APPENDIX A: SAR DISTRIBUTION COMPARISON FOR THE ACCURACY VERIFICATION

Date/Time: 06/29/04 11:47:31

Test Laboratory: Research In Motion Limited

835 MHz dipole validation; Amb. Temp. 24.0 deg. cel.; Liquid Temp. 23.2 deg. cel.

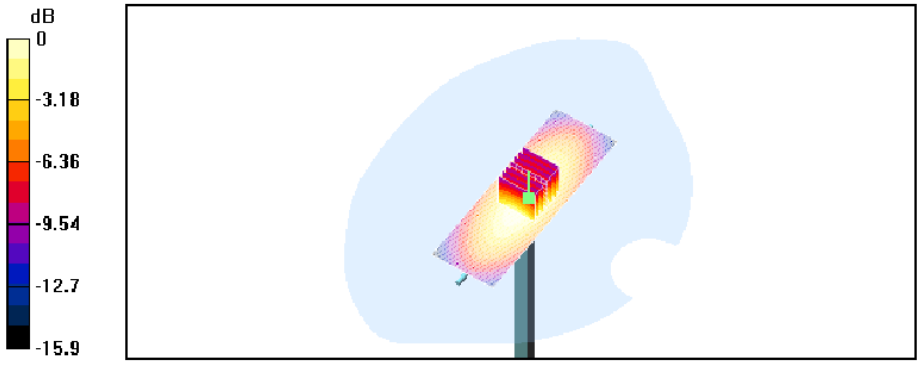
DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: 835 MHz Head Medium parameters used: f = 835 MHz; σ = 0.92 mho/m; ε_r = 43.5; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.5, 6.5, 6.5); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 112.0 V/m; Power Drift = -0.006 dB
Maximum value of SAR (measured) = 10.7 mW/g
Peak SAR (extrapolated) = 14.2 W/kg
SAR(1 g) = 9.81 mW/g; SAR(10 g) = 6.43 mW/g

Unnamed procedure/Area Scan (51x151x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 112.0 V/m; Power Drift = -0.006 dB
Maximum value of SAR (interpolated) = 10.7 mW/g



0 dB = 10.7mW/g

Date/Time: 06/30/04 08:10:51

Test Laboratory: Research In Motion Limited

835 MHz dipole validation; Amb. Temp. 24.7deg. cel.; Liquid Temp. 23.5 deg. cel.

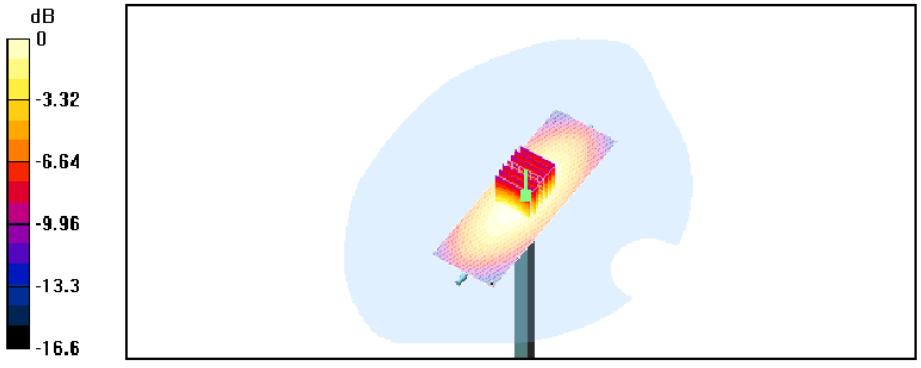
DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:446

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: 835 MHz Head Medium parameters used: f = 835 MHz; σ = 0.92 mho/m; ε_r = 43.5; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.5, 6.5, 6.5); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 112.4 V/m; Power Drift = -0.004 dB
Maximum value of SAR (measured) = 10.8 mW/g
Peak SAR (extrapolated) = 14.3 W/kg
SAR(1 g) = 9.92 mW/g; SAR(10 g) = 6.51 mW/g

