

RTS RIM Testing Services	Document Appendices for the BlackBerry Wireless Handheld Model RBP41GW SAR Report		Page 1(82)
Author Data Daoud Attayi	Dates of Test Feb. 05-27, 2007	Test Report No RTS-0628-0702-08	FCC ID: L6ARBP40GW

APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

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Date/Time: 05/02/2007 4:18:11 PM

Test Laboratory: RTS

DipoleValidation_835MHz_Amb_Tem_25_2_Liq_Tem_23_7_deg_cel

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

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.905 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

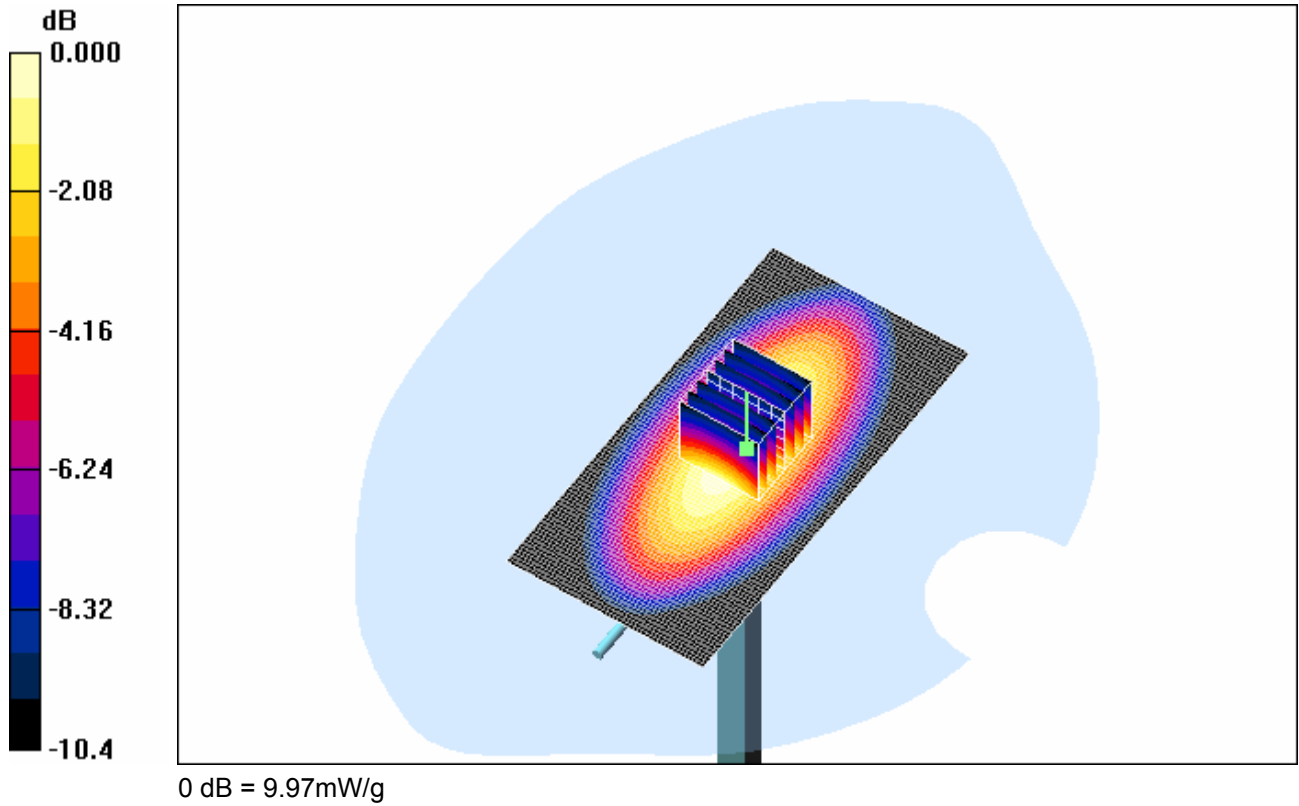
DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 18/01/2007
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 108.9 V/m; Power Drift = -0.074 dB
Peak SAR (extrapolated) = 13.7 W/kg
SAR(1 g) = 9.22 mW/g; SAR(10 g) = 6.01 mW/g
Maximum value of SAR (measured) = 9.97 mW/g

d=15mm, Pin=1000mW/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 9.93 mW/g

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Date/Time: 07/02/2007 8:49:45 AM

Test Laboratory: RTS

DipoleValidation_835MHz_Amb_Tem_25_2_Liq_Tem_23_2_deg_cel_02_07_07

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

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.905 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 18/01/2007
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 110.3 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 14.2 W/kg

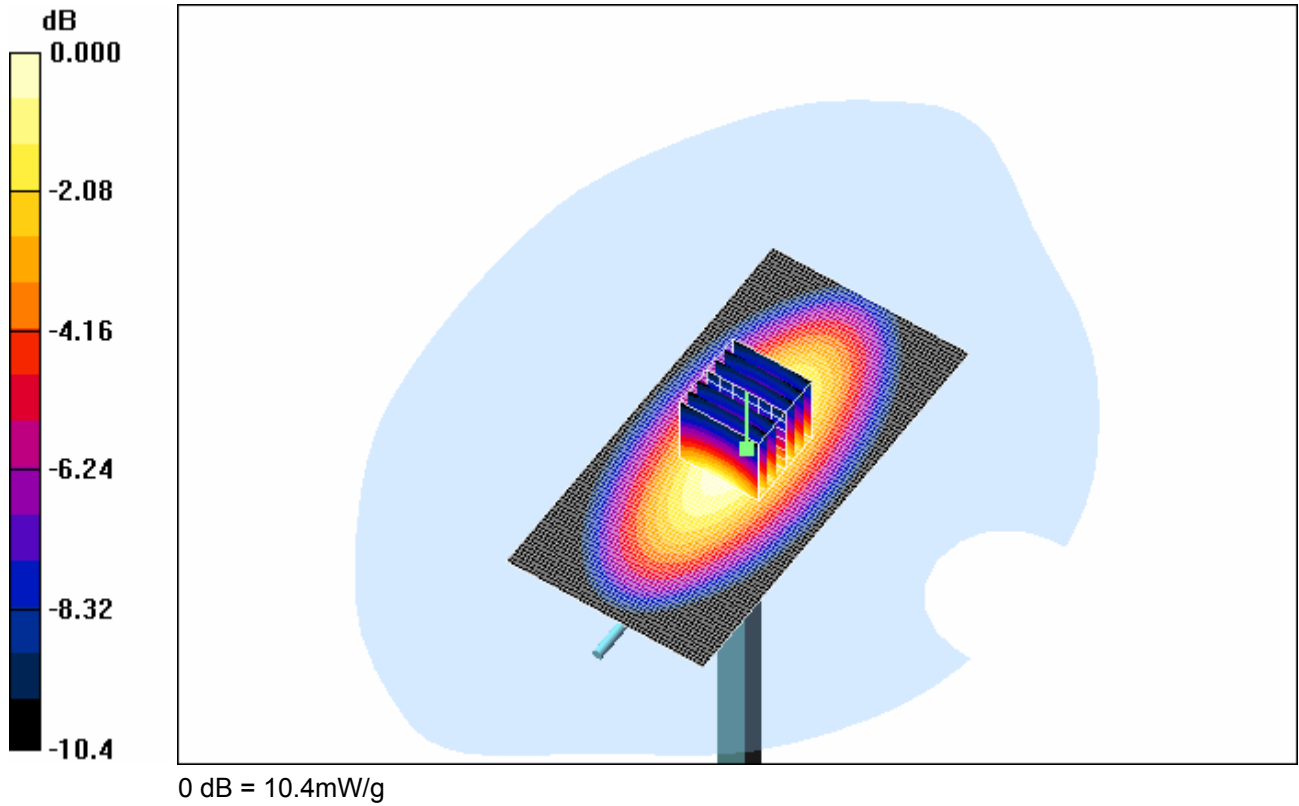
SAR(1 g) = 9.57 mW/g; SAR(10 g) = 6.25 mW/g

Maximum value of SAR (measured) = 10.4 mW/g

d=15mm, Pin=1000mW/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.5 mW/g

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Date/Time: 27/02/2007 12:15:58 PM

Test Laboratory: RTS

DipoleValidation_835MHz_Amb_Tem_24_9_Liq_Tem_23_8_C

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

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.895 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(6.43, 6.43, 6.43); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 18/01/2007
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 109.0 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 14.0 W/kg

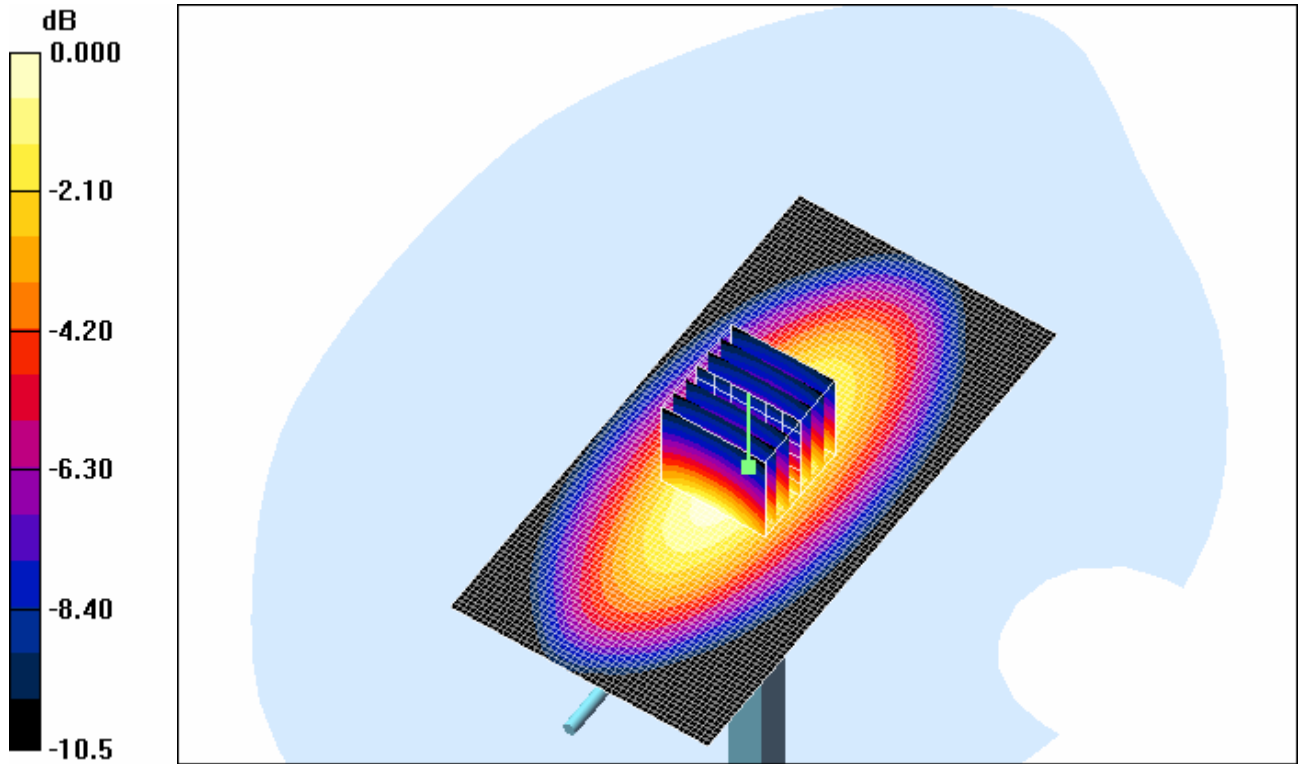
SAR(1 g) = 9.31 mW/g; SAR(10 g) = 6.05 mW/g

Maximum value of SAR (measured) = 10.1 mW/g

d=15mm, Pin=1000mW/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 10.0 mW/g

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0 dB = 10.1mW/g

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Date/Time: 07/02/2007 3:23:21 PM

Test Laboratory: RTS

DipoleValidation_1900MHz_Amb_Tem_24_7_Liq_Tem_23_6_deg_cel

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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 18/01/2007
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 181.3 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 69.2 W/kg

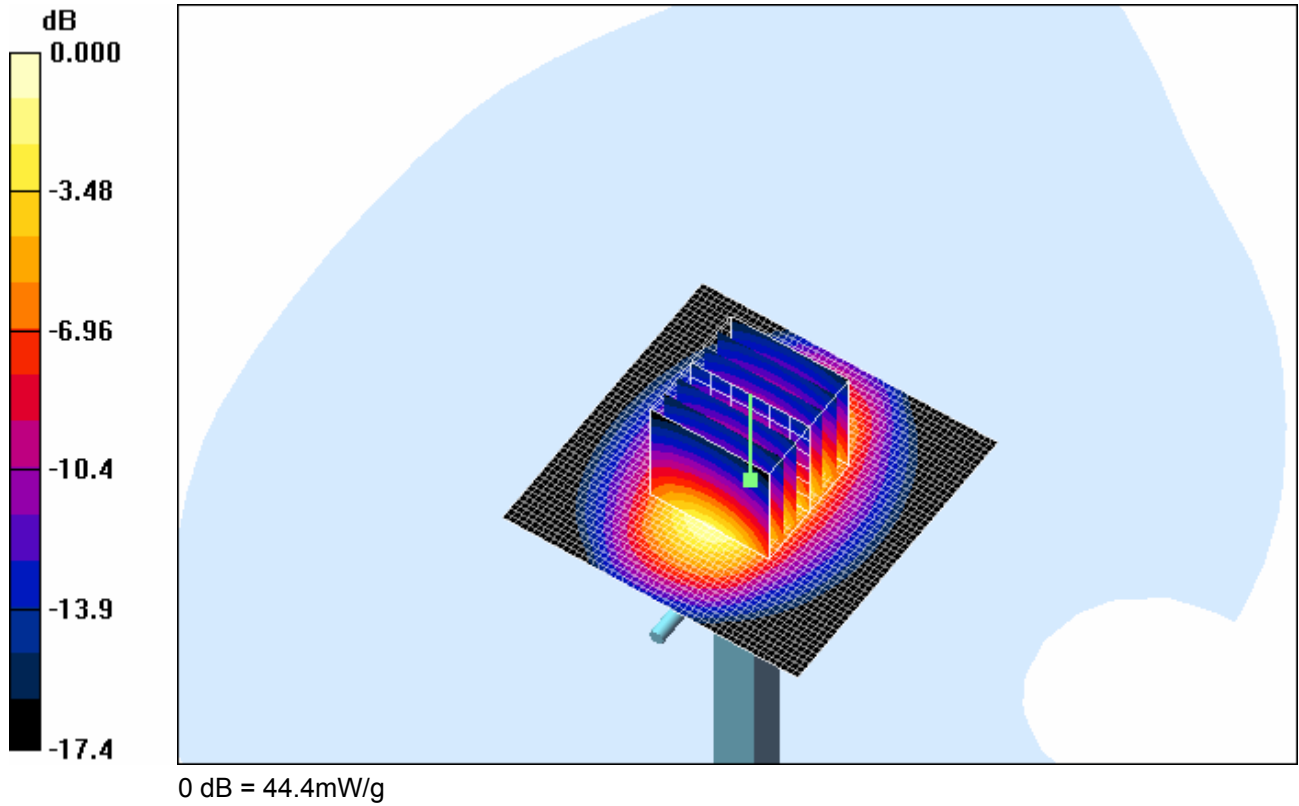
SAR(1 g) = 39.1 mW/g; SAR(10 g) = 20.5 mW/g

Maximum value of SAR (measured) = 44.4 mW/g

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 54.8 mW/g

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Date/Time: 09/02/2007 2:40:46 PM

Test Laboratory: RTS

DipoleValidation_1900MHz_Amb_Tem_24_5_Liq_Tem_22_8_deg_cel_02_09_07

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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 18/01/2007
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 183.8 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 69.2 W/kg

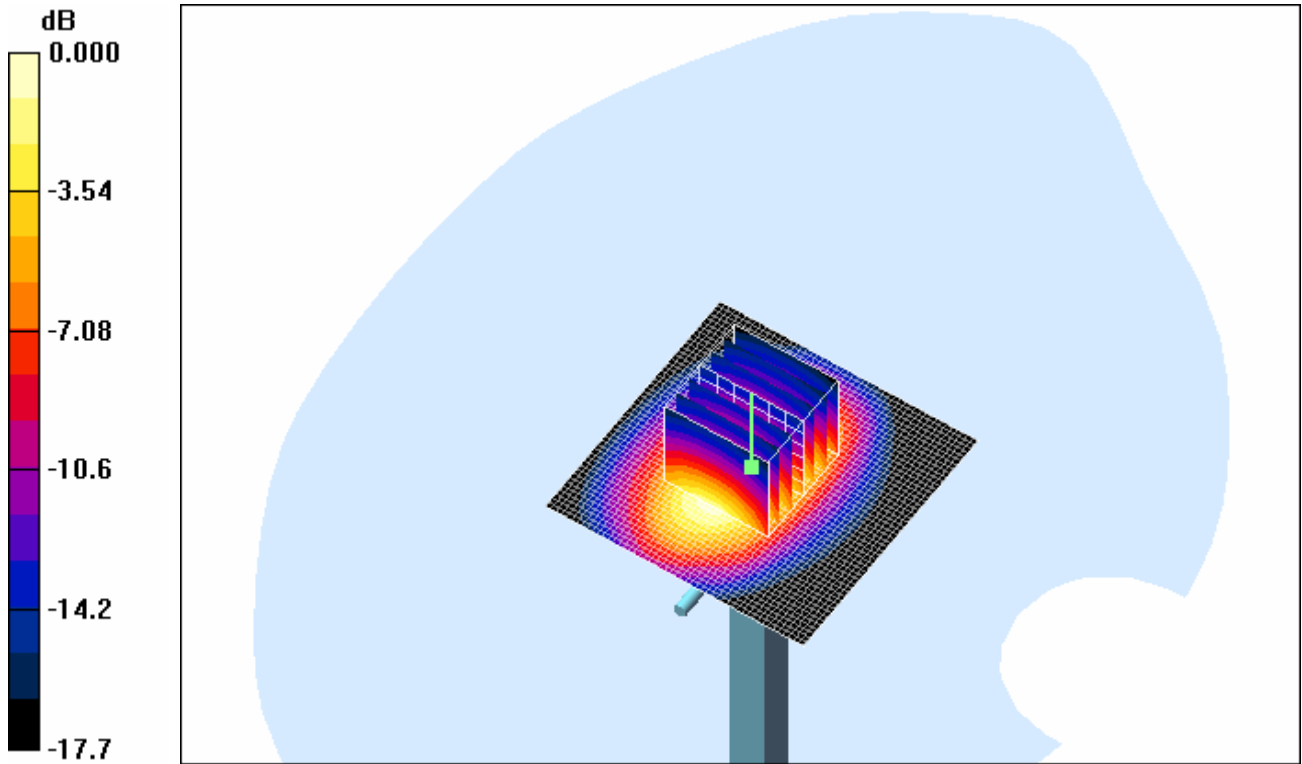
SAR(1 g) = 39 mW/g; SAR(10 g) = 20.4 mW/g

