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

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Date/Time: 3/16/2010 10:43:21 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_EDGE850\\_high\\_chan\\_Amb\\_Tem\\_22.5\\_Liq\\_Tem\\_21.1\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21FA2D14**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: EDGE 850 (2slots); Frequency: 848.8 MHz; Duty Cycle: 1:4.2  
Medium parameters used (interpolated):  $f = 848.8 \text{ MHz}$ ;  $\sigma = 0.87 \text{ mho/m}$ ;  $\epsilon_r = 42.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(6.08, 6.08, 6.08); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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) = 1.26 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 = -0.168 dB

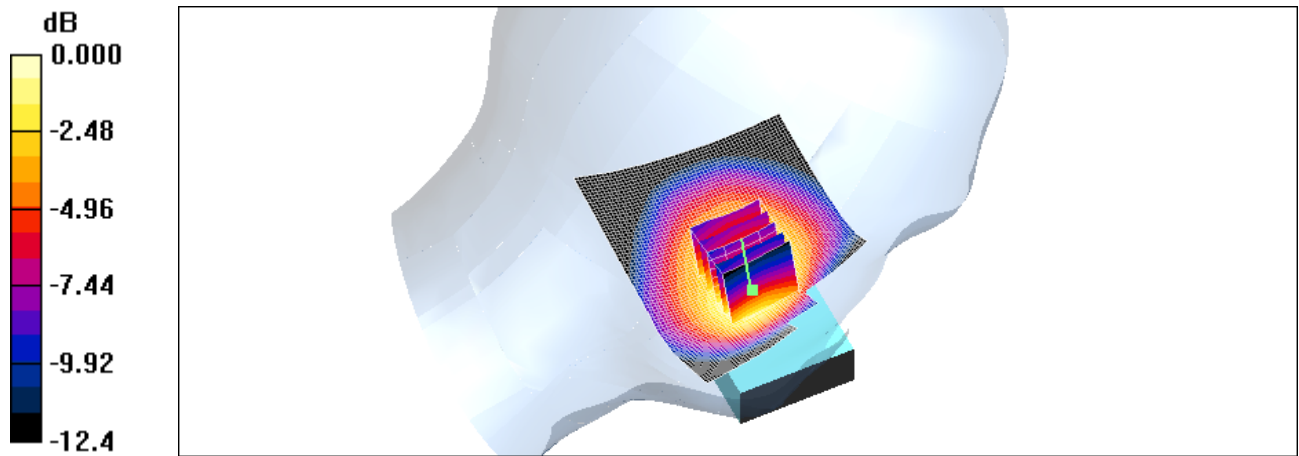
Peak SAR (extrapolated) = 1.64 W/kg

**SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.790 mW/g**


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

Maximum value of SAR (measured) = 1.26 mW/g

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0 dB = 1.26mW/g

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Date/Time: 3/16/2010 11:21:38 AM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_UMTS\\_Band\\_V\\_high\\_chan\\_Amb\\_Tem\\_22.6\\_Liq\\_Tem\\_21.0C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21FA2D14**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.867$  mho/m;  $\epsilon_r = 42.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(6.08, 6.08, 6.08); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 1.16 mW/g