Unnamed procedure/Area Scan (51x151x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 112.4 V/m; Power Drift = -0.004 dB
Maximum value of SAR (interpolated) = 10.8 mW/g



0 dB = 10.8mW/g

Date/Time: 07/05/04 11:38:03

Test Laboratory: Research In Motion Limited

Dipole validation 1900 MHz; Ambient temp. 24.2 deg. cel. ; Liquid temp. 22.4 deg. cel

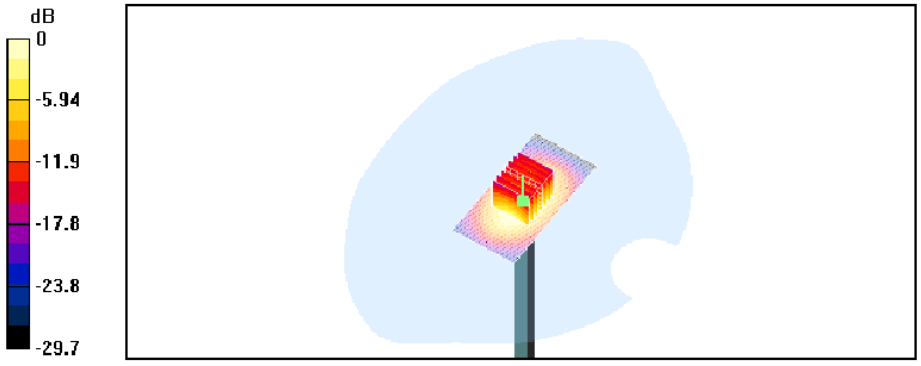
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1900 MHz; σ = 1.47 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(5.2, 5.2, 5.2); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 189.3 V/m; Power Drift = 0.0 dB
Maximum value of SAR (measured) = 47.9 mW/g
Peak SAR (extrapolated) = 74.3 W/kg
SAR(1 g) = 42.1 mW/g; SAR(10 g) = 22 mW/g

Unnamed procedure/Area Scan (51x101x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 189.3 V/m; Power Drift = 0.0 dB
Maximum value of SAR (interpolated) = 48.7 mW/g



0 dB = 48.7mW/g

Date/Time: 07/06/04 15:00:39

Test Laboratory: Research In Motion Limited

Dipole validation 1900 MHz; Ambient temp. 23.7 deg. cel. ; Liquid temp. 22.6 deg. cel

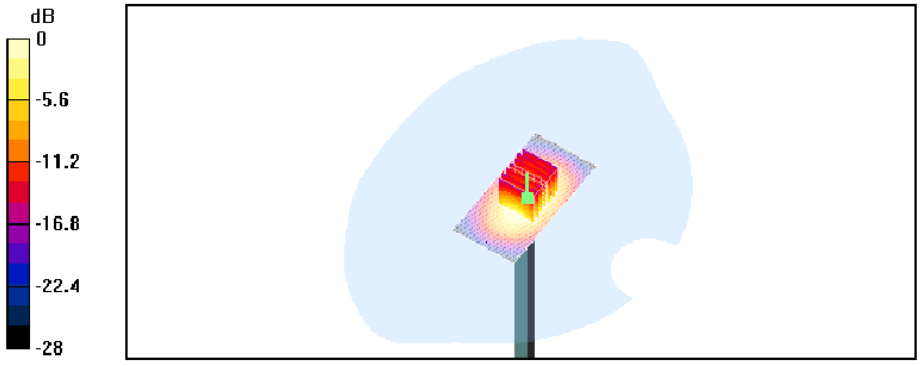
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:545

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1900 MHz; σ = 1.47 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(5.2, 5.2, 5.2); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 189.2 V/m; Power Drift = -0.007 dB
Maximum value of SAR (measured) = 47.9 mW/g
Peak SAR (extrapolated) = 73.8 W/kg
SAR(1 g) = 42.5 mW/g; SAR(10 g) = 22.4 mW/g

Unnamed procedure/Area Scan (51x101x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 189.2 V/m; Power Drift = -0.007 dB
Maximum value of SAR (interpolated) = 49 mW/g



0 dB = 49mW/g

APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

Date/Time: 06/29/04 15:49:38

Test Laboratory: Research In Motion Limited

Touch left; GSM 850 band; Mid Chan; BAT-06860-001 (CS-1) battery; Amb. Temp. 23.2 deg. cel.; Liquid Temp. 22.6 deg. cel.