Maximum value of SAR (measured) = 43.6 mW/g

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 51.0 mW/g

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0 dB = 43.6mW/g

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Date/Time: 15/02/2007 10:00:16 AM

Test Laboratory: RTS

DipoleValidation_1900MHz_Amb_Tem_24_7_Liq_Tem_23_6_deg_cel_02_15_07

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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 40.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1643; ConvF(5.18, 5.18, 5.18); Calibrated: 16/03/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 18/01/2007
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 186.0 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 69.9 W/kg

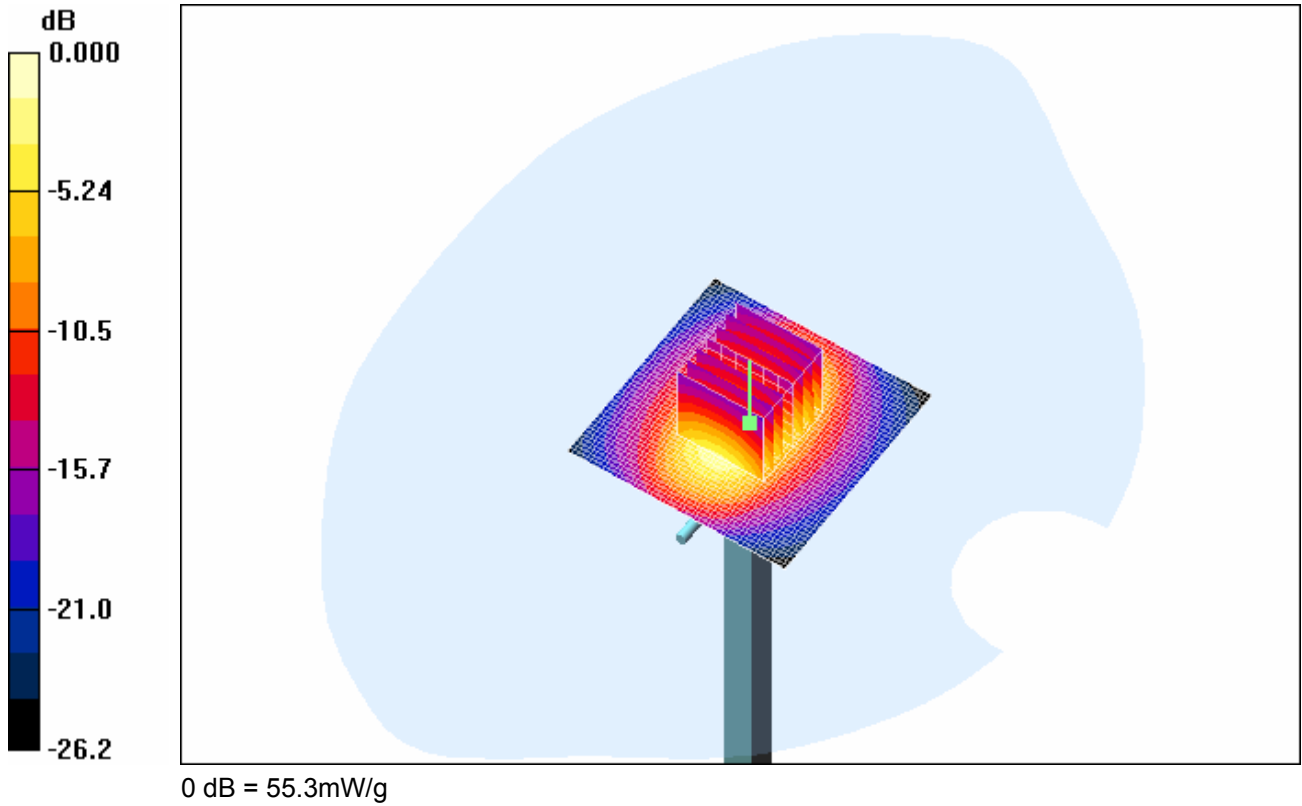
SAR(1 g) = 39.8 mW/g; SAR(10 g) = 21 mW/g

Maximum value of SAR (measured) = 44.8 mW/g

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 55.3 mW/g

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Date/Time: 22/02/2007 3:05:20 PM

Test Laboratory: RTS

DipoleValidation_1900MHz_Amb_Tem_24_2_Liq_Tem_23_5_deg_cel_02_22_07

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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.07, 5.07, 5.07); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 18/01/2007
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 186.3 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 69.5 W/kg

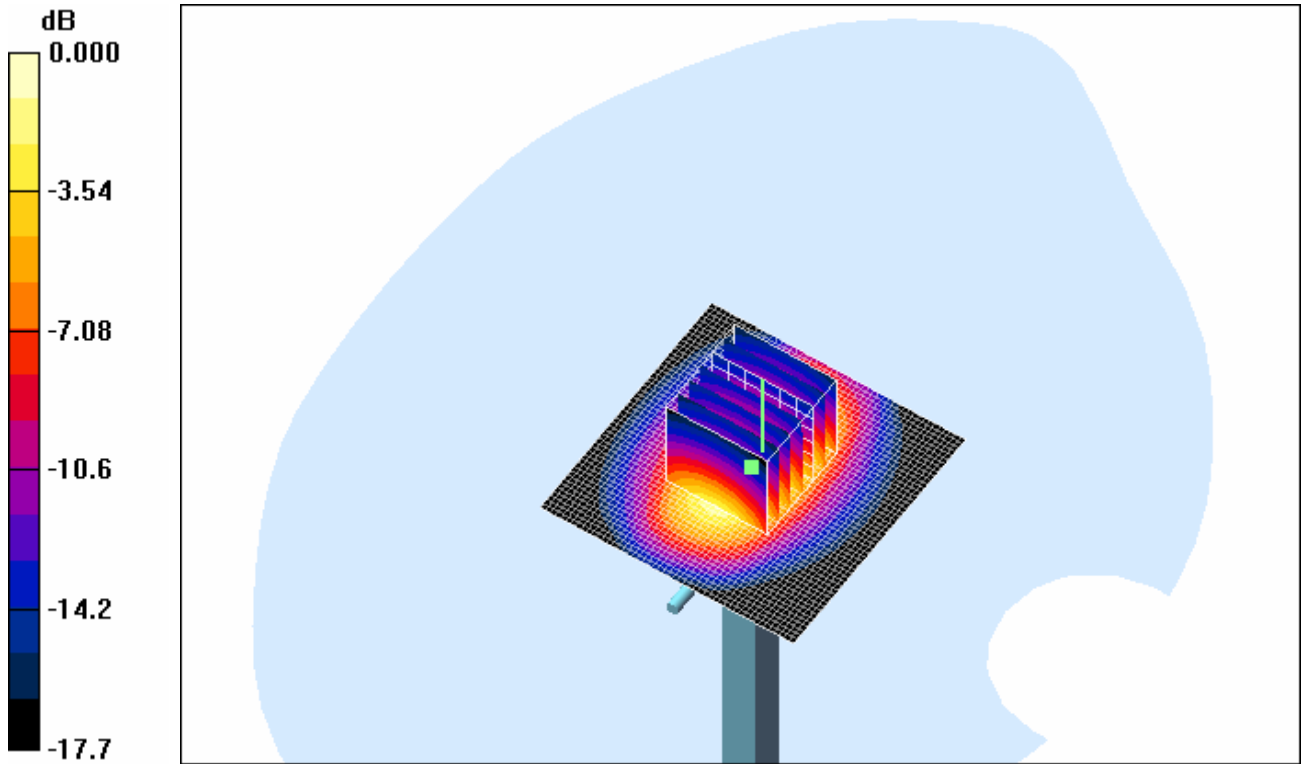
SAR(1 g) = 39.3 mW/g; SAR(10 g) = 20.6 mW/g

Maximum value of SAR (measured) = 44.3 mW/g

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 50.8 mW/g

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0 dB = 44.3mW/g

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Date/Time: 26/02/2007 9:16:56 AM

Test Laboratory: RTS

DipoleValidation_1900MHz_Amb_Tem_24_5_Liq_Tem_23_2_deg_cel_02_26_07

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

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(5.07, 5.07, 5.07); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 18/01/2007
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 184.5 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 71.0 W/kg

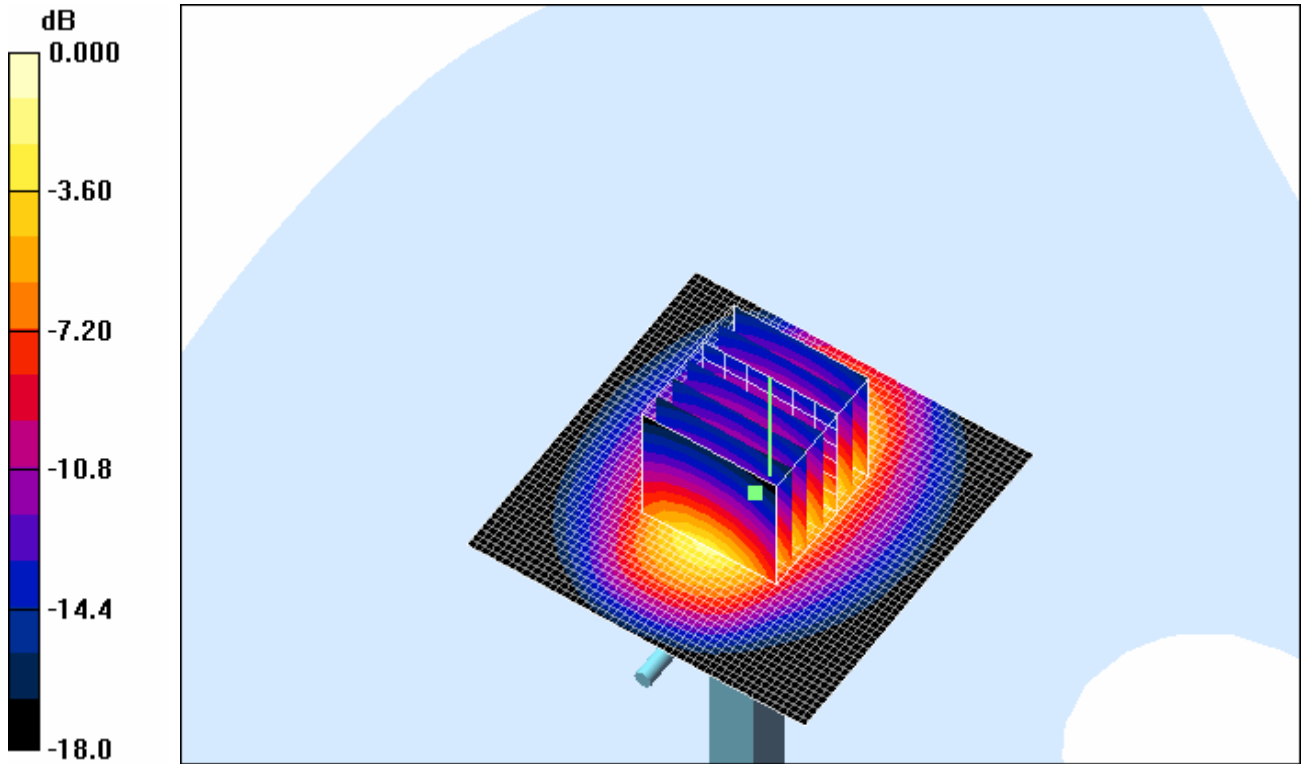
SAR(1 g) = 40.2 mW/g; SAR(10 g) = 21.1 mW/g

Maximum value of SAR (measured) = 45.9 mW/g

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 52.8 mW/g

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0 dB = 45.9mW/g

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APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

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Date/Time: 06/02/2007 9:18:48 AM

Test Laboratory: RTS

RightHandSide_GSM850_MidChan_Amb_Tem_24_6_Liq_Tem_23_4C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.857 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = -0.043 dB

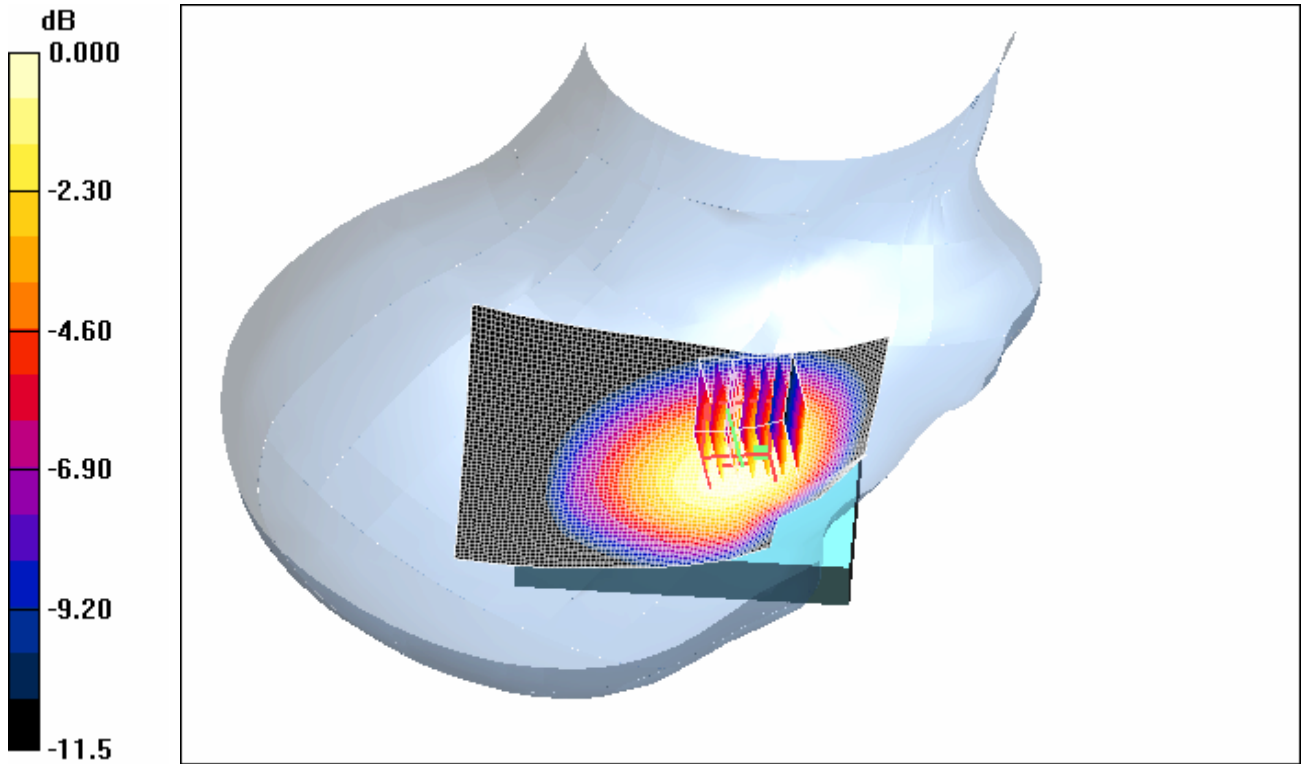
Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.796 mW/g; SAR(10 g) = 0.572 mW/g

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

Maximum value of SAR (measured) = 0.841 mW/g

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0 dB = 0.841mW/g

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Date/Time: 06/02/2007 9:56:15 AM

Test Laboratory: RTS

RightHandSide_Tilt_GSM850_MidChan_Amb_Tem_24_9_Liq_Tem_23_6C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.445 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.9 V/m; Power Drift = -0.069 dB

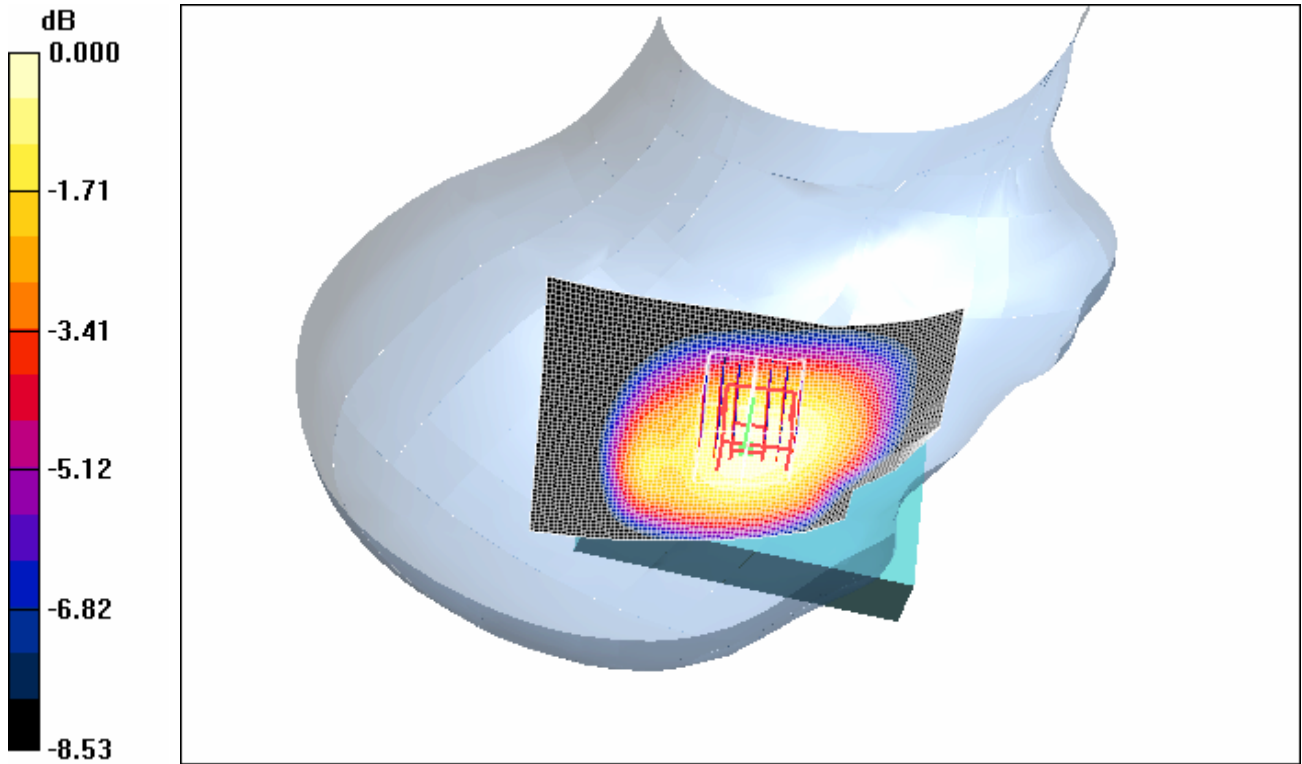
Peak SAR (extrapolated) = 0.545 W/kg

SAR(1 g) = 0.433 mW/g; SAR(10 g) = 0.325 mW/g

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

Maximum value of SAR (measured) = 0.460 mW/g

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0 dB = 0.460mW/g

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Date/Time: 06/02/2007 3:46:26 PM