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

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


Reference Value = 13.6 V/m; Power Drift = -0.105 dB

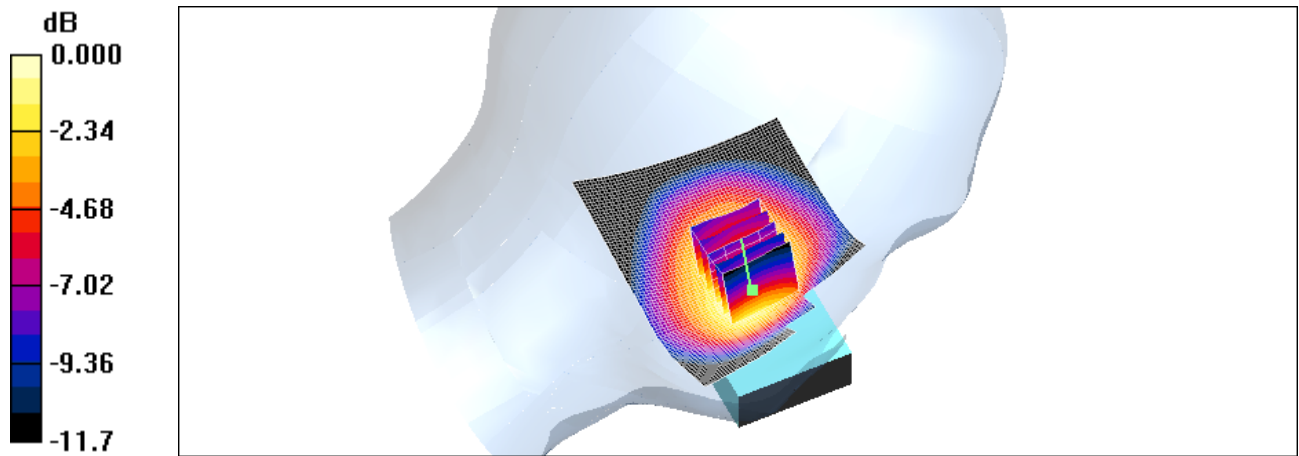
Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.742 mW/g**


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

Maximum value of SAR (measured) = 1.16 mW/g

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0 dB = 1.16mW/g

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Date/Time: 3/16/2010 9:35:29 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[LeftHandSide\\_EDGE1900\\_mid\\_chan\\_Amb\\_Tem\\_22.5\\_Liq\\_Tem\\_21.3\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21FA2D14**  
**Program Name: Compliance Testing: P1528 Protocol (Left-Hand Side)**


Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Left Section

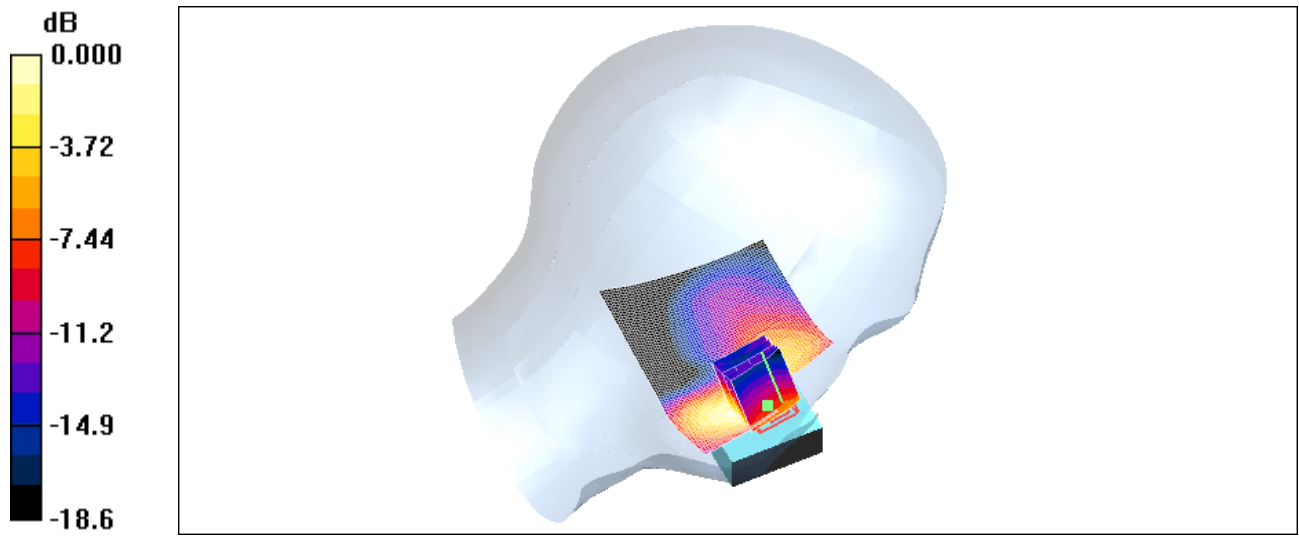
DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.17, 5.17, 5.17); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.415 mW/g

**Touch position -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 3.37 V/m; Power Drift = 0.004 dB  
Peak SAR (extrapolated) = 0.719 W/kg  
**SAR(1 g) = 0.388 mW/g; SAR(10 g) = 0.198 mW/g**  
Maximum value of SAR (measured) = 0.436 mW/g