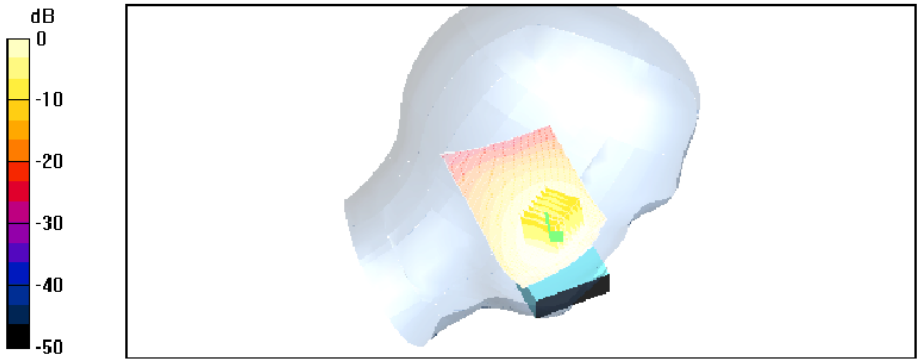
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 850; Frequency: 836.8 MHz;Duty Cycle: 1:8.3
Medium: 835 MHz Head Medium parameters used: f = 836.8 MHz; σ = 0.92 mho/m; ε_r = 43.5; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.5, 6.5, 6.5); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.1 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.831 mW/g
Peak SAR (extrapolated) = 0.996 W/kg
SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.575 mW/g

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 10.1 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.848 mW/g



0 dB = 0.848mW/g

Date/Time: 06/30/04 08:47:18

Test Laboratory: Research In Motion Limited

Tilted left; GSM 850 band; Mid Chan; BAT-06860-001 (CS-1) battery; Amb. Temp. 23.9 deg. cel.; Liquid Temp. 22.7 deg. cel.

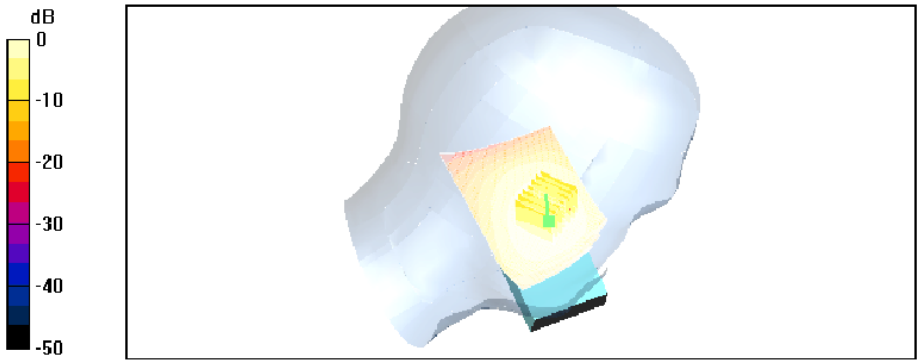
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 850; Frequency: 836.8 MHz;Duty Cycle: 1:8.3
Medium: 835 MHz Head Medium parameters used: f = 836.8 MHz; σ = 0.92 mho/m; ε_r = 43.5; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.5, 6.5, 6.5); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.4 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.499 mW/g
Peak SAR (extrapolated) = 0.575 W/kg
SAR(1 g) = 0.474 mW/g; SAR(10 g) = 0.355 mW/g

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 14.4 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.509 mW/g



0 dB = 0.509mW/g

Date/Time: 06/29/04 12:04:02

Test Laboratory: Research In Motion Limited

Touch right; GSM 850 band; Mid Chan; BAT-06860-001 (CS-1) battery; Amb. Temp. 23.9 deg. cel.; Liquid Temp. 23.0 deg. cel.