Test Laboratory: RTS

RightHandSide_EDGE850_Mid_Chan_2_slots_Amb_Tem_24_9_Liq_Tem_22_8C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: EDGE 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.777 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.95 V/m; Power Drift = -0.144 dB

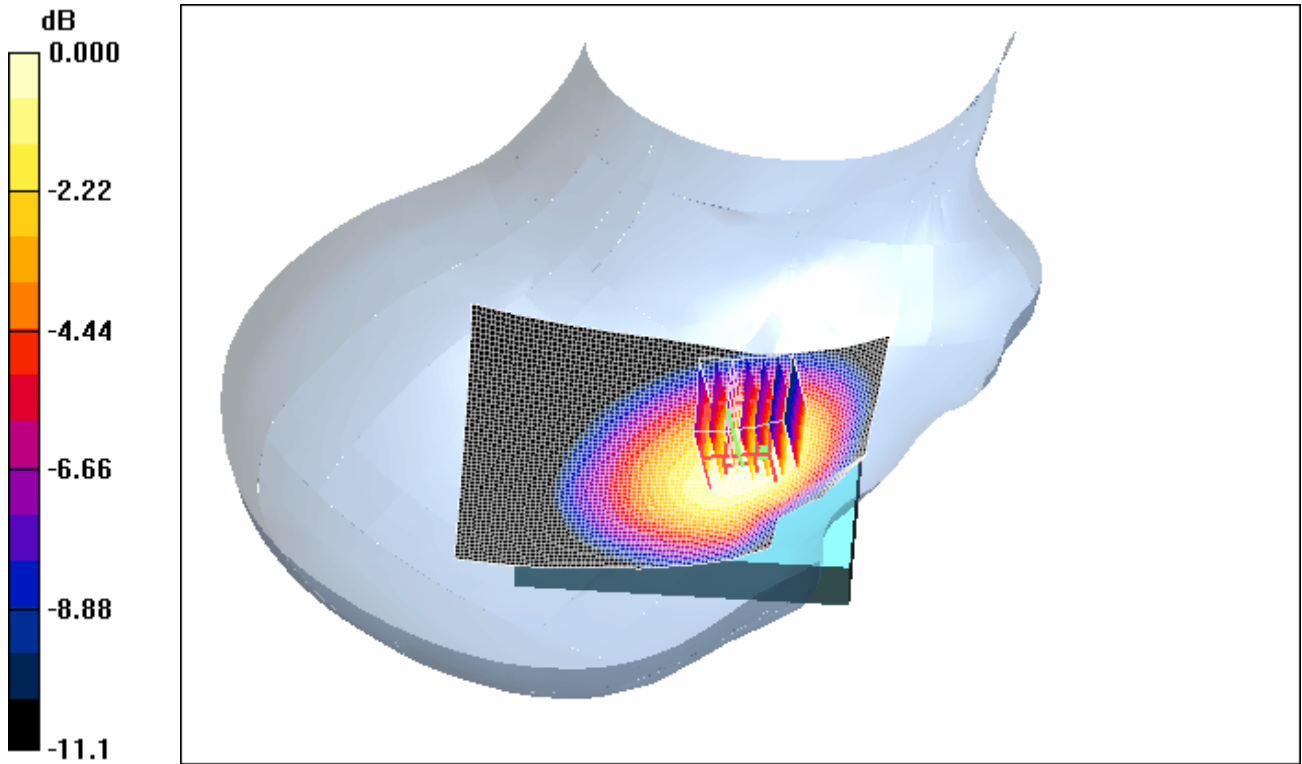
Peak SAR (extrapolated) = 0.912 W/kg

SAR(1 g) = 0.717 mW/g; SAR(10 g) = 0.516 mW/g

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

Maximum value of SAR (measured) = 0.762 mW/g

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0 dB = 0.762mW/g

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Date/Time: 06/02/2007 11:39:54 AM

Test Laboratory: RTS

LeftHandSide_GSM850_High_Chan_Amb_Tem_24_8_Liq_Tem_23_0C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.921 \text{ mho/m}$; $\epsilon_r = 43.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.879 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = -0.037 dB

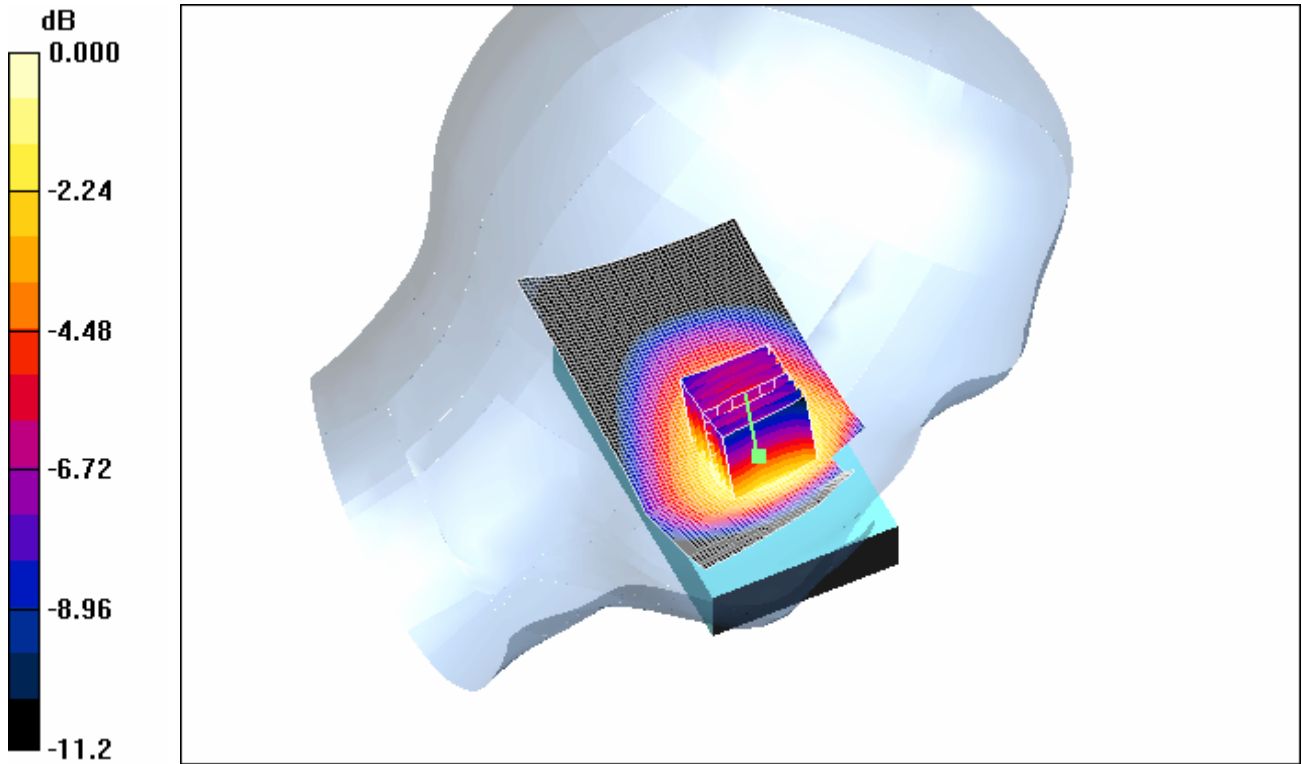
Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.818 mW/g; SAR(10 g) = 0.597 mW/g

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

Maximum value of SAR (measured) = 0.865 mW/g

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0 dB = 0.865mW/g

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Date/Time: 06/02/2007 12:09:38 PM

Test Laboratory: RTS

LeftHandSide_Tilt_GSM850_High_Chan_Amb_Tem_25_0_Liq_Tem_23_1

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.921 \text{ mho/m}$; $\epsilon_r = 43.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.466 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = 0.010 dB

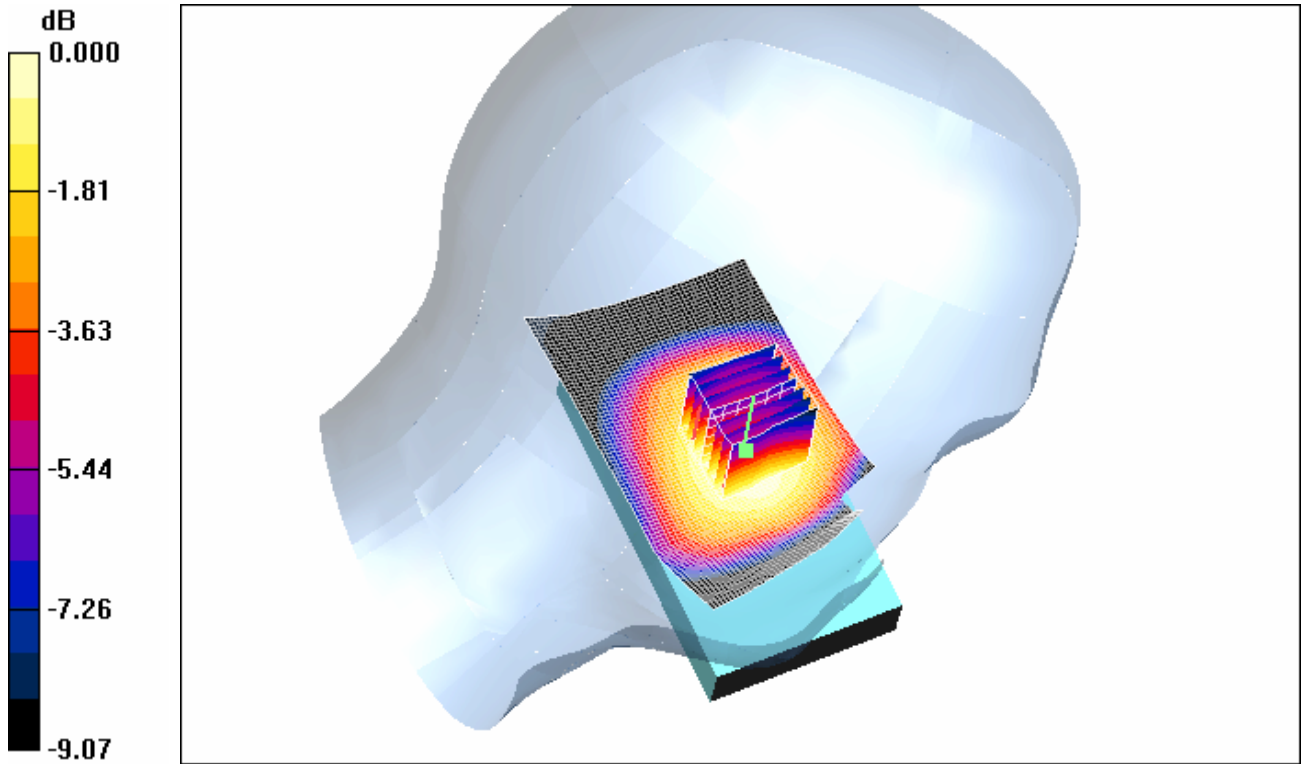
Peak SAR (extrapolated) = 0.562 W/kg

SAR(1 g) = 0.444 mW/g; SAR(10 g) = 0.334 mW/g

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

Maximum value of SAR (measured) = 0.469 mW/g

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0 dB = 0.469mW/g

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Date/Time: 06/02/2007 2:30:54 PM

Test Laboratory: RTS

LeftHandSide_EDGE850_Mid_Chan_Amb_Tem_24_8_Liq_Tem_22_8

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: EDGE 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.907 \text{ mho/m}$; $\epsilon_r = 43.2$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.42, 6.42, 6.42); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.2 V/m; Power Drift = 0.004 dB
Peak SAR (extrapolated) = 0.999 W/kg
SAR(1 g) = 0.810 mW/g; SAR(10 g) = 0.592 mW/g

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

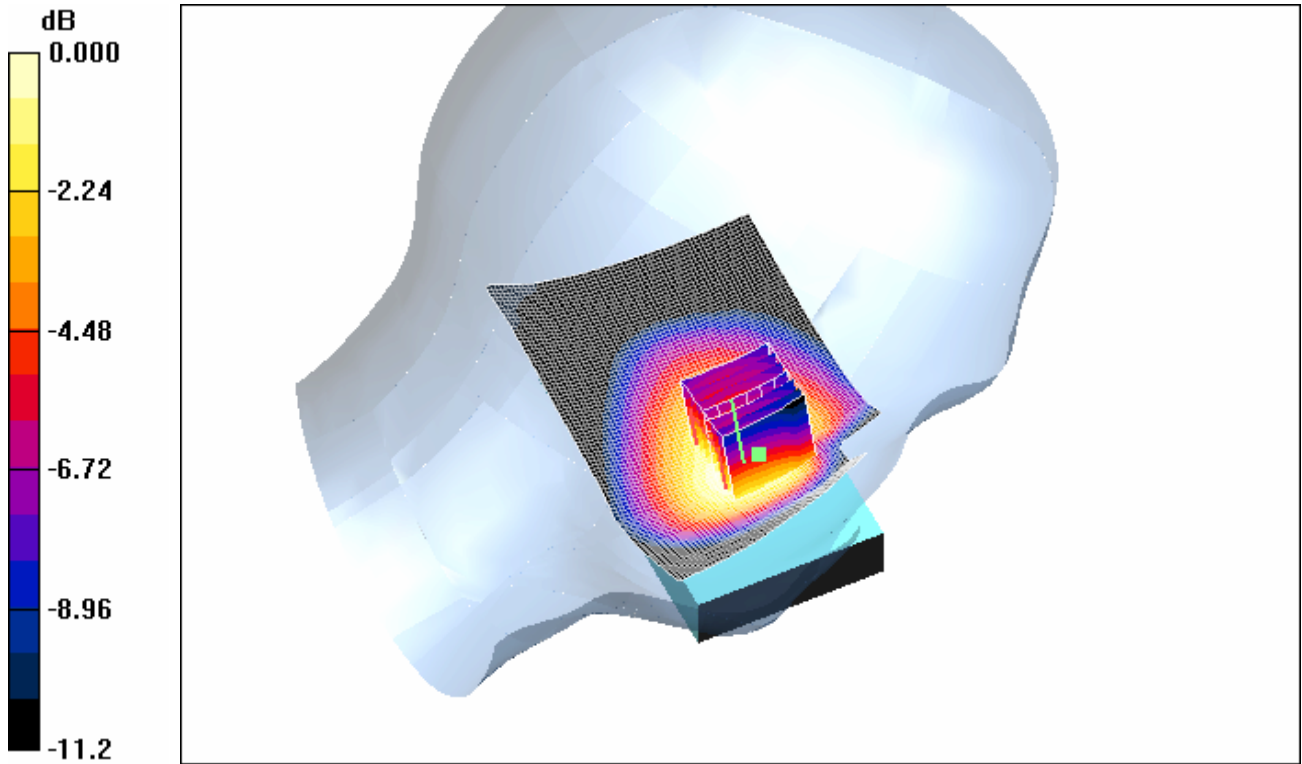
Maximum value of SAR (measured) = 0.845 mW/g

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.936 mW/g

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0 dB = 0.845mW/g

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Date/Time: 27/02/2007 1:27:13 PM

Test Laboratory: RTS

LeftHandSide_GSM850_High_rev 03_Chan_Amb_Tem_24_9_Liq_Tem_23_7C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

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

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.908$ mho/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1644; ConvF(6.43, 6.43, 6.43); Calibrated: 16/11/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 18/01/2007
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.928 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.9 V/m; Power Drift = -0.339 dB

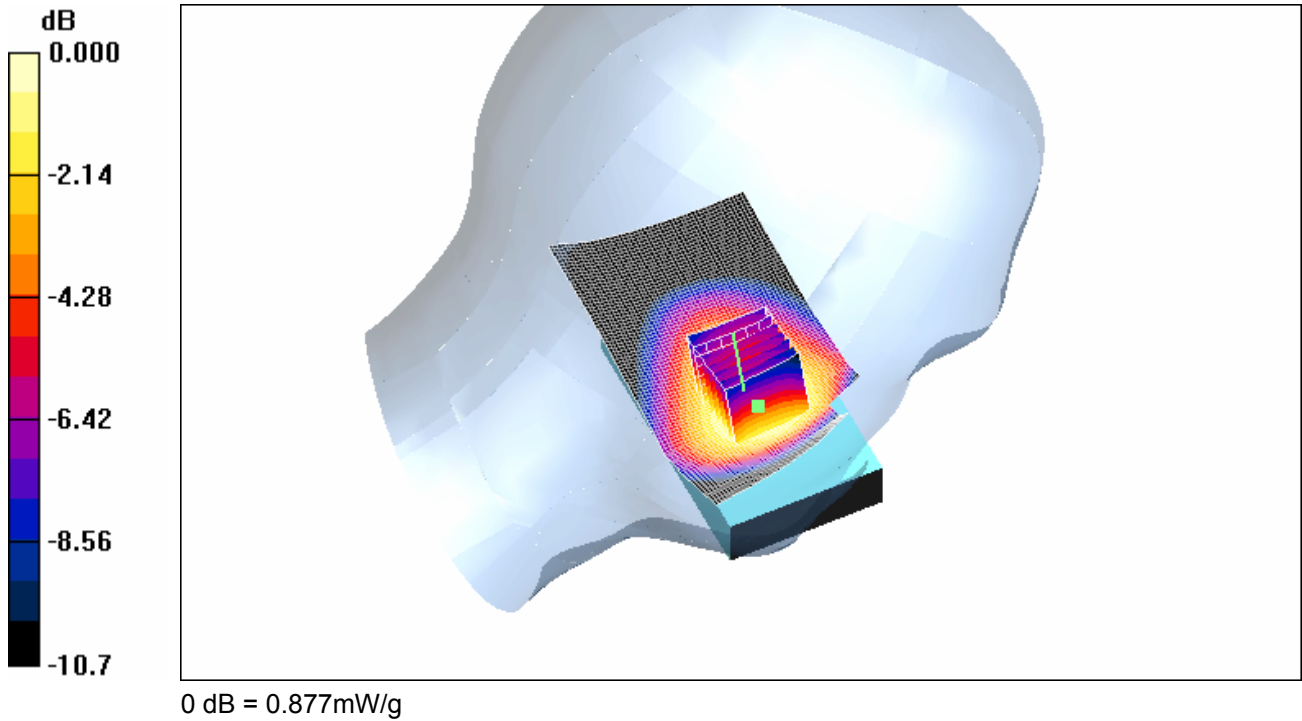
Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.841 mW/g; SAR(10 g) = 0.628 mW/g

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

Maximum value of SAR (measured) = 0.877 mW/g

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Date/Time: 27/02/2007 2:00:28 PM

