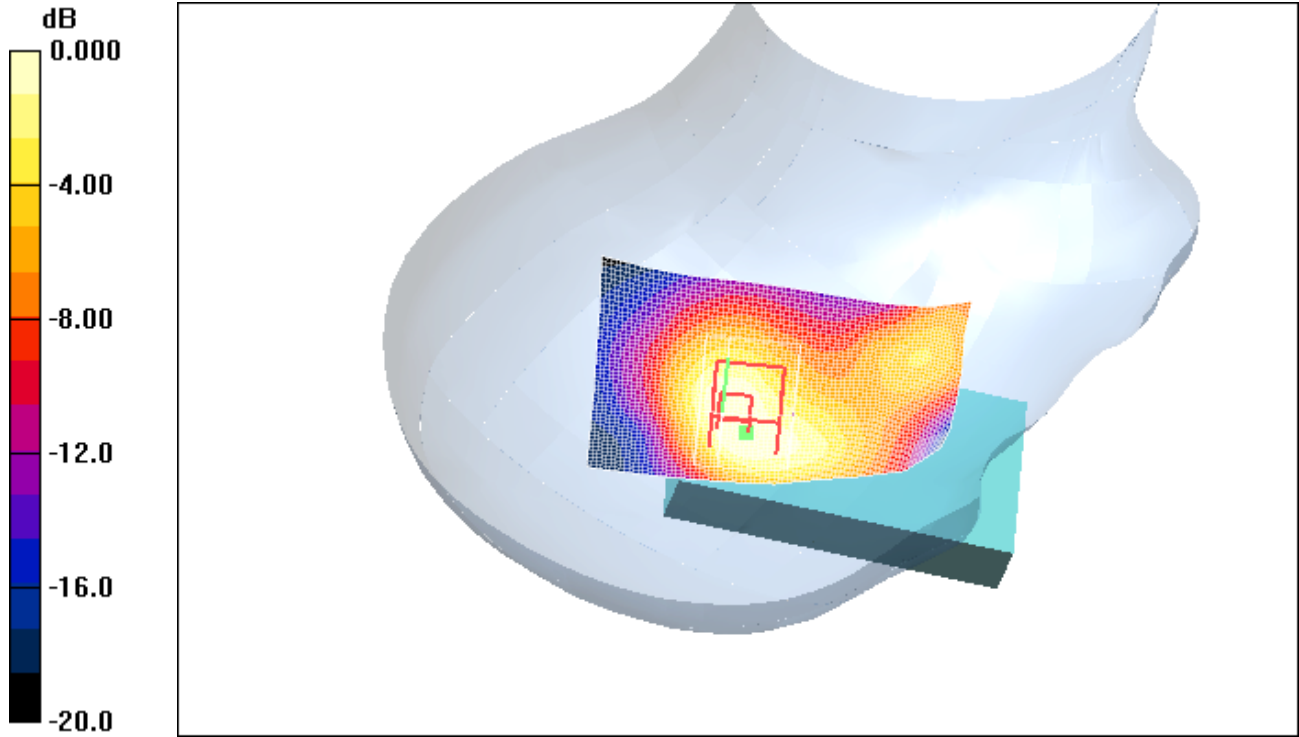
**SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.287 mW/g**

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

Maximum value of SAR (measured) = 0.496 mW/g



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0 dB = 0.496mW/g

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Date/Time: 07/04/2009 8:40:05 PM

Test Laboratory: RTS

File Name: [LeftHandSide\\_BT\\_mid\\_chan\\_amb\\_tem\\_24.1C\\_liq\\_tem\\_23.0C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20E44F5D**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.84$  mho/m;  $\epsilon_r = 37.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
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 Sn473; Calibrated: 09/01/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Touch position - Middle/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

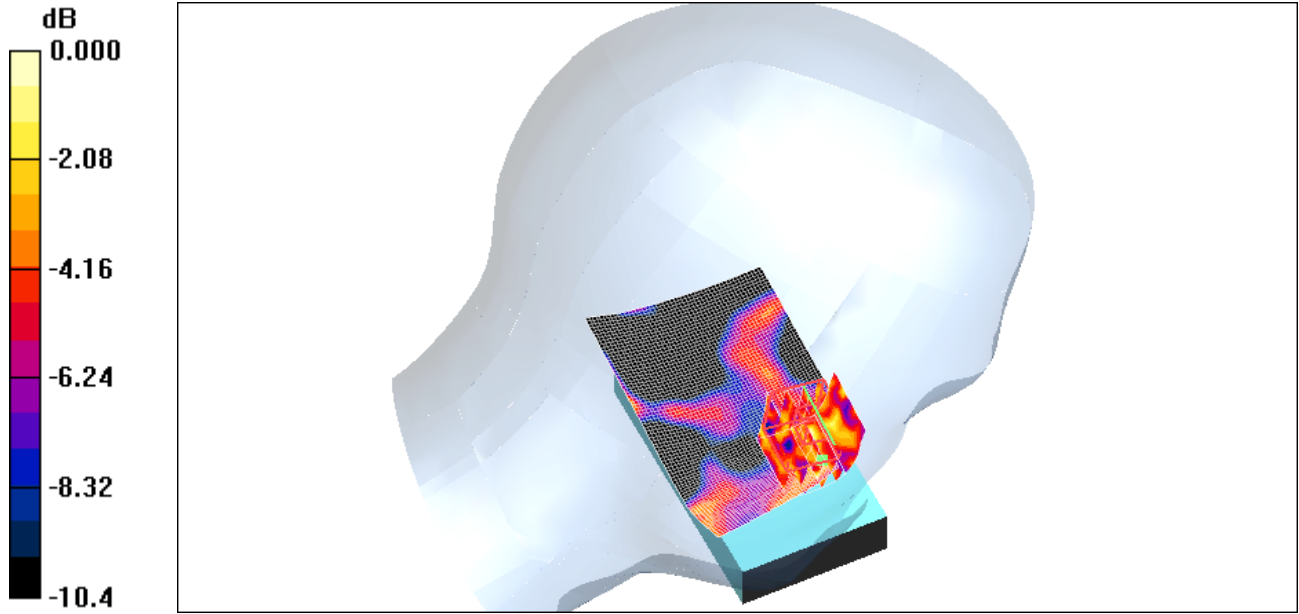
Maximum value of SAR (interpolated) = 0.007 mW/g

**Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 0.916 V/m; Power Drift = -2.05 dB  
Peak SAR (extrapolated) = 0.014 W/kg  
**SAR(1 g) = 0.0016 mW/g; SAR(10 g) = 0.000511 mW/g**

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

Maximum value of SAR (measured) = 0.009 mW/g

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0 dB = 0.009mW/g

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Date/Time: 07/04/2009 8:59:59 PM

Test Laboratory: RTS

File Name: [RightHandSide\\_BT\\_mid\\_chan\\_amb\\_temp\\_24.3\\_liq\\_temp\\_23.3C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20E44F5D**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2441$  MHz;  $\sigma = 1.84$  mho/m;  $\epsilon_r = 37.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/01/2009
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Touch position - Mid/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.004 mW/g

**Touch position - Mid/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 0.569 V/m; Power Drift = 4.59 dB

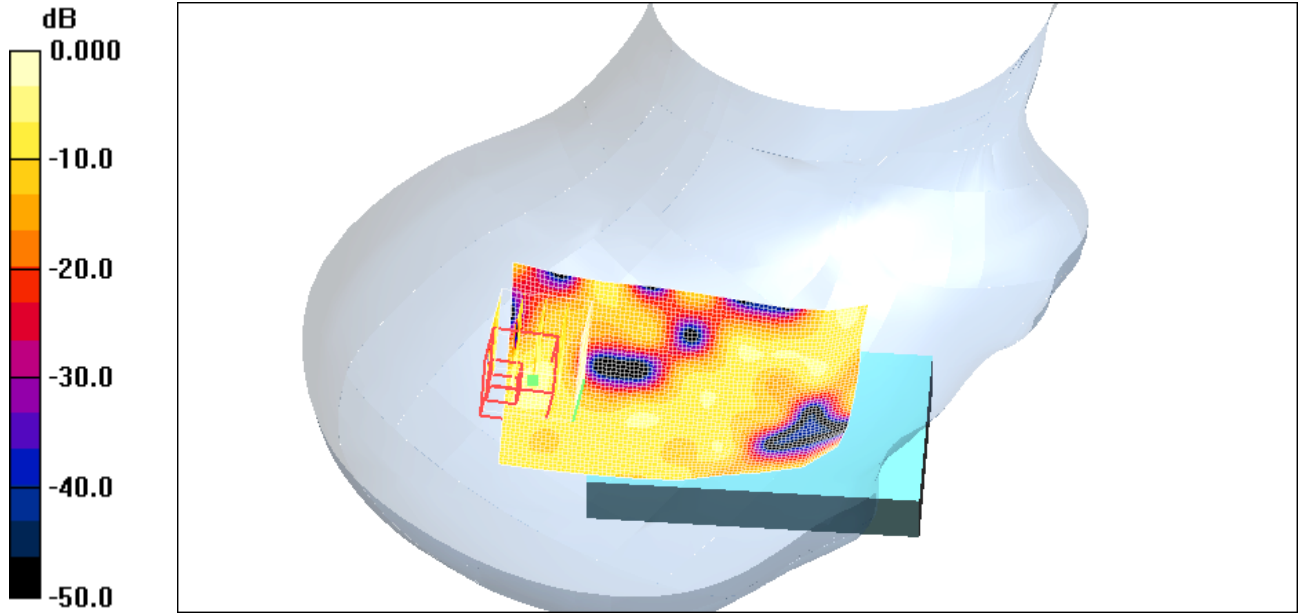
Peak SAR (extrapolated) = 0.022 W/kg

**SAR(1 g) = 0.000968 mW/g; SAR(10 g) = 0.000166 mW/g**

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

Maximum value of SAR (measured) = 0.014 mW/g

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0 dB = 0.014mW/g

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Date/Time: 02/04/2009 4:06:31 PM

Test Laboratory: RTS

File Name: [LeftHandSide\\_802.11b\\_low\\_chan\\_amb\\_tem\\_23.8C\\_liq\\_tem\\_23.2C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20E44F5D**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.79$  mho/m;  $\epsilon_r = 37.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Touch position - Low/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.153 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.53 V/m; Power Drift = -0.838 dB