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0 dB = 0.436mW/g

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Date/Time: 3/16/2010 8:41:13 PM

Test Laboratory: RIM TESTING SERVICES

File Name:

[RightHandSide\\_UMTS\\_band\\_II\\_mid\\_chan\\_Amb\\_Tem\\_22.3\\_Liq\\_Tem\\_21.1C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21FA2D14**  
**Program Name: Compliance Testing: P1528 Protocol (Right-Hand Side)**

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.17, 5.17, 5.17); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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) = 0.617 mW/g

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


Reference Value = 4.52 V/m; Power Drift = -0.056 dB

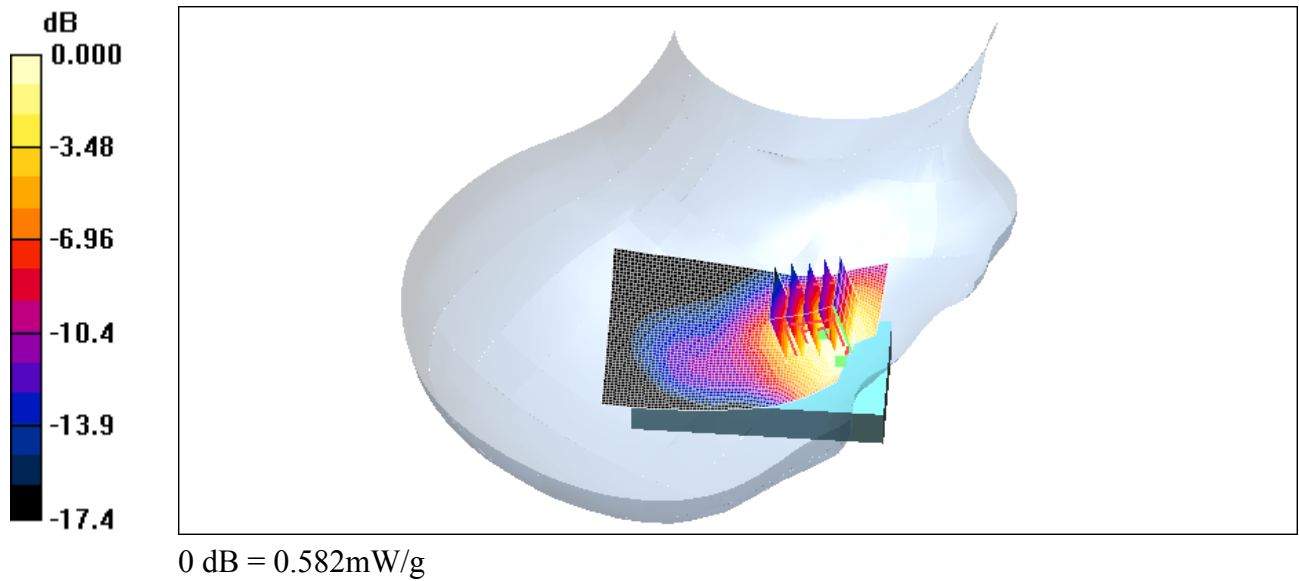
Peak SAR (extrapolated) = 0.827 W/kg


**SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.298 mW/g**

Maximum value of SAR (measured) = 0.582 mW/g



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Test Laboratory: RIM TESTING SERVICES

File Name: [LeftHandSide\\_802.11b\\_low\\_chan\\_Amb\\_Tem\\_23.0\\_Liq\\_Tem\\_21.2\\_C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21FA2D14**  
**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;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.597 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 = -0.030 dB