Test Laboratory: RTS

LeftHandSide_EDGE850_Rev 03_High_Chan_Amb_Tem_24_8_Liq_Tem_23_6C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: EDGE 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.908$ mho/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

Probe: ET3DV6 - SN1644; ConvF(6.43, 6.43, 6.43); Calibrated: 16/11/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

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

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

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.2 V/m; Power Drift = 0.008 dB

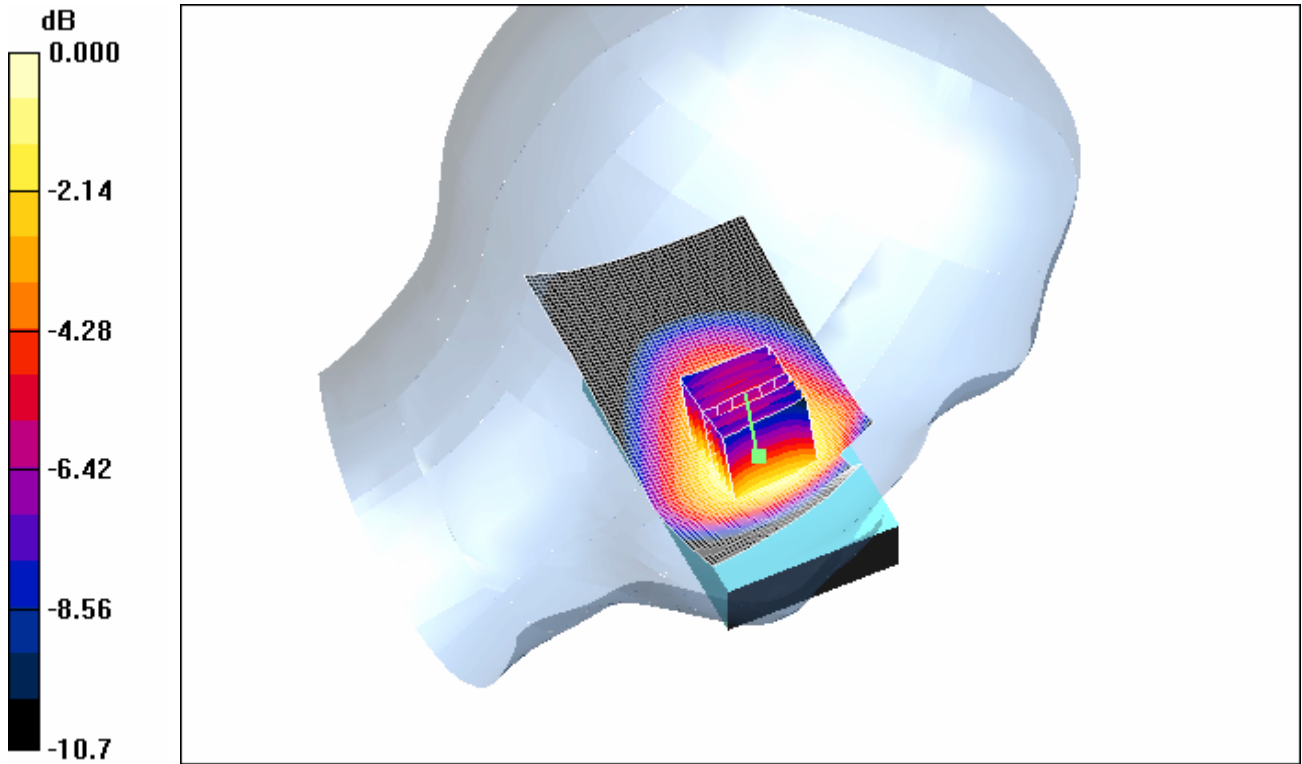
Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.920 mW/g; SAR(10 g) = 0.688 mW/g

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

Maximum value of SAR (measured) = 0.967 mW/g

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0 dB = 0.967mW/g

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Date/Time: 22/02/2007 5:04:38 PM

Test Laboratory: RTS

RightHandSide_GSM1900_MidChan_Amb_Tem_25_2_Liq_Tem_23_9C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 39.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

Probe: ET3DV6 - SN1644; ConvF(5.07, 5.07, 5.07); Calibrated: 16/11/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

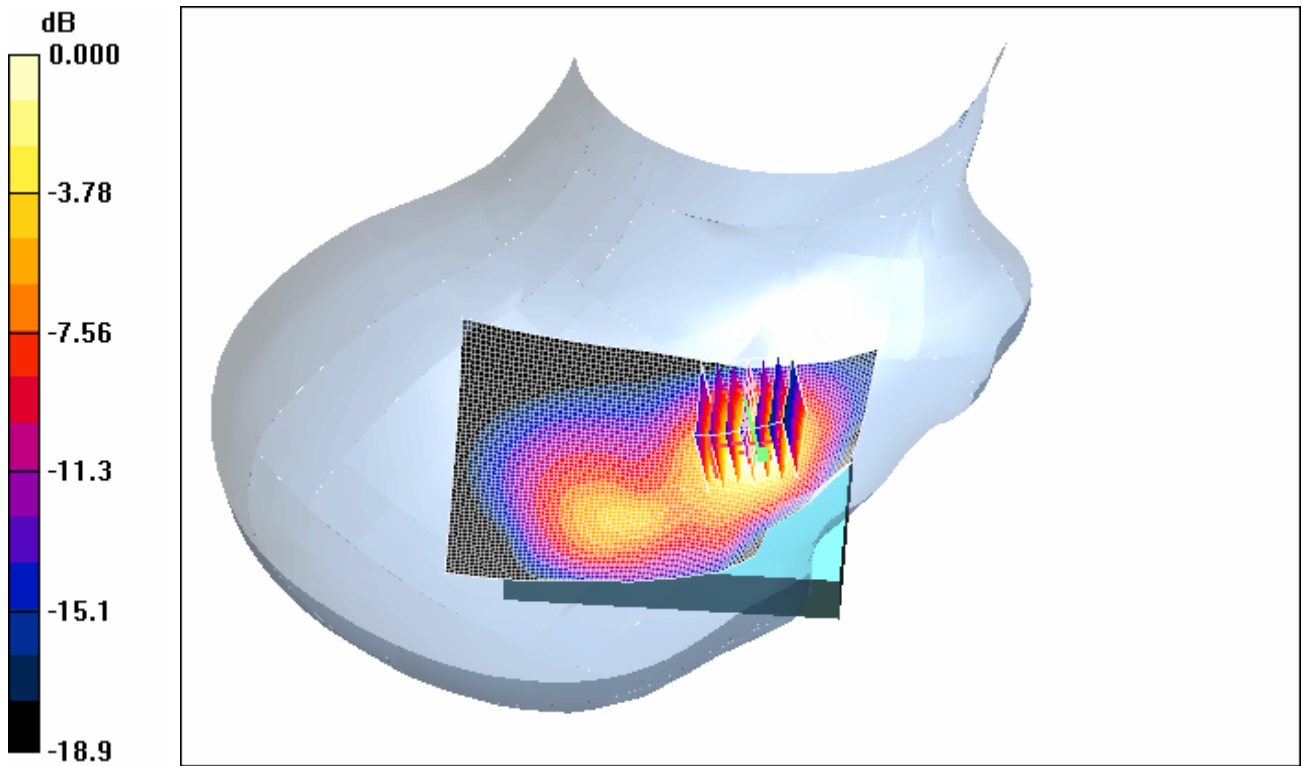
Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Mid/Area Scan (61x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 1.77 mW/g

Touch position - Mid/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$,
 $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 12.1 V/m; Power Drift = -0.040 dB
Peak SAR (extrapolated) = 2.15 W/kg
SAR(1 g) = 1.47 mW/g; SAR(10 g) = 0.822 mW/g
Maximum value of SAR (measured) = 1.61 mW/g

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0 dB = 1.61mW/g

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Date/Time: 22/02/2007 4:19:26 PM

Test Laboratory: RTS

RightHandSide_EDGE1900_MidChan_Amb_Tem_25_1_Liq_Tem_23_8C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.1$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY4 Configuration:

Probe: ET3DV6 - SN1644; ConvF(5.07, 5.07, 5.07); Calibrated: 16/11/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

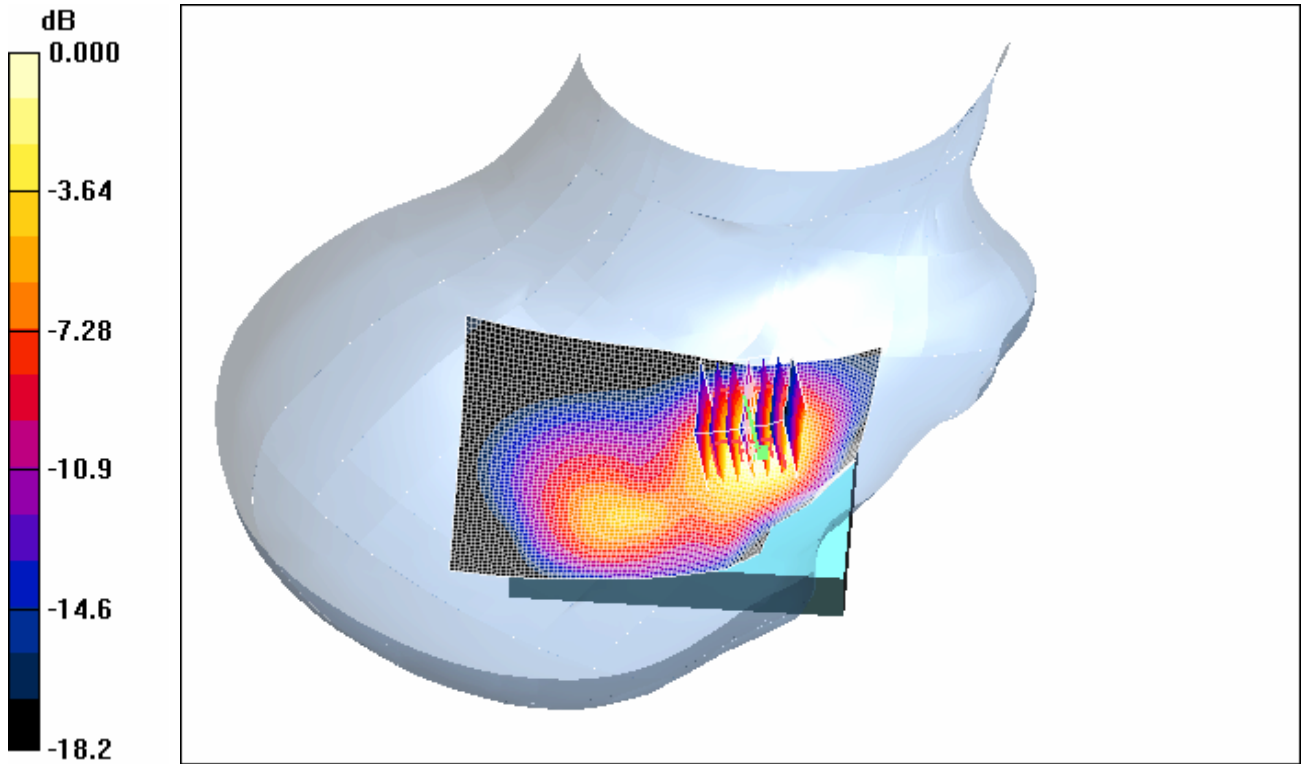
Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - Mid/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.85 mW/g

Touch position - Mid/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.1 V/m; Power Drift = -0.029 dB
Peak SAR (extrapolated) = 2.19 W/kg
SAR(1 g) = 1.51 mW/g; SAR(10 g) = 0.857 mW/g
Maximum value of SAR (measured) = 1.65 mW/g

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0 dB = 1.65mW/g

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Date/Time: 23/02/2007 9:24:09 AM

Test Laboratory: RTS

RightHandSide_Tilt_EDGE1900_MidChan_Amb_Tem_24_6_Liq_Tem_23_2C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: EDGE 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 39.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY4 Configuration:

Probe: ET3DV6 - SN1644; ConvF(5.07, 5.07, 5.07); Calibrated: 16/11/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.9 V/m; Power Drift = 0.039 dB

Peak SAR (extrapolated) = 0.612 W/kg

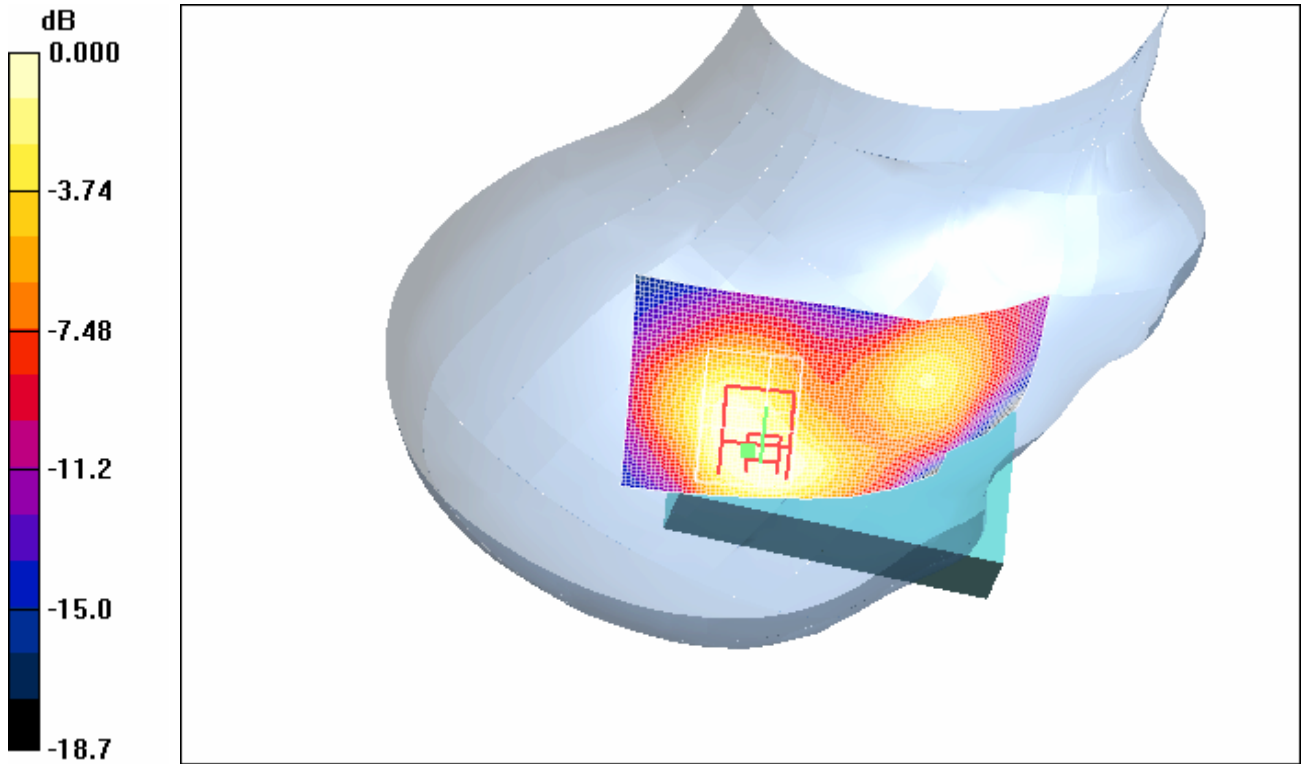
SAR(1 g) = 0.403 mW/g; SAR(10 g) = 0.257 mW/g

Maximum value of SAR (measured) = 0.439 mW/g

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.475 mW/g

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0 dB = 0.439mW/g

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Date/Time: 23/02/2007 11:31:34 AM

Test Laboratory: RTS

LeftHandSide_GSM1900_HighChan_Amb_Tem_25_0_Liq_Tem_23_3_C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium parameters used: $f = 1910$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

Probe: ET3DV6 - SN1644; ConvF(5.07, 5.07, 5.07); Calibrated: 16/11/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

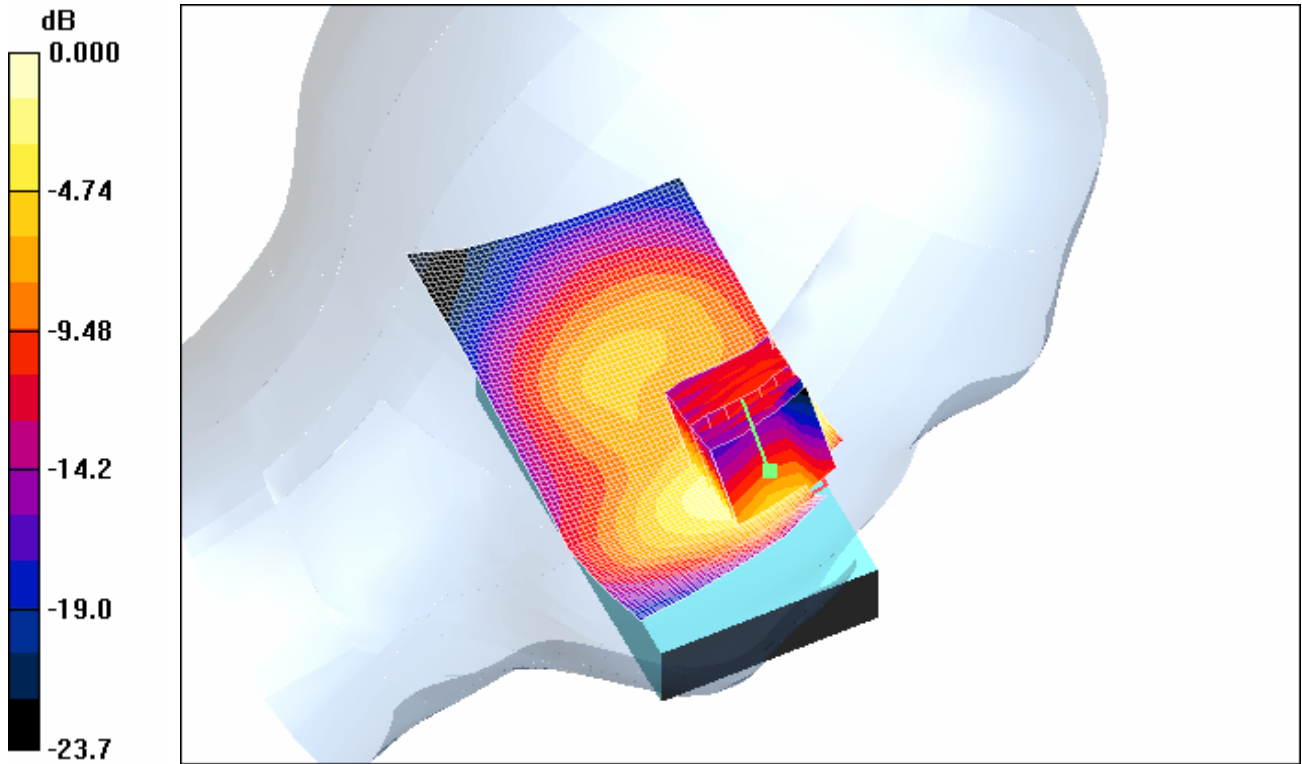
Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.31 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.0 V/m; Power Drift = -0.192 dB
Peak SAR (extrapolated) = 1.65 W/kg
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.642 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: 23/02/2007 10:42:34 AM