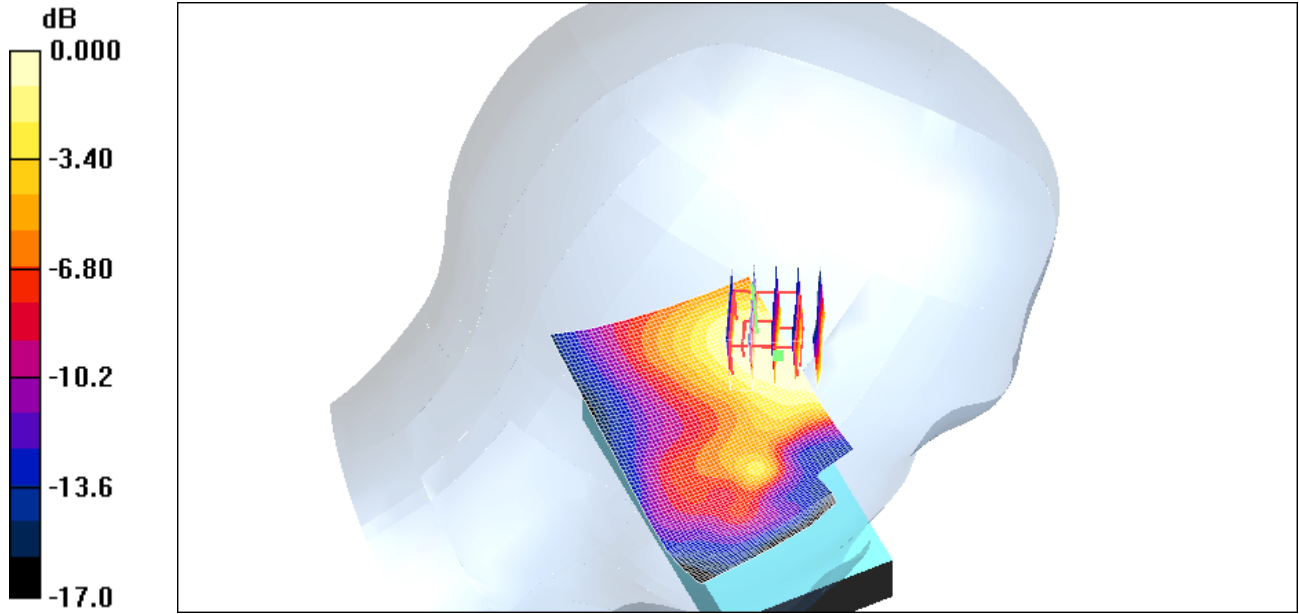
Peak SAR (extrapolated) = 0.264 W/kg

**SAR(1 g) = 0.139 mW/g; SAR(10 g) = 0.077 mW/g**

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

Maximum value of SAR (measured) = 0.146 mW/g

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0 dB = 0.146mW/g

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Date/Time: 02/04/2009 4:22:25 PM

Test Laboratory: RTS

File Name: [LeftHandSide\\_802.11b\\_mid\\_chan\\_amb\\_tem\\_23.3C\\_liq\\_tem\\_22.7C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20E44F5D**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 37.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Touch position - Mid/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.091 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.29 V/m; Power Drift = 0.343 dB

Peak SAR (extrapolated) = 0.164 W/kg

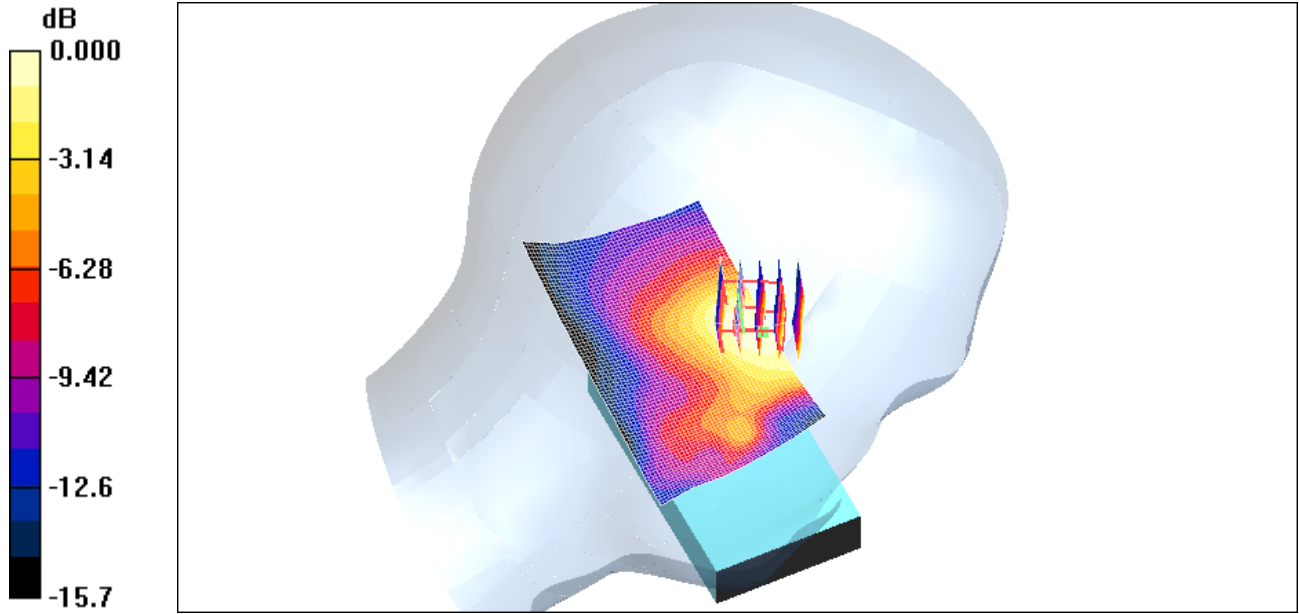
**SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.049 mW/g**

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

Maximum value of SAR (measured) = 0.094 mW/g



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0 dB = 0.094mW/g

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Date/Time: 02/04/2009 4:45:55 PM

Test Laboratory: RTS

File Name: [LeftHandSide\\_802.11b\\_high\\_chan\\_amb\\_tem\\_23.4C\\_liq\\_tem\\_22.8C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20E44F5D**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 37.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Touch position - High/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

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

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.33 V/m; Power Drift = 0.225 dB