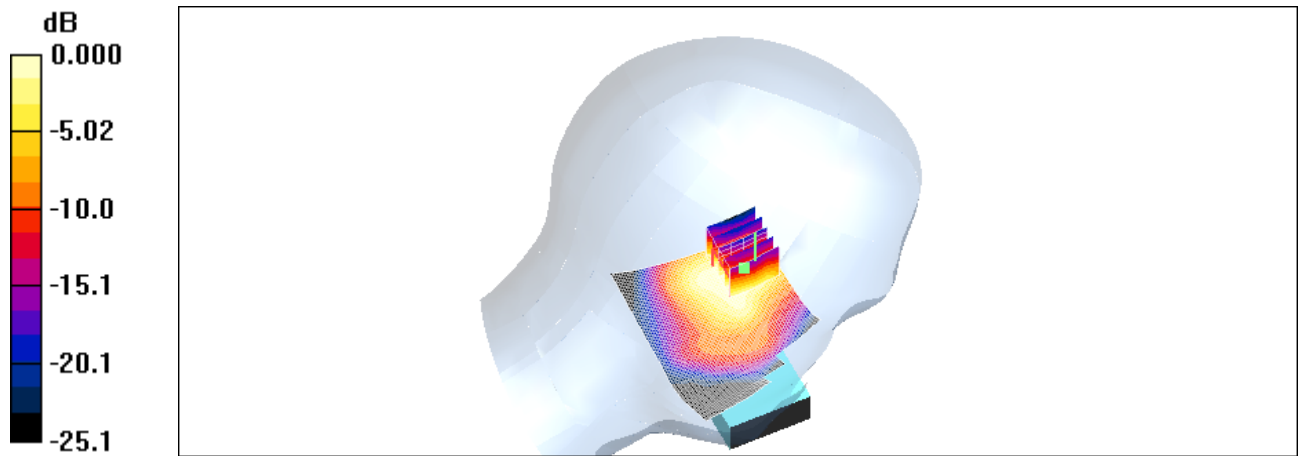
Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.449 mW/g; SAR(10 g) = 0.223 mW/g**


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

Maximum value of SAR (measured) = 0.485 mW/g

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0 dB = 0.485mW/g

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File Name: [RightHandSide\\_802.11b\\_low\\_chan\\_Amb\\_Tem\\_23.1\\_Liq\\_Tem\\_21.2C.da4](#)

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 21FA2D14**  
**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;  $\sigma = 1.83$  mho/m;  $\epsilon_r = 38.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(4.5, 4.5, 4.5); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- 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) = 0.386 mW/g

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


Reference Value = 14.7 V/m; Power Drift = -0.070 dB

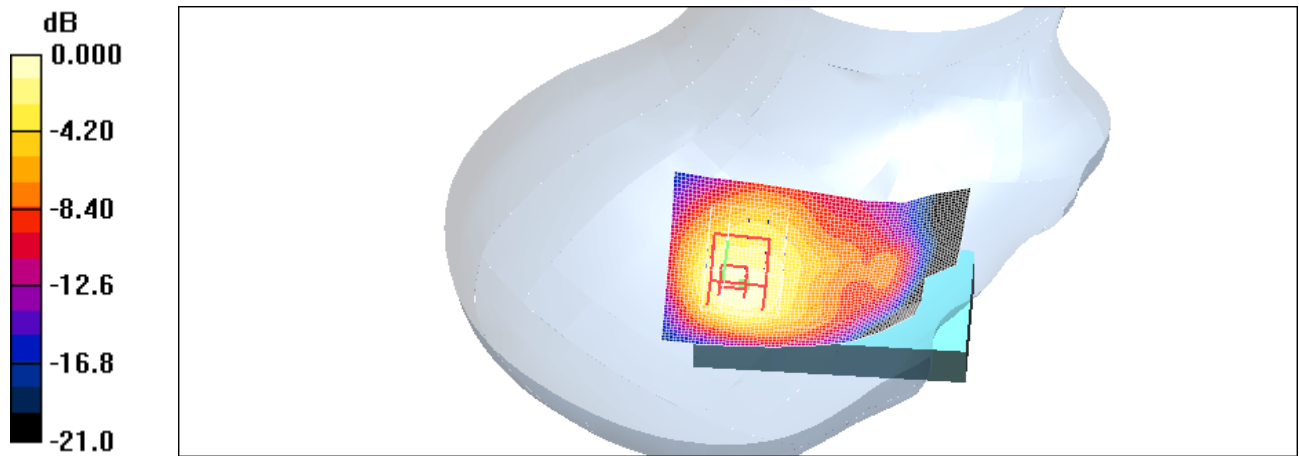
Peak SAR (extrapolated) = 0.692 W/kg

**SAR(1 g) = 0.376 mW/g; SAR(10 g) = 0.196 mW/g**


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

Maximum value of SAR (measured) = 0.403 mW/g

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0 dB = 0.403mW/g

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