Test Laboratory: RTS

LeftHandSide_EDGE1900_HighChan_Amb_Tem_24_8_Liq_Tem_23_4_deg_cel

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: EDGE 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1910$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

Probe: ET3DV6 - SN1644; ConvF(5.07, 5.07, 5.07); Calibrated: 16/11/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

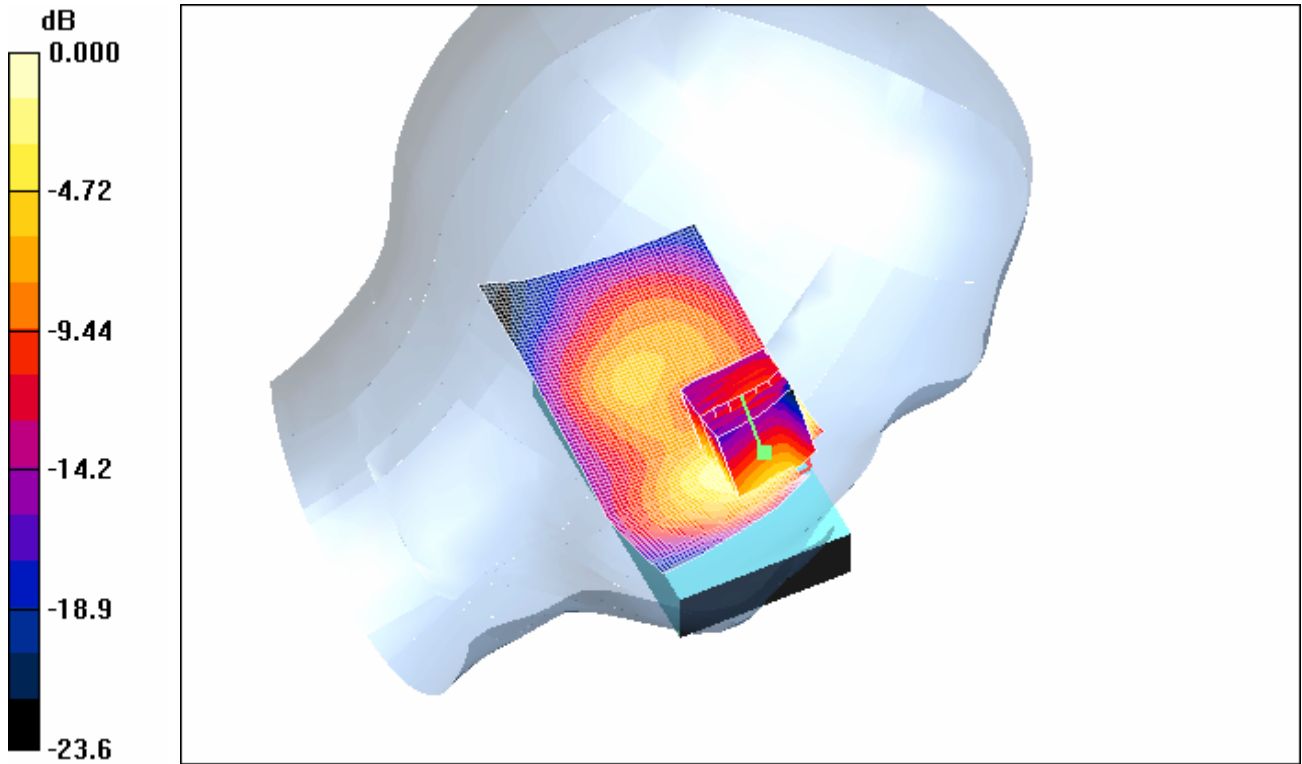
Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.23 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.3 V/m; Power Drift = -0.026 dB
Peak SAR (extrapolated) = 1.64 W/kg
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.605 mW/g
Maximum value of SAR (measured) = 1.16 mW/g

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0 dB = 1.16mW/g

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Date/Time: 23/02/2007 11:13:02 AM

Test Laboratory: RTS

LeftHandSide_Tilt_EDGE1900_HighChan_Amb_Tem_25_0_Liq_Tem_23_4_deg_cel

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: EDGE 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1910$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY4 Configuration:

Probe: ET3DV6 - SN1644; ConvF(5.07, 5.07, 5.07); Calibrated: 16/11/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.4 V/m; Power Drift = 0.199 dB

Peak SAR (extrapolated) = 0.645 W/kg

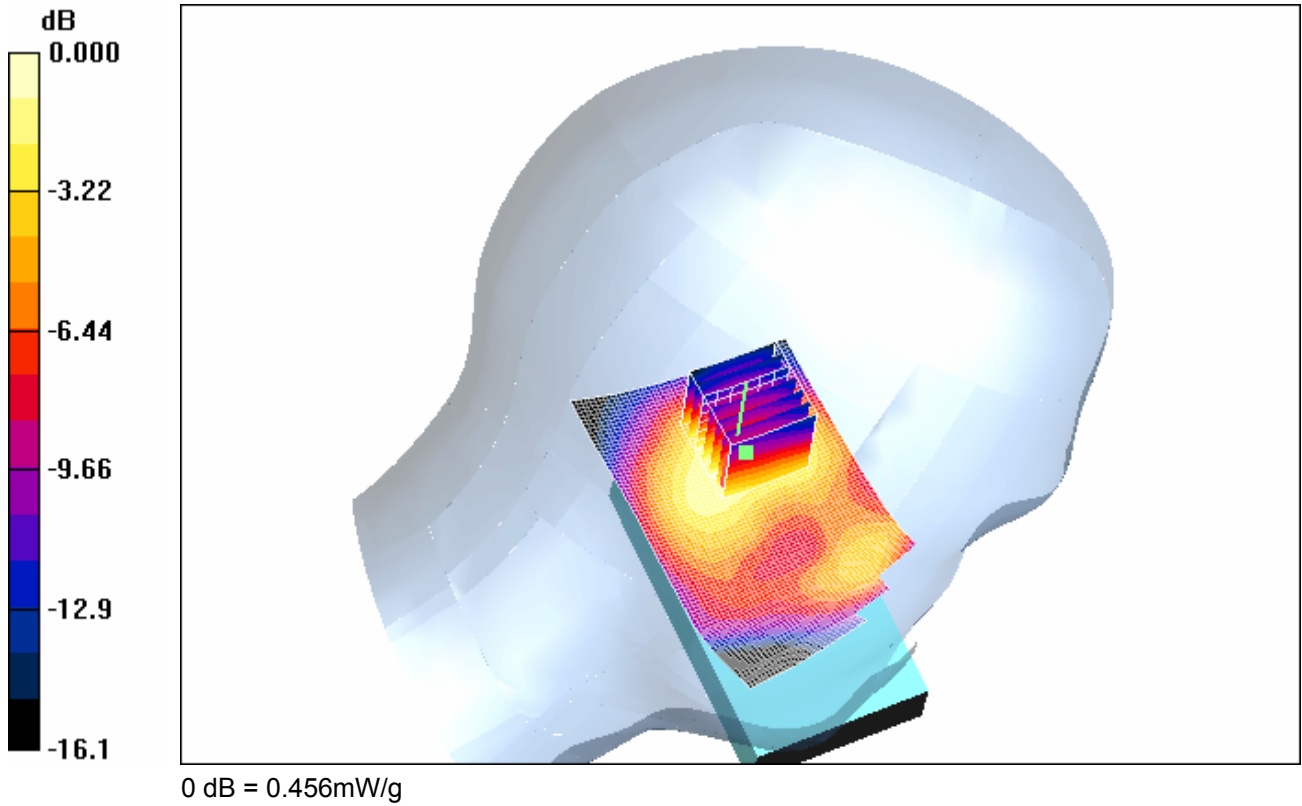
SAR(1 g) = 0.410 mW/g; SAR(10 g) = 0.248 mW/g

Maximum value of SAR (measured) = 0.456 mW/g

Tilt position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

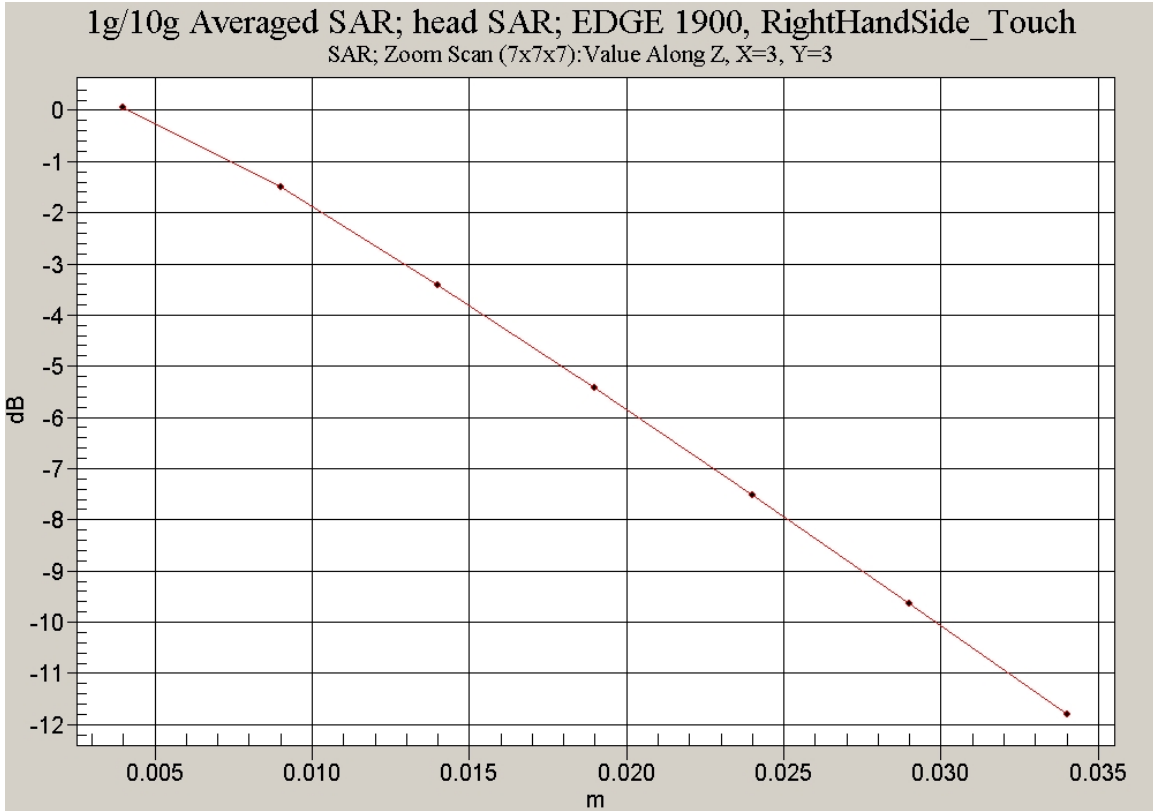
Maximum value of SAR (interpolated) = 0.477 mW/g

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Z axis plot for the worst case head configuration:



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APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

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	Author Data Daoud Attayi	Dates of Test Feb. 05-27, 2007	Test Report No RTS—0628-0702-08

Date/Time: 07/02/2007 9:16:15 AM

Test Laboratory: RTS

Body_Holster1_Back_GPRS850_Mid_Chan_Amb_Tem_25_0_Liq_Tem_22_6C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8 \text{ MHz}$; $\sigma = 0.978 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.2 V/m; Power Drift = -0.053 dB
Peak SAR (extrapolated) = 0.769 W/kg
SAR(1 g) = 0.596 mW/g; SAR(10 g) = 0.435 mW/g

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

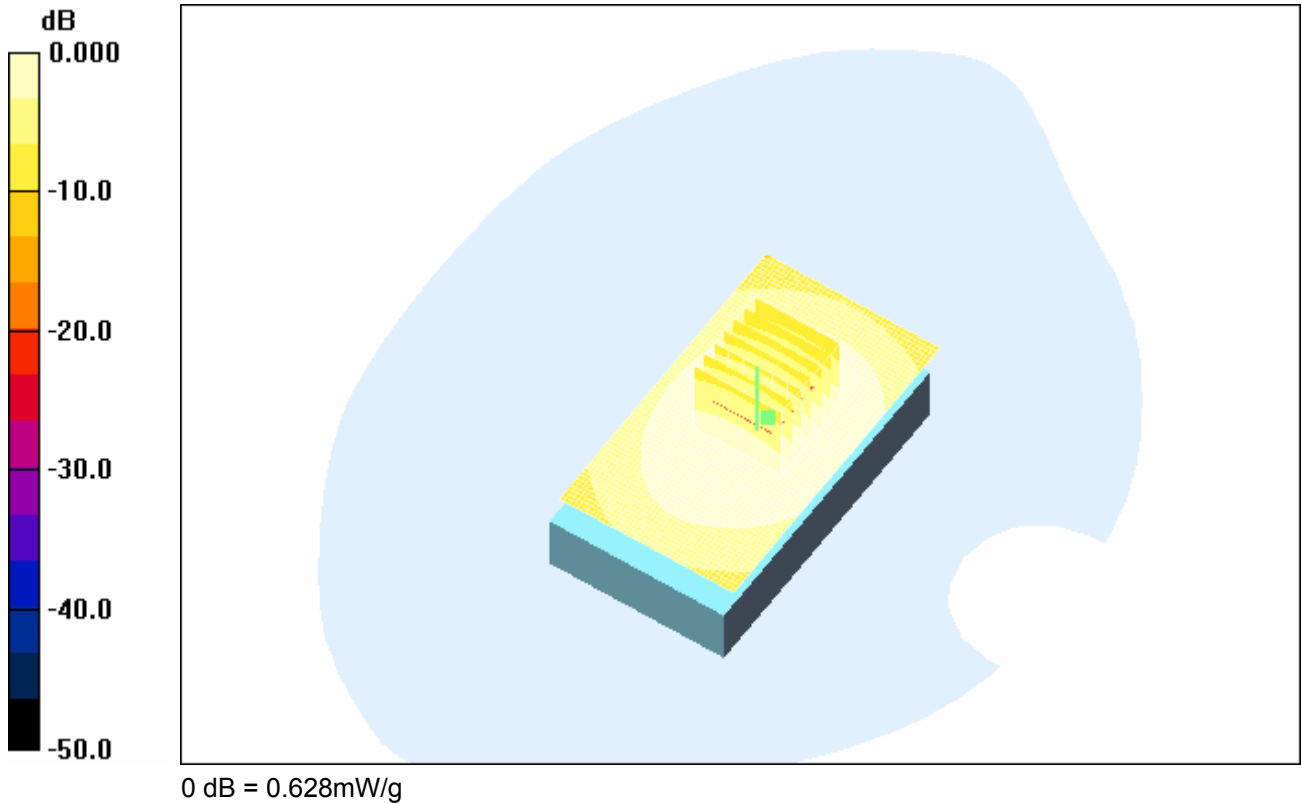
Maximum value of SAR (measured) = 0.631 mW/g

d=15mm, body SAR/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.628 mW/g

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	Author Data Daoud Attayi	Dates of Test Feb. 05-27, 2007	Test Report No RTS—0628-0702-08

Date/Time: 07/02/2007 9:41:10 AM

Test Laboratory: RTS

Body_Holster2_Back_GPRS850_Mid_Chan_Amb_Tem_24_4_Liq_Tem_22_8C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 850; Frequency: 836.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 836.8$ MHz; $\sigma = 0.978$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.0 V/m; Power Drift = 0.007 dB

Peak SAR (extrapolated) = 0.750 W/kg

SAR(1 g) = 0.587 mW/g; SAR(10 g) = 0.430 mW/g

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

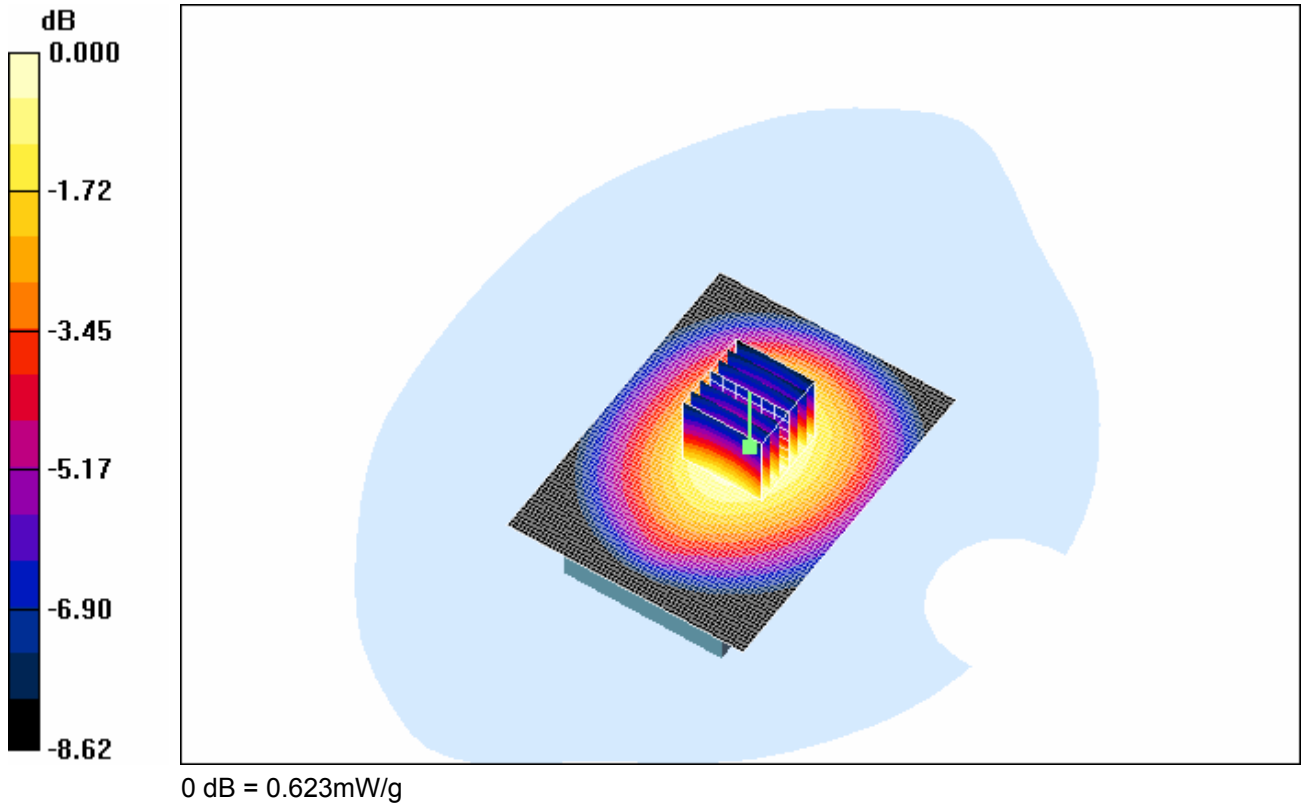
Maximum value of SAR (measured) = 0.623 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.622 mW/g