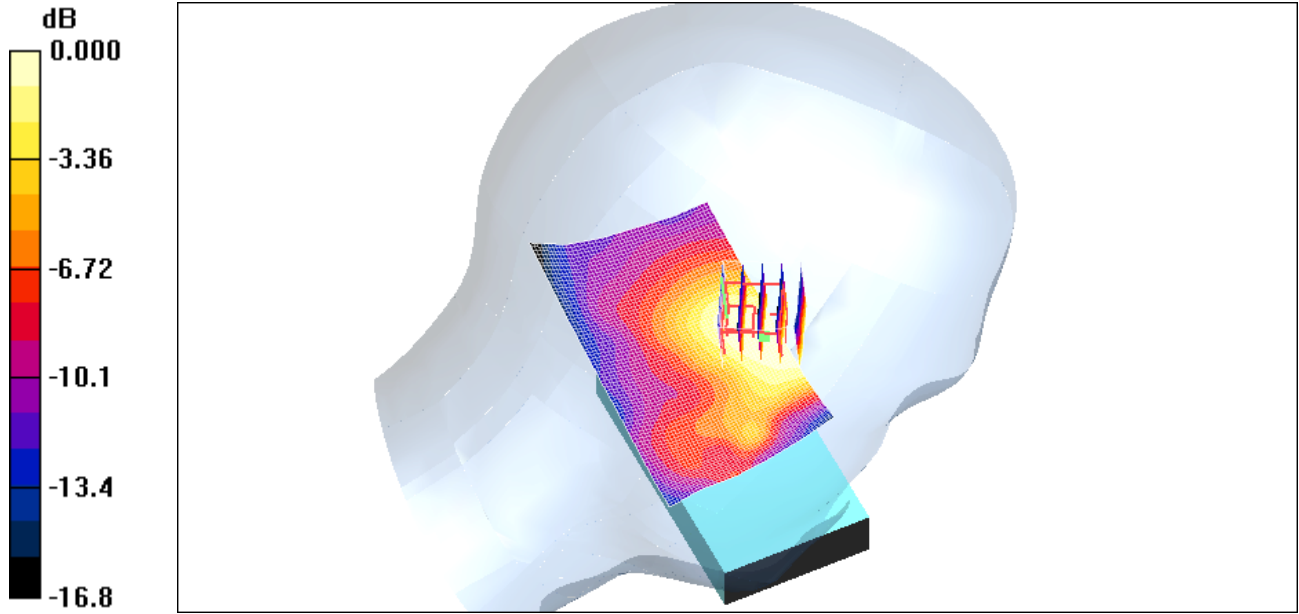
Peak SAR (extrapolated) = 0.144 W/kg

**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) = 0.078 mW/g

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0 dB = 0.078mW/g

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Date/Time: 02/04/2009 5:06:50 PM

Test Laboratory: RTS

File Name:

[LeftHandSide Tilt 802.11b low chan amb temp 23.4 liq temp 22.7C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20E44F5D**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.79$  mho/m;  $\epsilon_r = 37.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Tilt position - low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 6.10 V/m; Power Drift = -0.116 dB  
Peak SAR (extrapolated) = 0.202 W/kg  
**SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.051 mW/g**

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

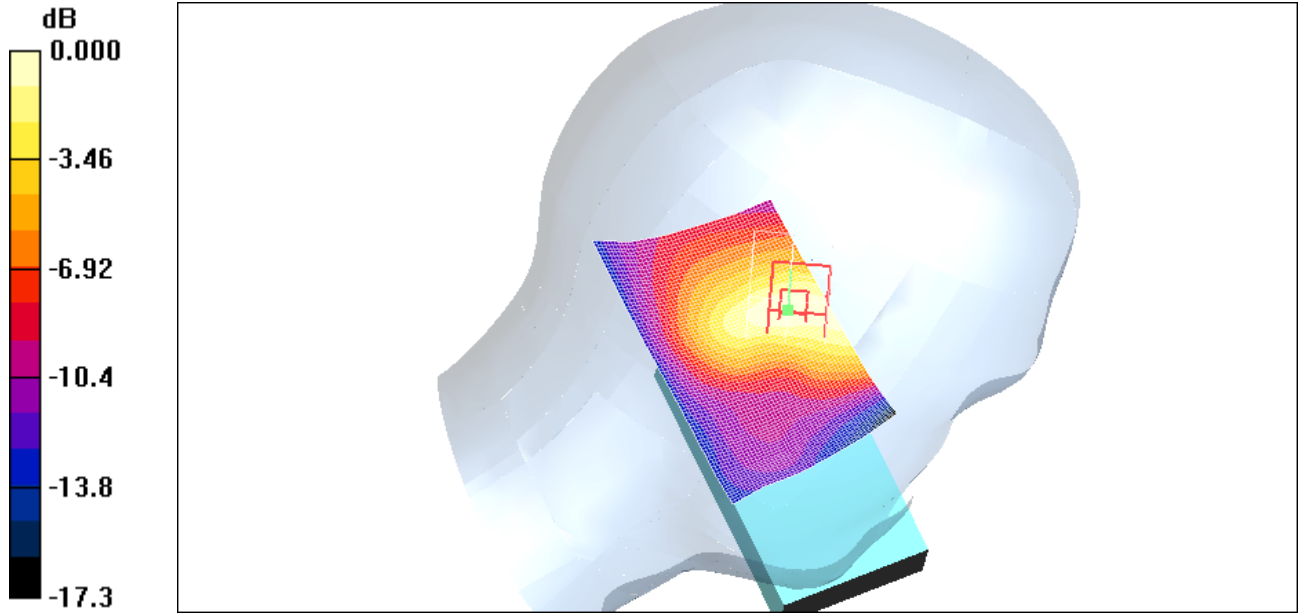
Maximum value of SAR (measured) = 0.105 mW/g

**Tilt position - low/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.104 mW/g

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0 dB = 0.104mW/g

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Date/Time: 02/04/2009 5:16:56 PM

Test Laboratory: RTS

File Name: [RightHandSide\\_802.11b\\_low\\_chan\\_amb\\_temp\\_23.4\\_liq\\_temp\\_23.0C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20E44F5D**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.79$  mho/m;  $\epsilon_r = 37.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- 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 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Touch position - Low/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.081 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.82 V/m; Power Drift = 0.203 dB