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	Author Data Daoud Attayi	Dates of Test Feb. 05-27, 2007	Test Report No RTS—0628-0702-08

Date/Time: 07/02/2007 10:58:57 AM

Test Laboratory: RTS

Body_Holster3_Back_GPRS850_High_Chan_Amb_Tem_24_7_Liq_Tem_22_7C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.982 \text{ mho/m}$; $\epsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.0 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 2.20 W/kg

SAR(1 g) = 0.973 mW/g; SAR(10 g) = 0.422 mW/g

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

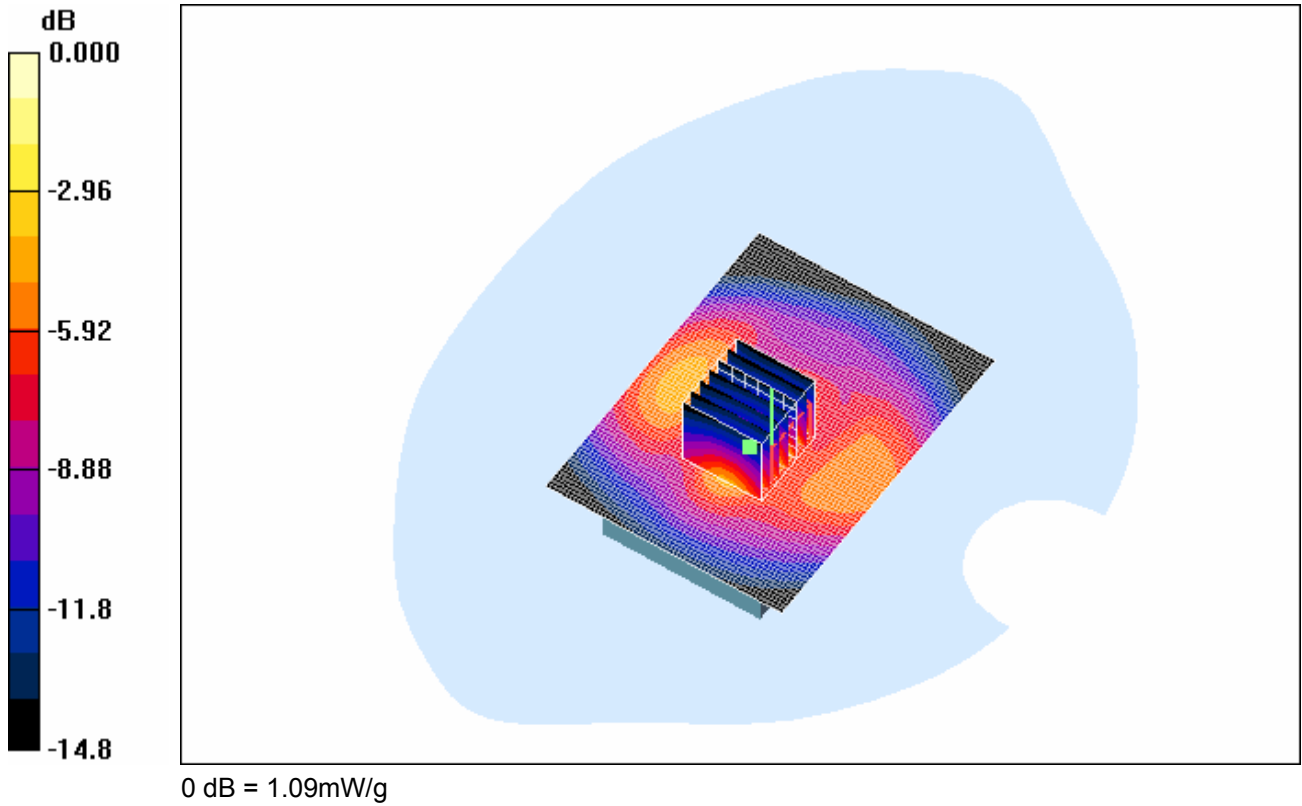
Maximum value of SAR (measured) = 1.09 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.922 mW/g

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Date/Time: 07/02/2007 11:29:14 AM

Test Laboratory: RTS

Body_Holster3_Front_GPRS850_High_Chan_Amb_Tem_24_6_Liq_Tem_22_8

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.982 \text{ mho/m}$; $\epsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.8 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.768 mW/g; SAR(10 g) = 0.327 mW/g

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

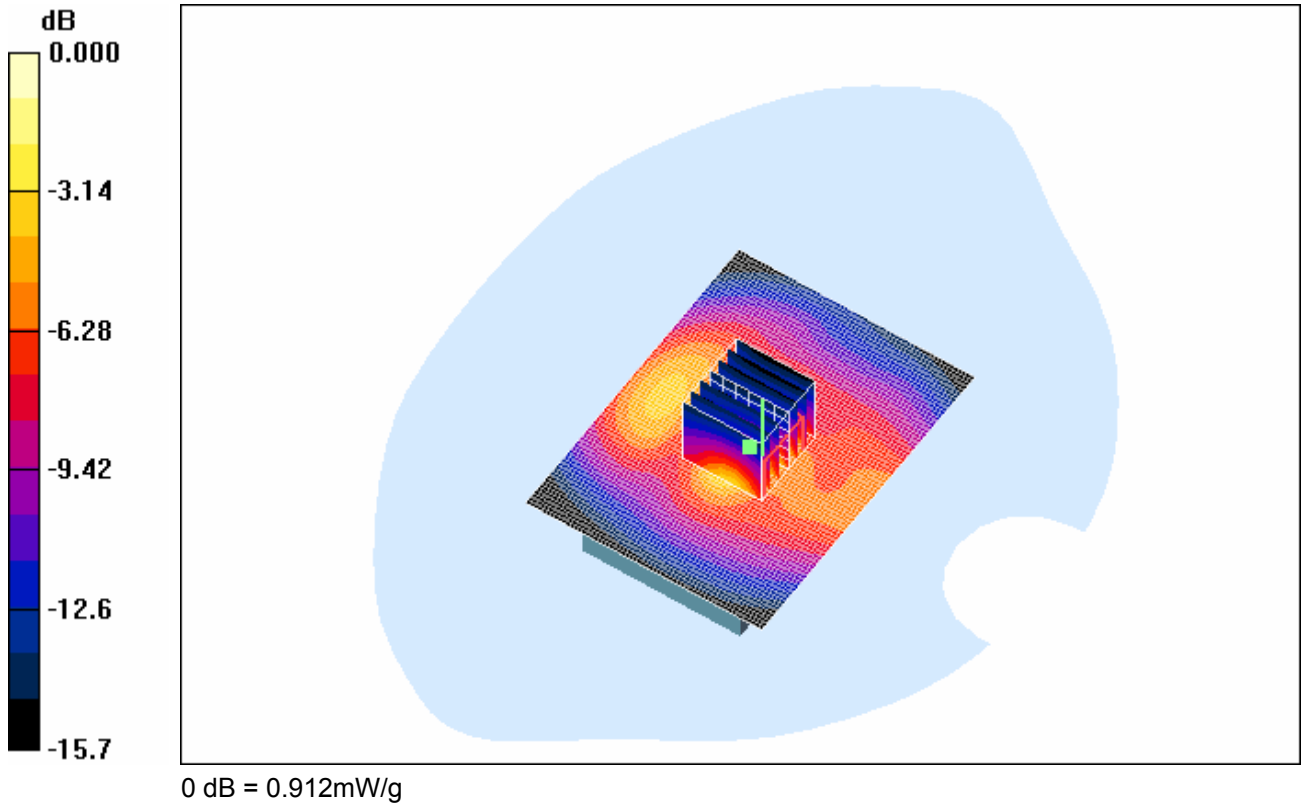
Maximum value of SAR (measured) = 0.912 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.636 mW/g

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	Author Data Daoud Attayi	Dates of Test Feb. 05-27, 2007	Test Report No RTS—0628-0702-08

Date/Time: 07/02/2007 11:51:35 AM

Test Laboratory: RTS

Body_Holster3_Back_Headset_GPRS850_High_Chan Amb_Tem_24_6_Liq_Tem_22_8

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.982 \text{ mho/m}$; $\epsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.3 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 0.850 mW/g; SAR(10 g) = 0.351 mW/g

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

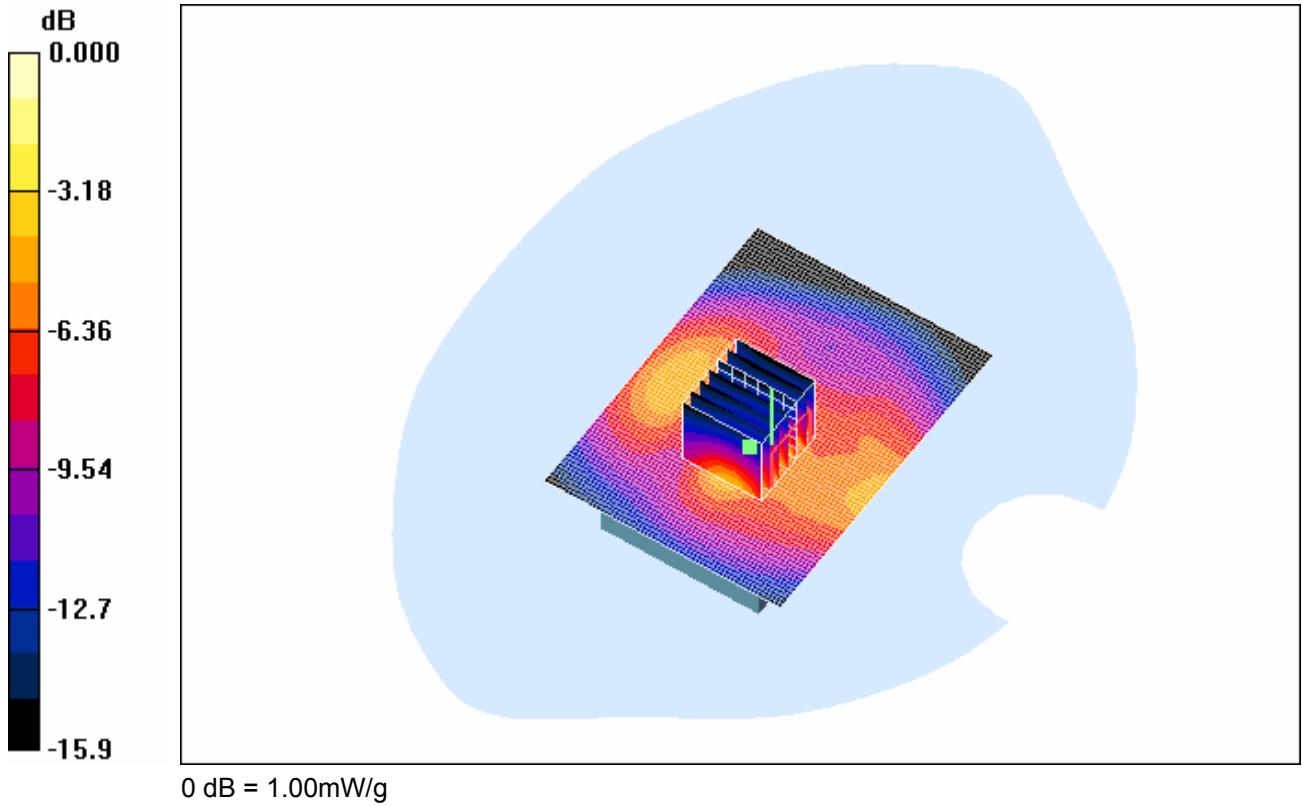
Maximum value of SAR (measured) = 1.00 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.717 mW/g

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Date/Time: 07/02/2007 12:45:19 PM

Test Laboratory: RTS

Body_Holster3_Back_BT_GPRS850_High_Chan Amb_Tem_24_8_Liq_Tem_22_7

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.982$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.2 V/m; Power Drift = -0.132 dB

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 0.908 mW/g; SAR(10 g) = 0.382 mW/g

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

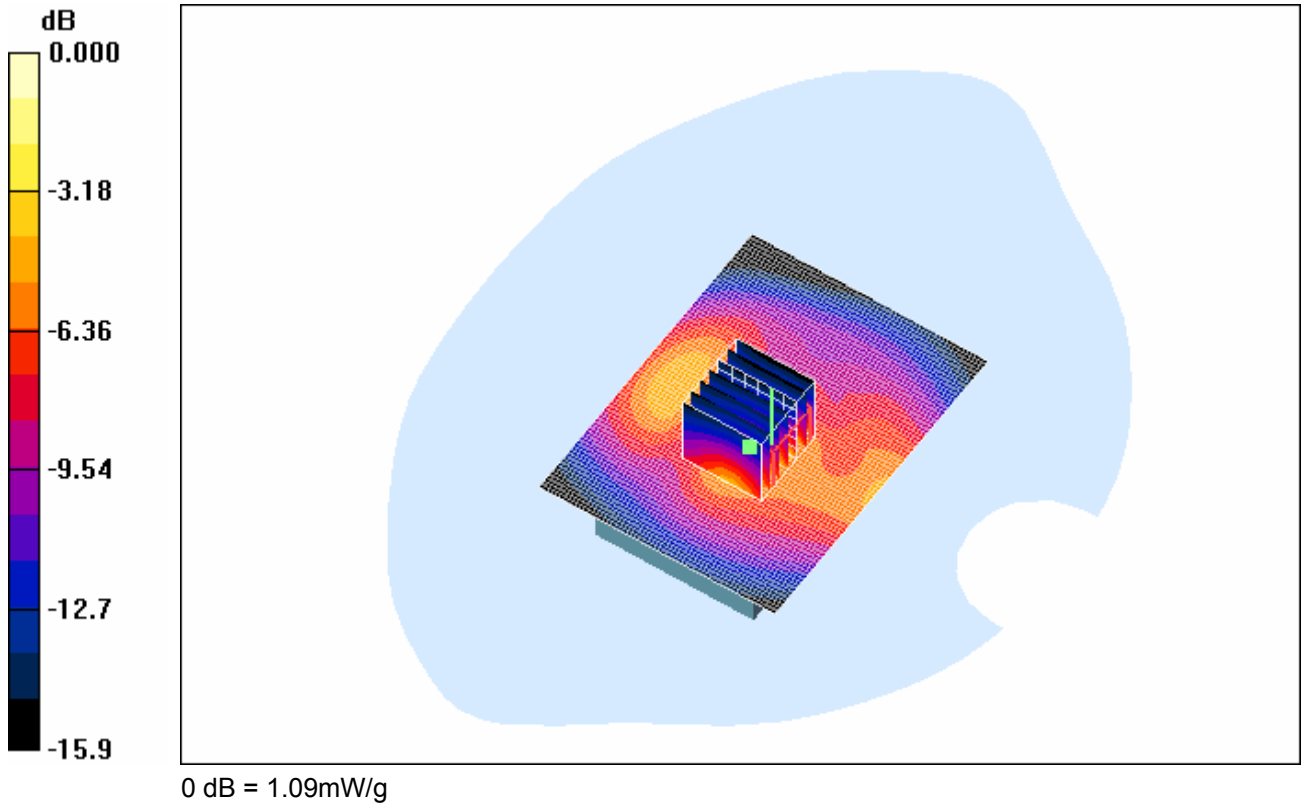
Maximum value of SAR (measured) = 1.09 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.700 mW/g

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Date/Time: 07/02/2007 1:05:58 PM

Test Laboratory: RTS

Body_25mm_Back_GPRS850_High_Chan_Amb_Tem_24_7_Liq_Tem_22_8C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.982 \text{ mho/m}$; $\epsilon_r = 52.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(6.03, 6.03, 6.03); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.3 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 0.494 W/kg

SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.288 mW/g

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

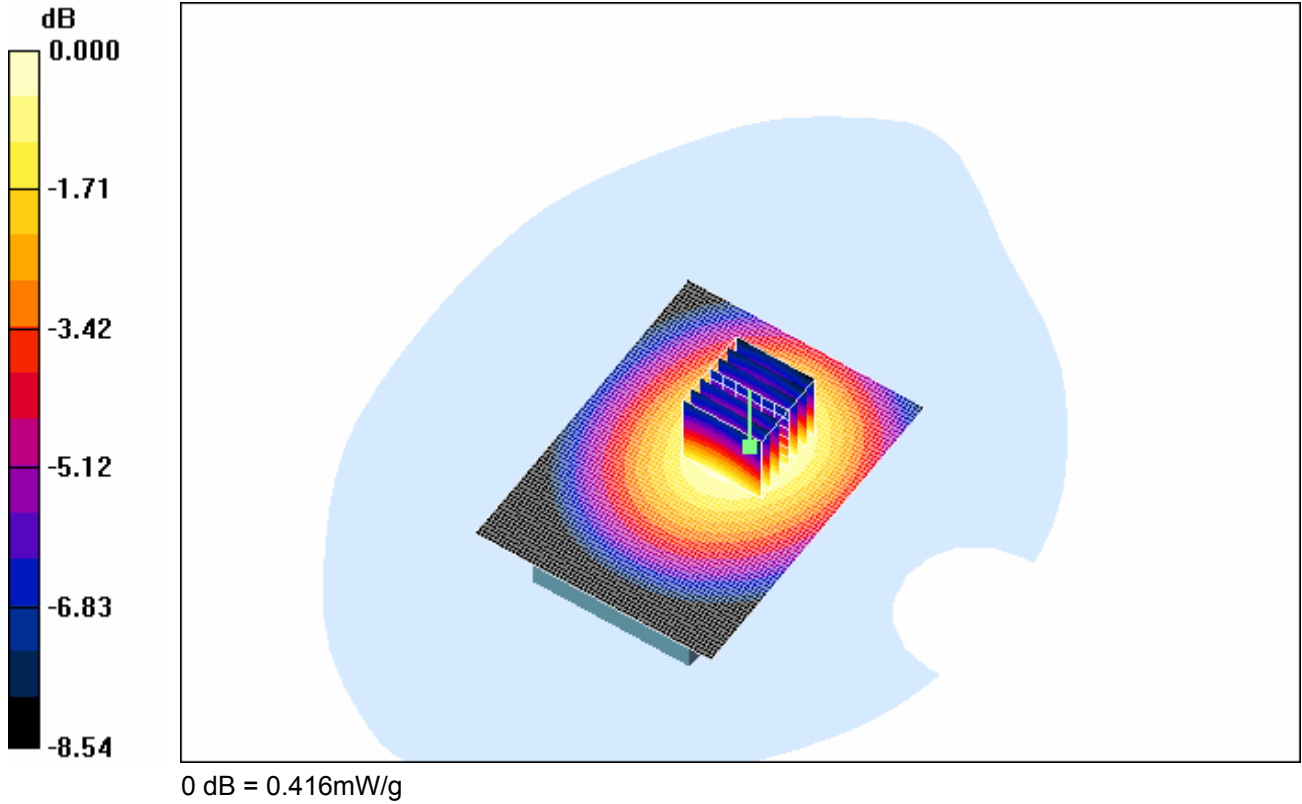
Maximum value of SAR (measured) = 0.416 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.416 mW/g

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Date/Time: 27/02/2007 2:44:17 PM

Test Laboratory: RTS

Body_Holster3_Back_GPRS850_rev 03_High_Chan_Amb_Tem_25_0_Liq_Tem_23_8C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.2
Medium parameters used (interpolated): $f = 848.8 \text{ MHz}$; $\sigma = 0.945 \text{ mho/m}$; $\epsilon_r = 53.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1644; ConvF(6.02, 6.02, 6.02); Calibrated: 16/11/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.7 V/m; Power Drift = -0.259 dB
Peak SAR (extrapolated) = 2.52 W/kg
SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.445 mW/g

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

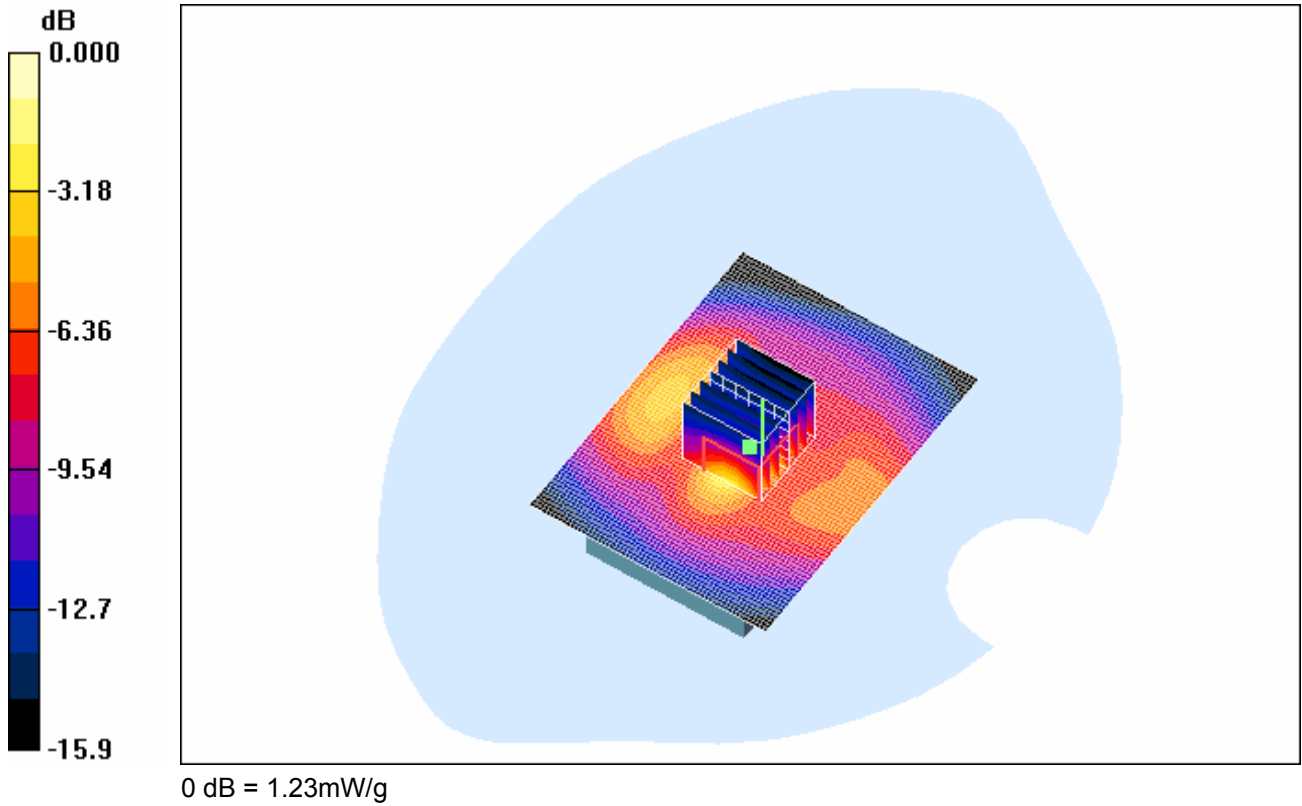
Maximum value of SAR (measured) = 1.23 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.947 mW/g

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Date/Time: 16/02/2007 9:17:48 AM

Test Laboratory: RTS

Body_Holster1_Back_GPRS1900_Mid_Chan_Amb_Tem_24_5_Liq_Tem_23_0C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.56 V/m; Power Drift = -0.410 dB

Peak SAR (extrapolated) = 0.317 W/kg

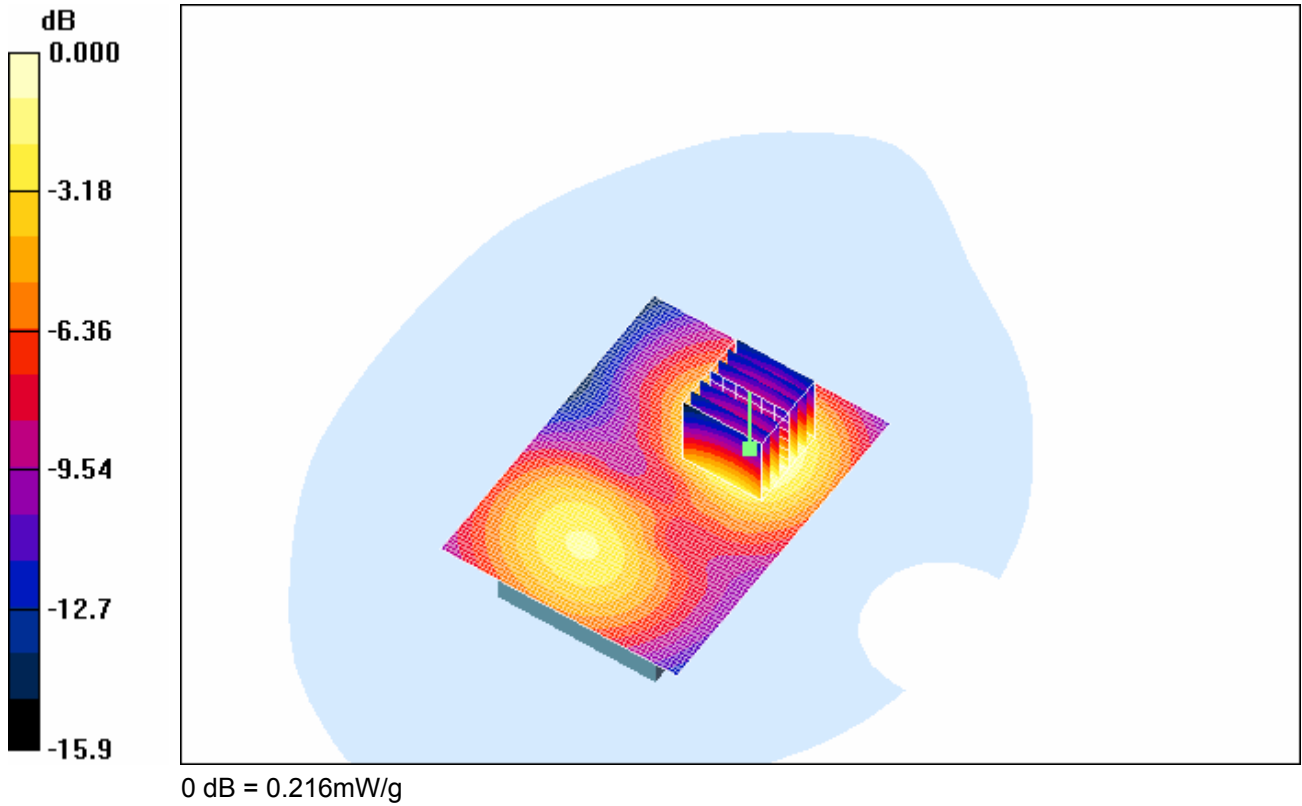
SAR(1 g) = 0.199 mW/g; SAR(10 g) = 0.122 mW/g

Maximum value of SAR (measured) = 0.216 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.219 mW/g

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	Author Data Daoud Attayi	Dates of Test Feb. 05-27, 2007	Test Report No RTS—0628-0702-08

Date/Time: 16/02/2007 9:37:05 AM

Test Laboratory: RTS

Body_Holster2_Back_GPRS1900_Mid_Chan_Amb_Tem_24_8_Liq_Tem_23_3C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.73 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 0.296 W/kg

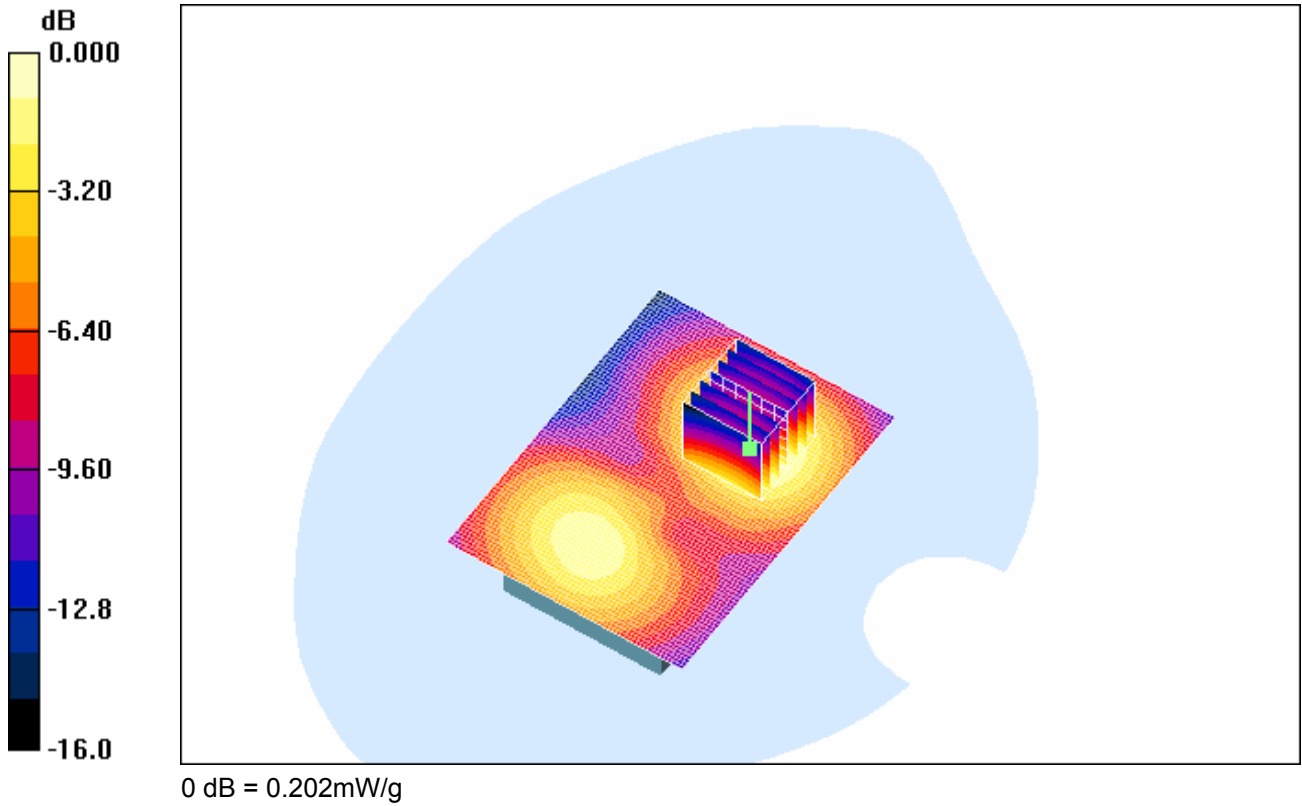
SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.114 mW/g

Maximum value of SAR (measured) = 0.202 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.206 mW/g

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	Author Data Daoud Attayi	Dates of Test Feb. 05-27, 2007	Test Report No RTS—0628-0702-08

Date/Time: 16/02/2007 10:18:47 AM

Test Laboratory: RTS

Body_Holster3_Back_GPRS1900_Mid_Chan_Amb_Tem_24_4_Liq_Tem_23_0C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = 0.096 dB

Peak SAR (extrapolated) = 0.499 W/kg

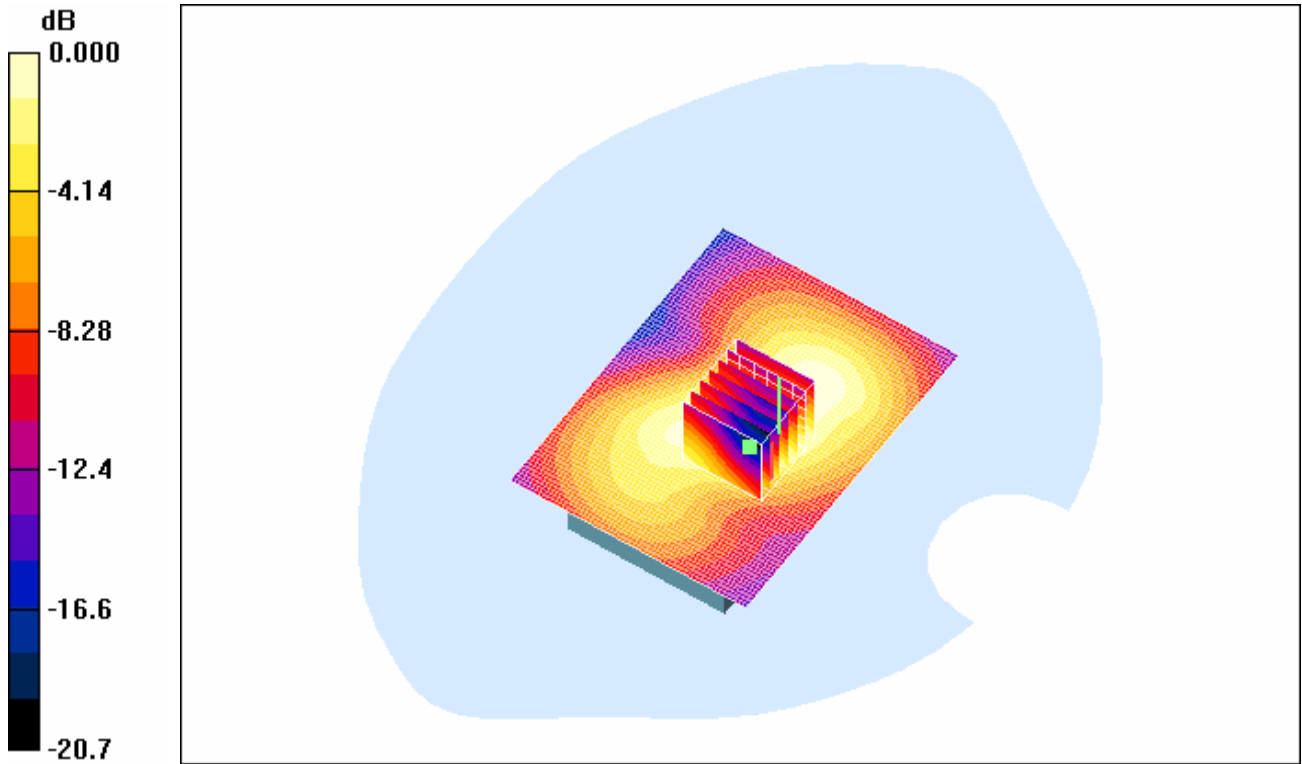
SAR(1 g) = 0.268 mW/g; SAR(10 g) = 0.153 mW/g

Maximum value of SAR (measured) = 0.296 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.303 mW/g

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0 dB = 0.296mW/g

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Date/Time: 16/02/2007 10:38:27 AM

Test Laboratory: RTS

Body_Holster3_Front_GPRS1900_Mid_Chan_Amb_Tem_25_0_Liq_Tem_22_8C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.63 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.370 W/kg

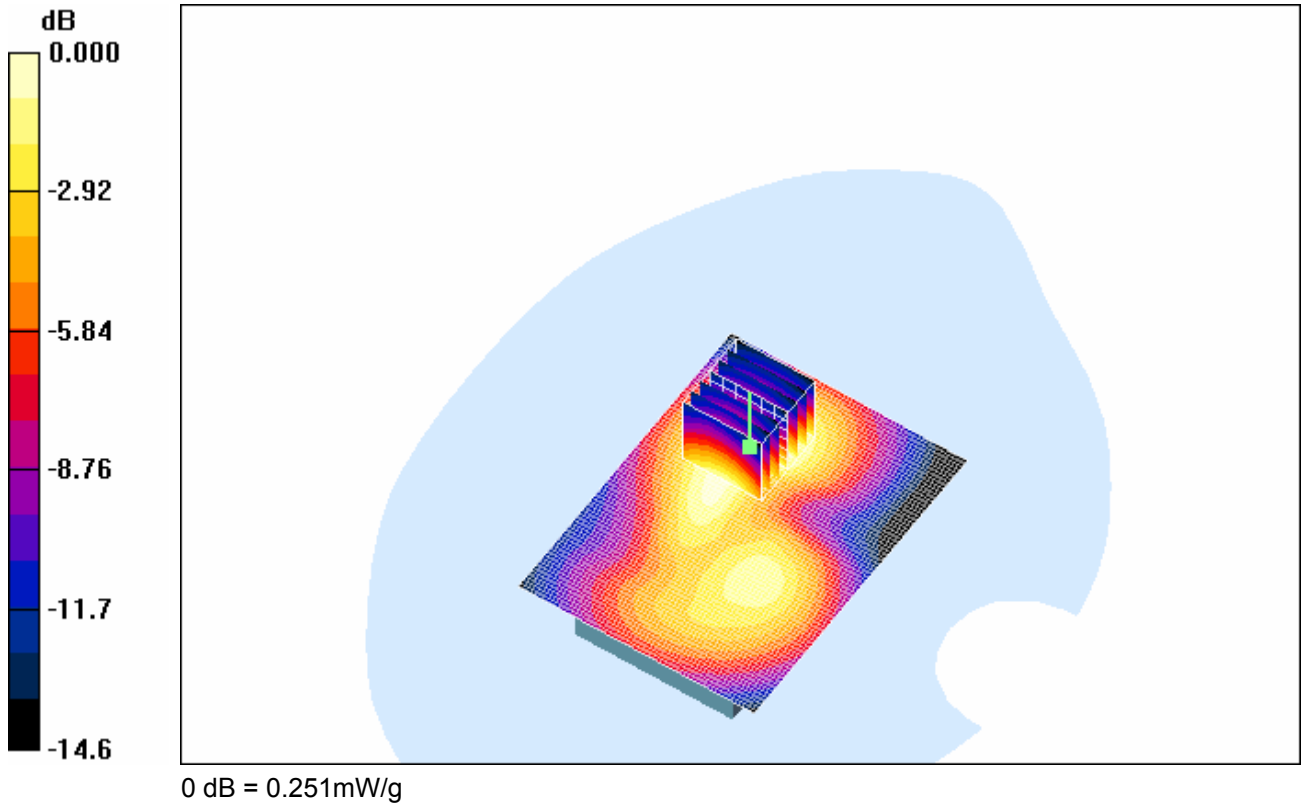
SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.140 mW/g