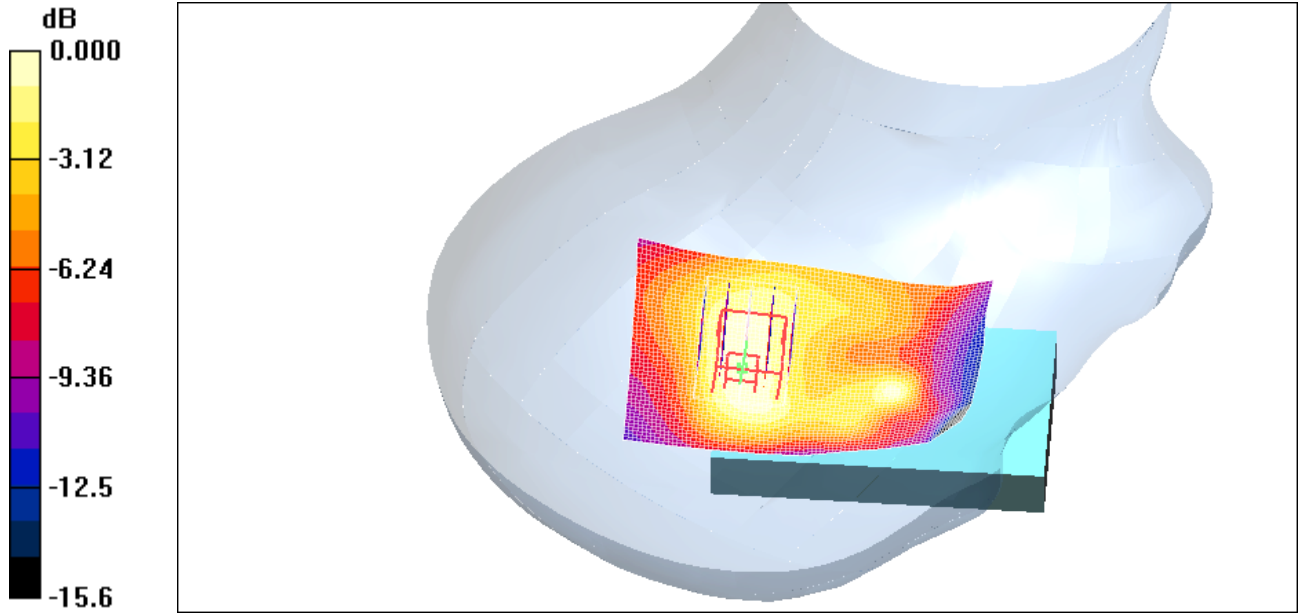
Peak SAR (extrapolated) = 0.135 W/kg

**SAR(1 g) = 0.076 mW/g; SAR(10 g) = 0.044 mW/g**

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

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

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0 dB = 0.085mW/g

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Date/Time: 02/04/2009 6:18:09 PM

Test Laboratory: RTS

File Name: [RightHandSide 802.11b mid chan amb temp 23.4 liq temp 22.9C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20E44F5D**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 37.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- 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 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Touch position - Mid/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.052 mW/g

**Touch position - Mid/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.66 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 0.086 W/kg

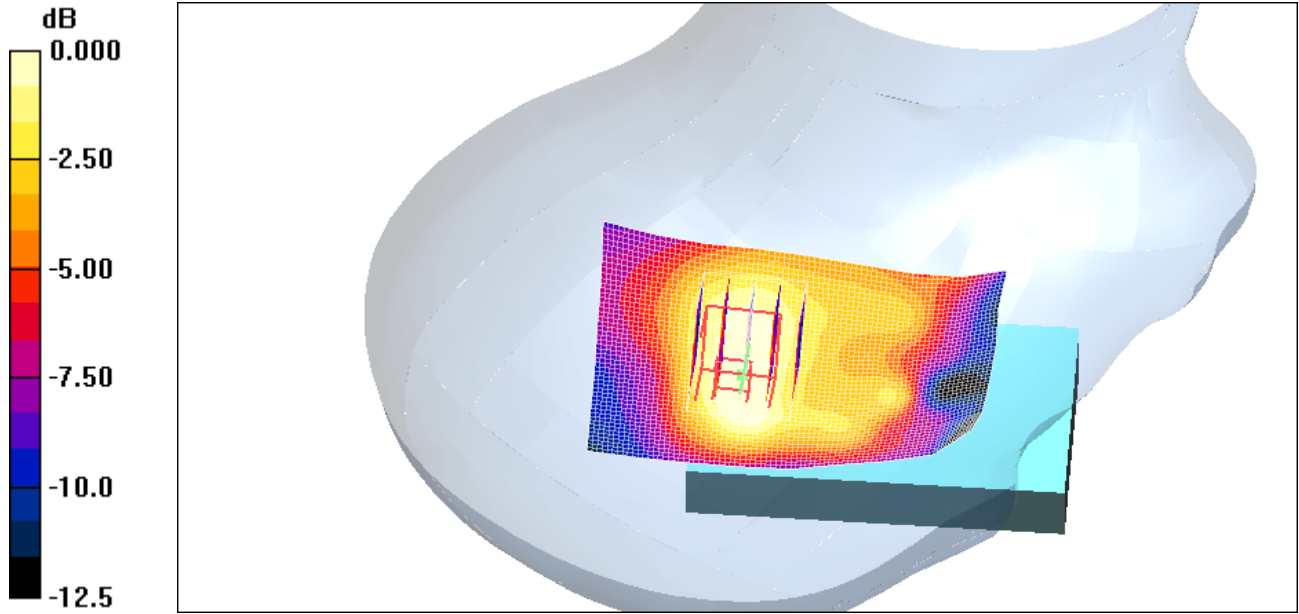
**SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.026 mW/g**

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

Maximum value of SAR (measured) = 0.051 mW/g



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0 dB = 0.051mW/g

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Date/Time: 02/04/2009 6:33:52 PM

Test Laboratory: RTS

File Name: [RightHandSide 802.11b high chan amb temp 22.9 liq temp 22.2C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20E44F5D**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 37.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- 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 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Touch position - High/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.047 mW/g

**Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.36 V/m; Power Drift = 0.089 dB

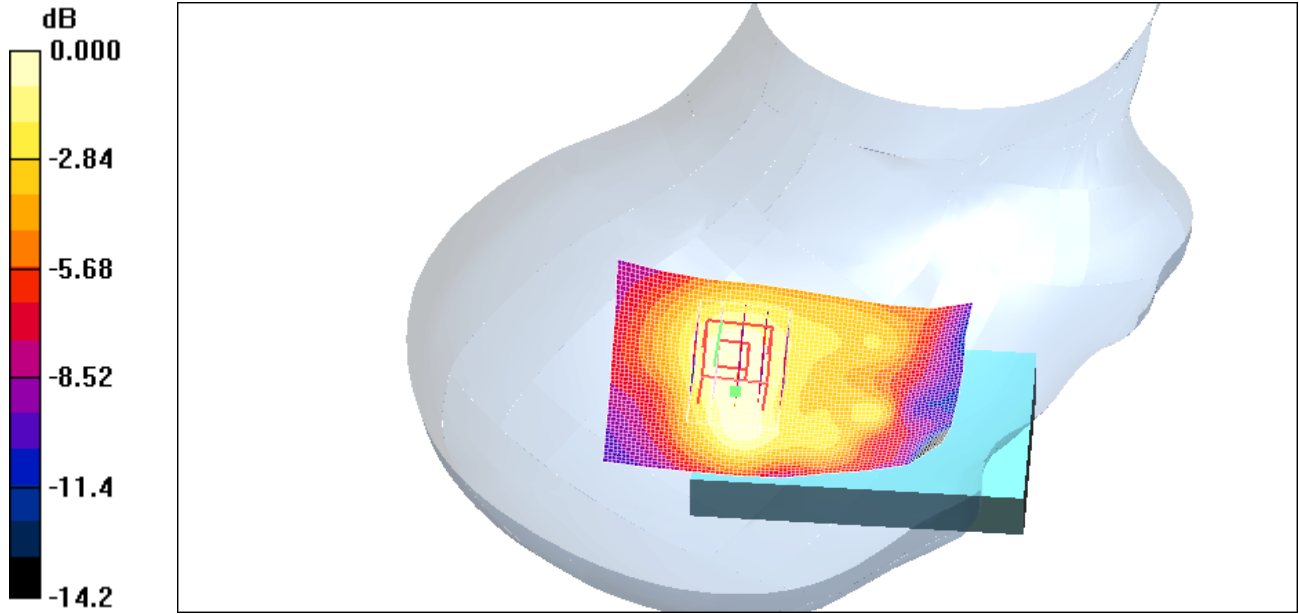
Peak SAR (extrapolated) = 0.092 W/kg

**SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.026 mW/g**

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

Maximum value of SAR (measured) = 0.049 mW/g

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0 dB = 0.049mW/g

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Date/Time: 02/04/2009 7:04:05 PM

Test Laboratory: RTS

File Name:

[RightHandSide Tilt 802.11b\\_low\\_chan\\_amb\\_temp\\_22.9\\_liq\\_temp\\_22.3C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20E44F5D**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.79$  mho/m;  $\epsilon_r = 37.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.52, 4.52, 4.52); Calibrated: 18/01/2008
- 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 71; Postprocessing SW: SEMCAD, V1.8 Build 184

**Tilt position - Low/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.081 mW/g

**Tilt position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.23 V/m; Power Drift = -0.138 dB

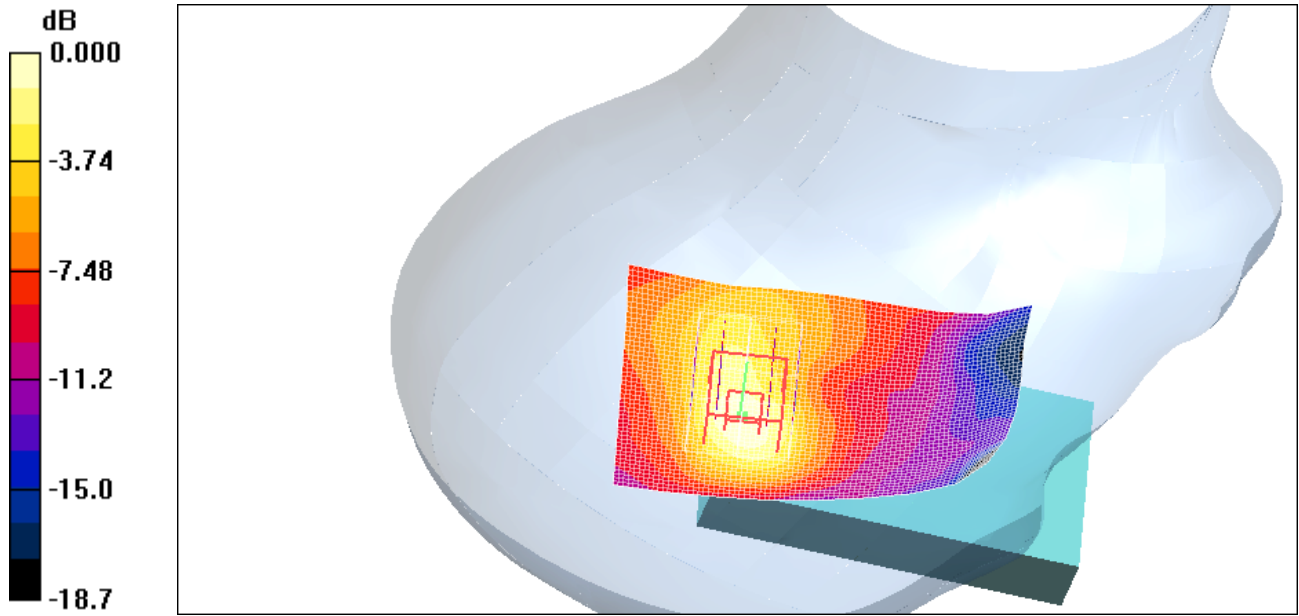
Peak SAR (extrapolated) = 0.129 W/kg

**SAR(1 g) = 0.072 mW/g; SAR(10 g) = 0.037 mW/g**

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

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

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0 dB = 0.084mW/g

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Date/Time: 20/05/2009 8:04:17 PM

Test Laboratory: RTS

File Name:

[LeftHandSide 802.11b Rev 3 low chan amb tem 22.8C liq tem 22.1C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20F3607B**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 37.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 - Low/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.259 mW/g

**Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.70 V/m; Power Drift = 0.017 dB

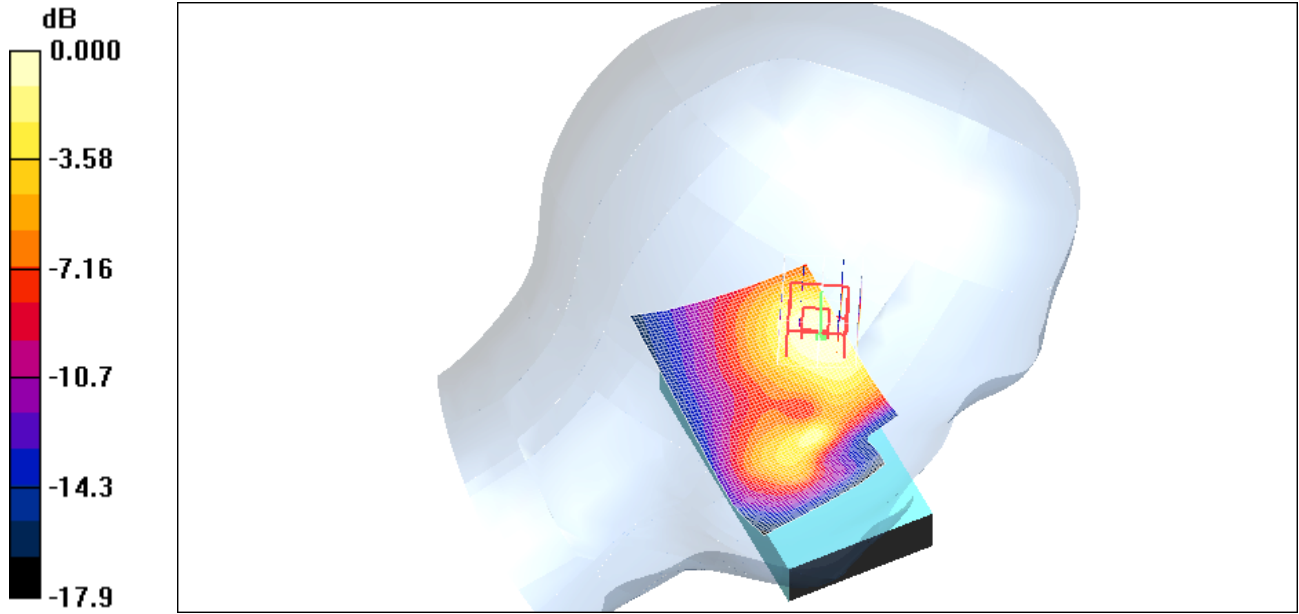
Peak SAR (extrapolated) = 0.458 W/kg

**SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.128 mW/g**

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

Maximum value of SAR (measured) = 0.253 mW/g

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0 dB = 0.253mW/g

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Date/Time: 20/05/2009 8:22:00 PM

Test Laboratory: RTS

File Name:

[LeftHandSide 802.11b Rev 3 mid chan amb tem 22.5C liq tem 22.0C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20F3607B**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 37.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 - Middle/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.322 mW/g

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

grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.80 V/m; Power Drift = -0.096 dB

Peak SAR (extrapolated) = 0.784 W/kg

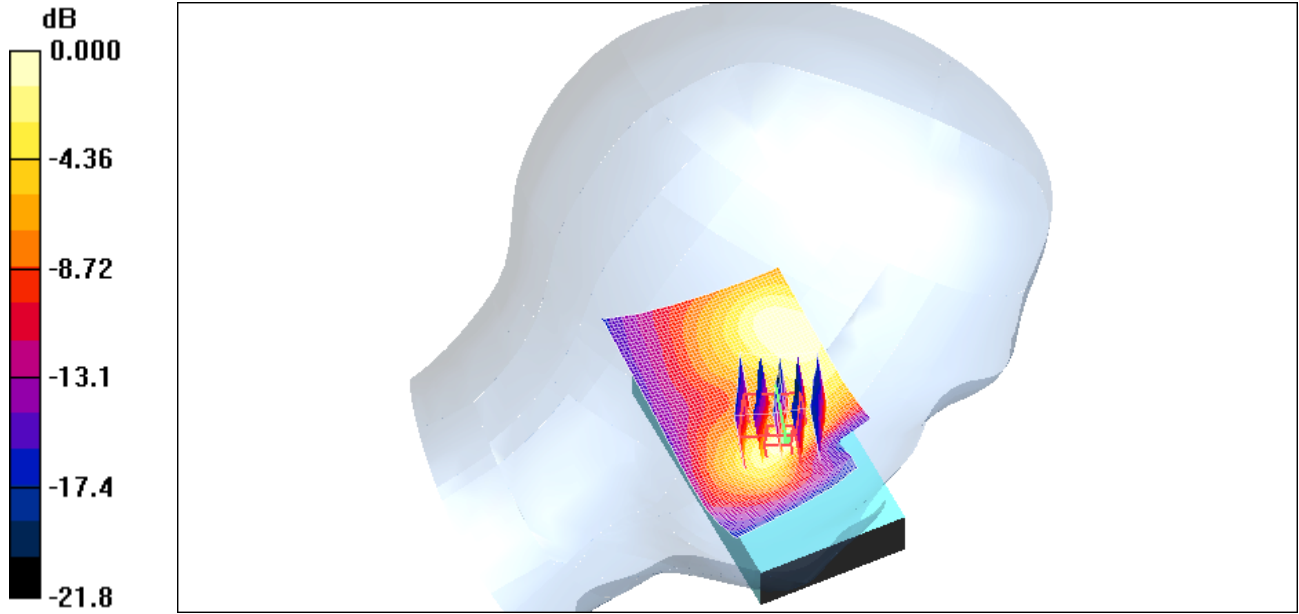
**SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.084 mW/g**

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

Maximum value of SAR (measured) = 0.297 mW/g



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0 dB = 0.297mW/g

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Date/Time: 20/05/2009 8:38:51 PM

Test Laboratory: RTS

File Name:

[LeftHandSide 802.11b Rev 3 high chan amb tem 22.3C liq tem 21.7C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20F3607B**  
**Program Name: Compliance Testing: P1528 Protocol (Left -Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.86$  mho/m;  $\epsilon_r = 37.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 - High/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.306 mW/g

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.07 V/m; Power Drift = 0.000 dB