Maximum value of SAR (measured) = 0.251 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.255 mW/g

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Date/Time: 16/02/2007 11:01:16 AM

Test Laboratory: RTS

Body_Holster3_Back_Headset_GPRS1900_Mid_Chan_Amb_Tem_25_0_Liq_Tem_23_2C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.424 W/kg

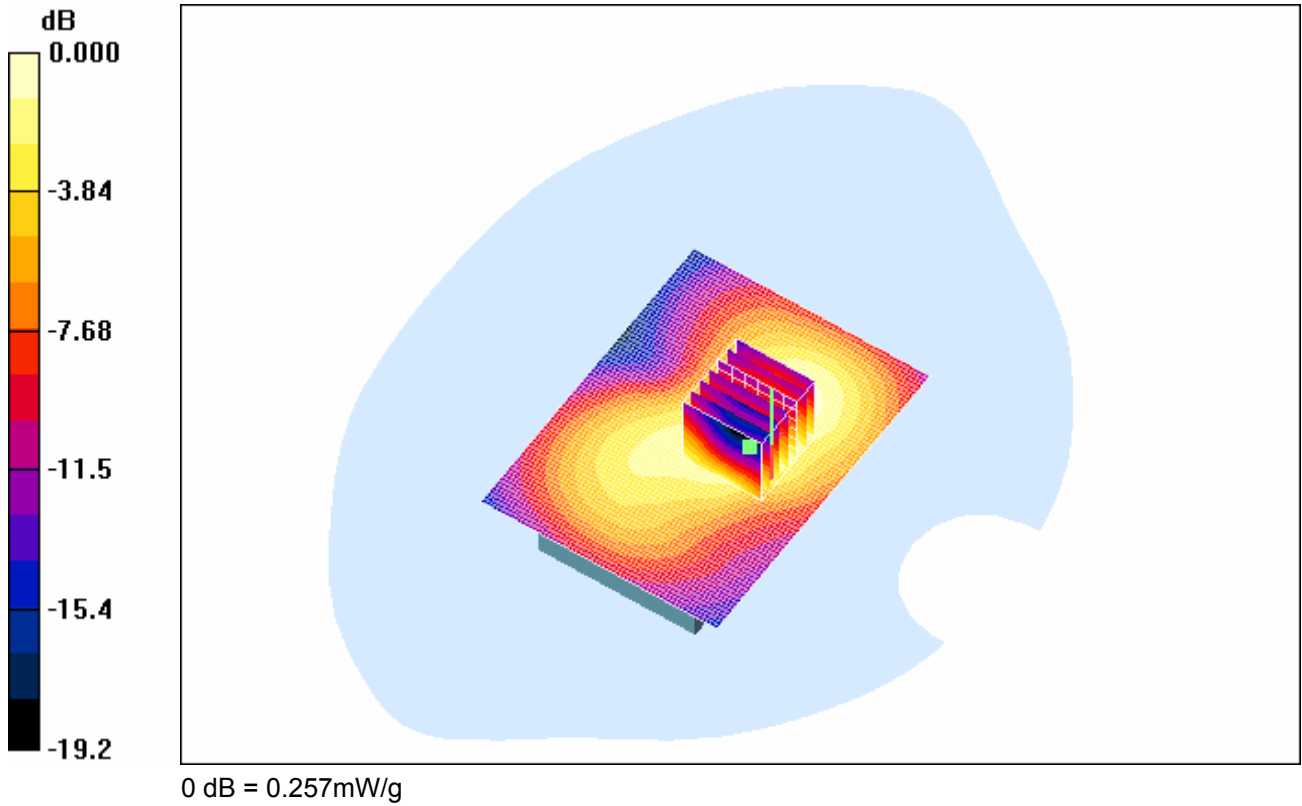
SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.140 mW/g

Maximum value of SAR (measured) = 0.257 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

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Date/Time: 16/02/2007 11:19:25 AM

Test Laboratory: RTS

Body_Holster3_Back_BT_GPRS1900_Mid_Chan_Amb_Tem_25_1_Liq_Tem_23_3C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.93 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 0.401 W/kg

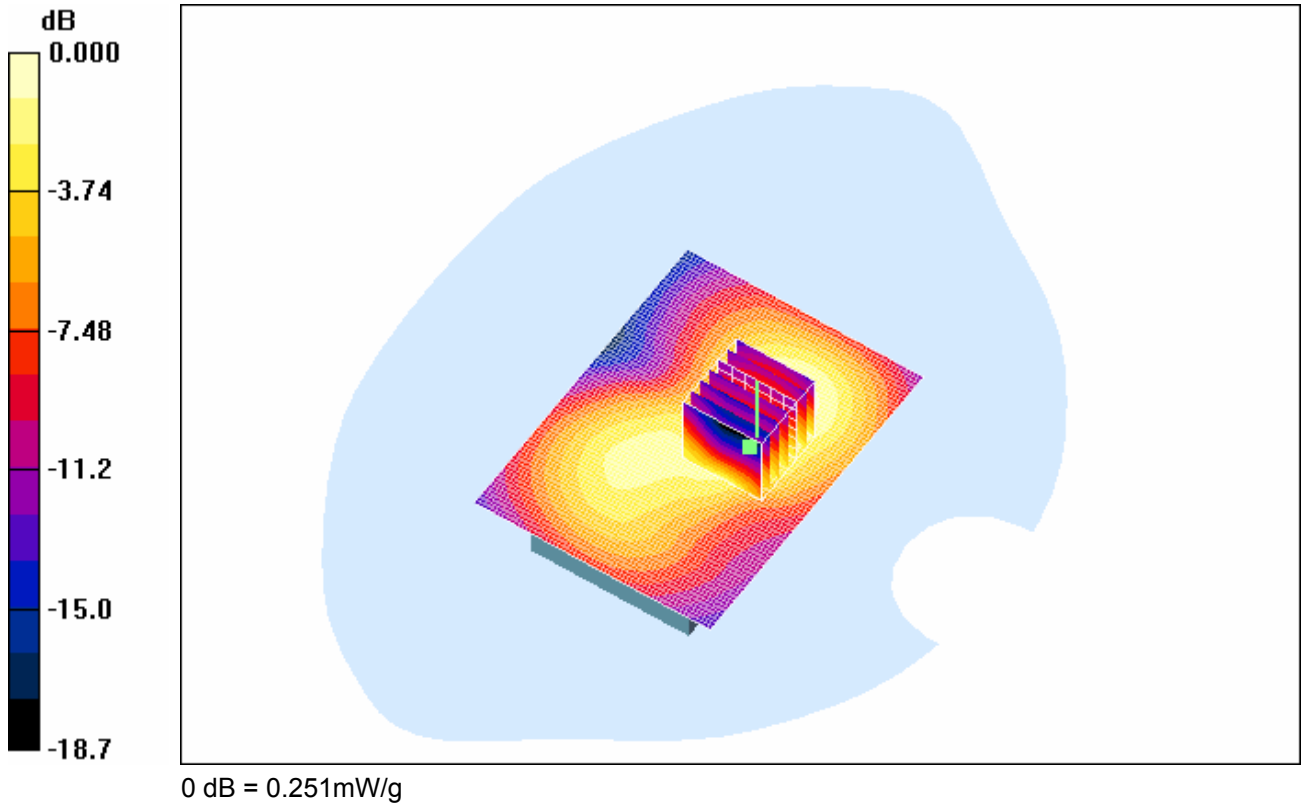
SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.138 mW/g

Maximum value of SAR (measured) = 0.251 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

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Date/Time: 16/02/2007 11:19:25 AM

Test Laboratory: RTS

Body_25mm_Back_GPRS1900_Mid_Chan_Amb_Tem_25_0_Liq_Tem_23_1C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1643; ConvF(4.67, 4.67, 4.67); Calibrated: 16/03/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 2; Type: SAM 4.0; Serial: 1080

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.93 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 0.401 W/kg

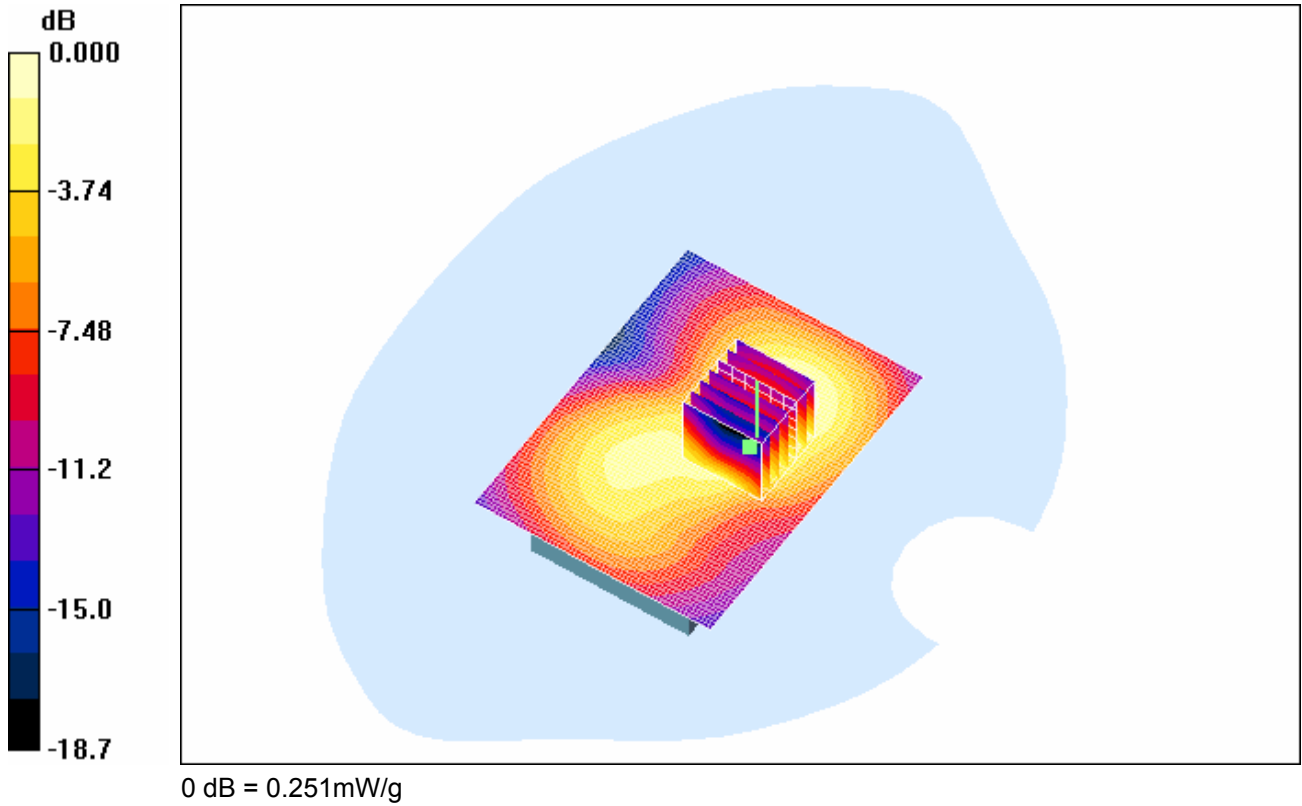
SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.138 mW/g

Maximum value of SAR (measured) = 0.251 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

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Date/Time: 26/02/2007 11:41:13 AM

Test Laboratory: RTS

Body_Holster3_Back_GPRS1900_Rev 03_Mid_Chan_Amb_Tem_25_3_Liq_Tem_23_6C

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.2
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.53 \text{ mho/m}$; $\epsilon_r = 52.1$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

Probe: ET3DV6 - SN1644; ConvF(4.66, 4.66, 4.66); Calibrated: 16/11/2006

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE3 Sn473; Calibrated: 18/01/2007

Phantom: SAM 1; Type: SAM 4.0; Serial: 1076

Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

d=15mm, body SAR/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.9 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.751 W/kg

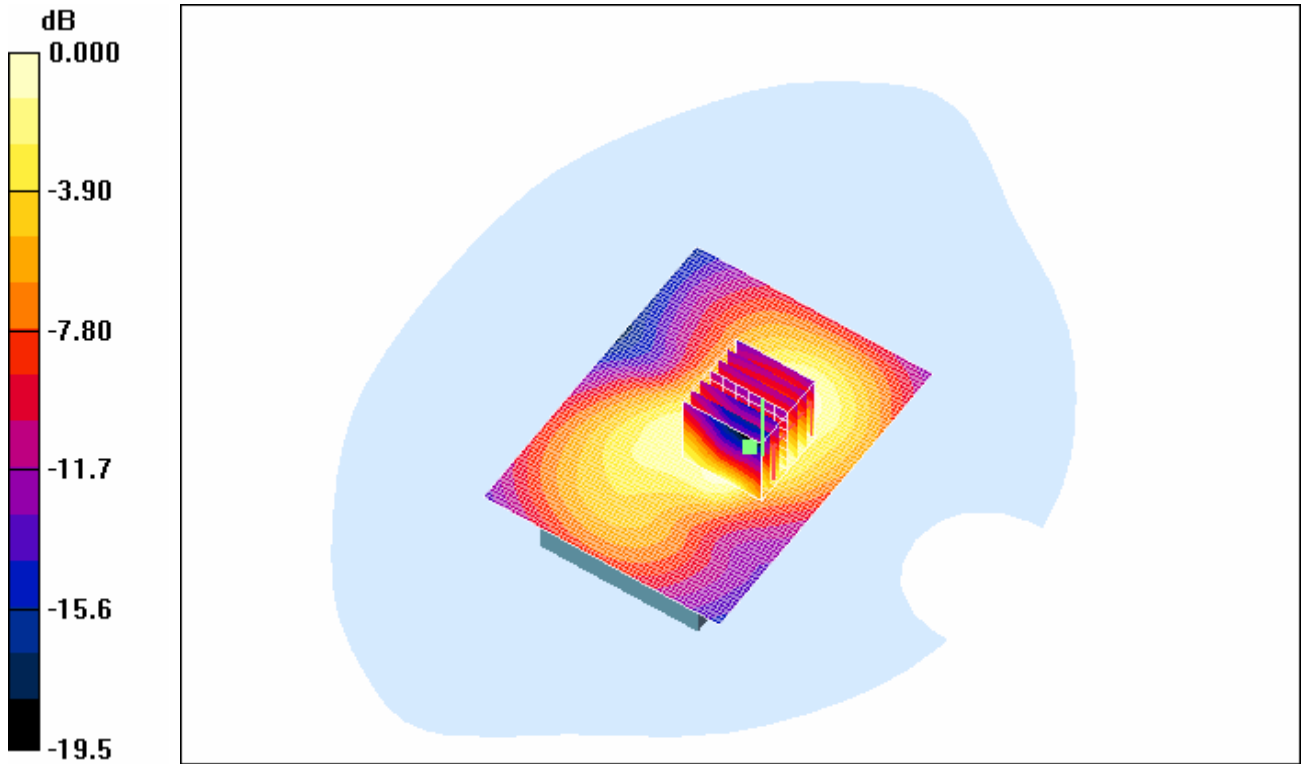
SAR(1 g) = 0.411 mW/g; SAR(10 g) = 0.244 mW/g

Maximum value of SAR (measured) = 0.461 mW/g

d=15mm, body SAR/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.453 mW/g

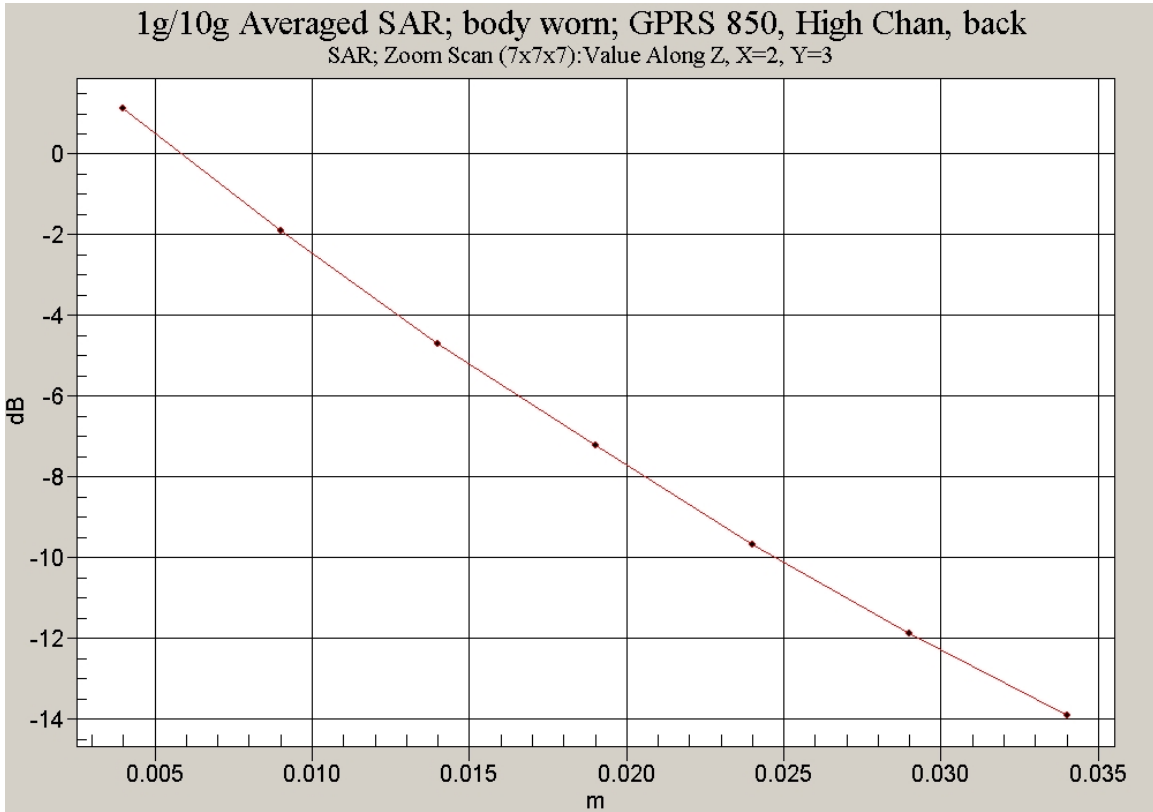
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0 dB = 0.461mW/g

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Z axis plots for the worst case body worn configuration:



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