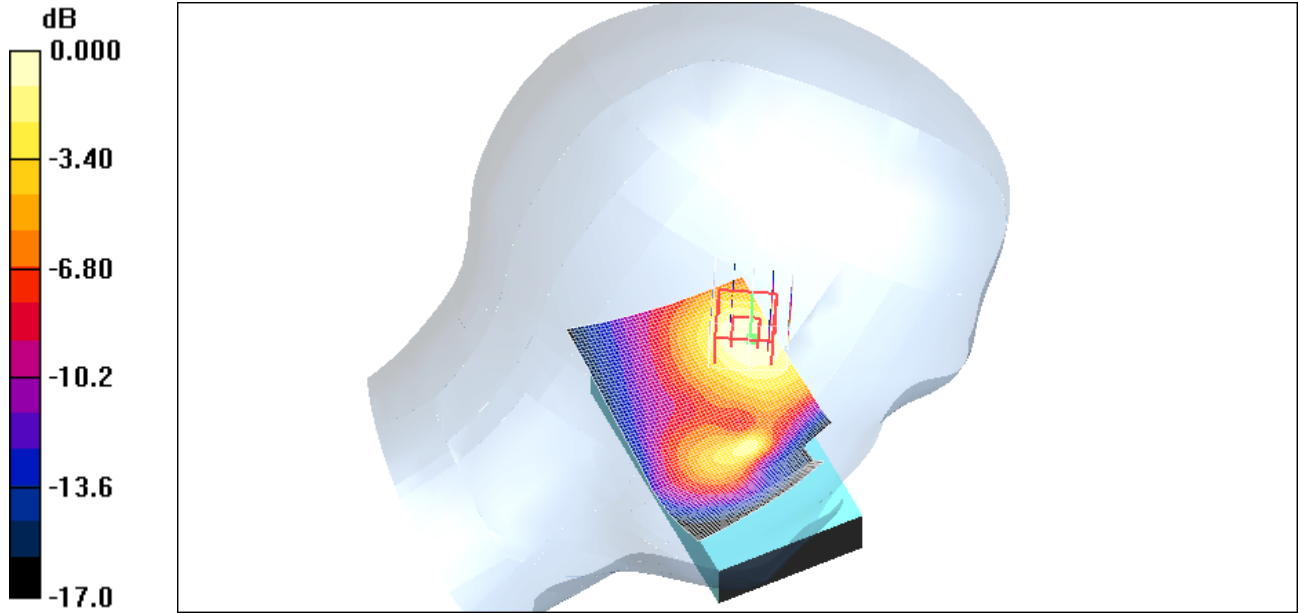
Peak SAR (extrapolated) = 0.547 W/kg

**SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.156 mW/g**

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

Maximum value of SAR (measured) = 0.314 mW/g

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0 dB = 0.314mW/g

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Date/Time: 20/05/2009 8:54:21 PM

Test Laboratory: RTS

File Name:

[RightHandSide 802.11b Rev 3 high chan amb temp 22.3 liq temp 21.8C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 20F3607B**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: 802.11 b (2450); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.86$  mho/m;  $\epsilon_r = 37.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

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 - High/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm

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

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

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

dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.25 V/m; Power Drift = -0.150 dB

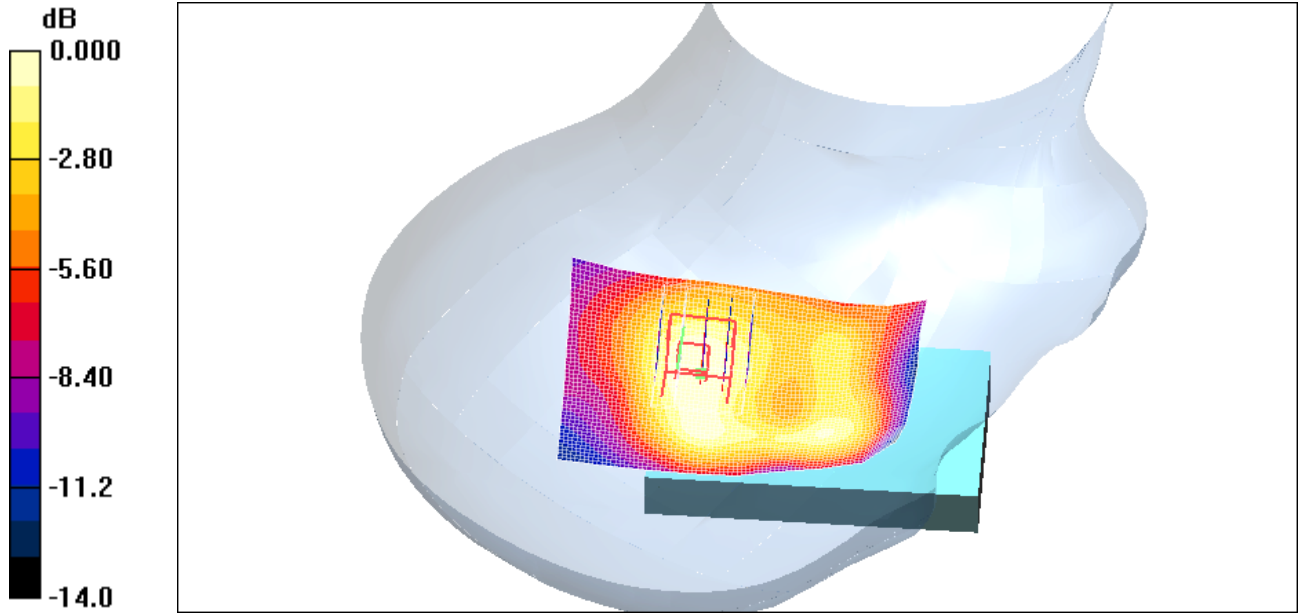
Peak SAR (extrapolated) = 0.209 W/kg

**SAR(1 g) = 0.113 mW/g; SAR(10 g) = 0.064 mW/g**

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

Maximum value of SAR (measured) = 0.117 mW/g

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0 dB = 0.117mW/g

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**Z axis plot for the worst case head configuration:**