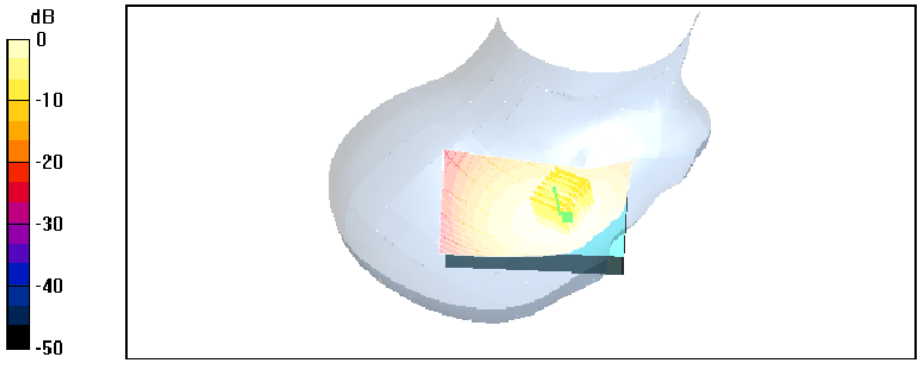
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample;

Communication System: GSM 850; Frequency: 836.8 MHz;Duty Cycle: 1:8.3
Medium: 835 MHz Head Medium parameters used: f = 836.8 MHz; σ = 0.92 mho/m; ε_r = 43.5; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.5, 6.5, 6.5); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.3 V/m; Power Drift = -0.2 dB
Maximum value of SAR (measured) = 0.905 mW/g
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.857 mW/g; SAR(10 g) = 0.629 mW/g

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 14.3 V/m; Power Drift = -0.2 dB
Maximum value of SAR (interpolated) = 0.925 mW/g



0 dB = 0.925mW/g

Date/Time: 06/29/04 12:53:59

Test Laboratory: Research In Motion Limited

Tilted right; GSM 850 band; Mid Chan; BAT-06860-001 (CS-1) battery; Amb. Temp. 23.8 deg. cel.; Liquid Temp. 23.1 deg. cel.

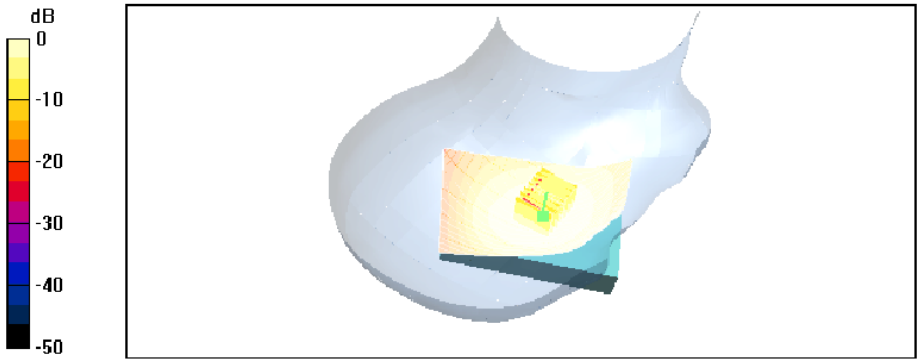
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 850; Frequency: 836.8 MHz;Duty Cycle: 1:8.3
Medium: 835 MHz Head Medium parameters used: f = 836.8 MHz; σ = 0.92 mho/m; ε_r = 43.5; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.5, 6.5, 6.5); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.8 V/m; Power Drift = 0.0 dB
Maximum value of SAR (measured) = 0.444 mW/g
Peak SAR (extrapolated) = 0.518 W/kg
SAR(1 g) = 0.422 mW/g; SAR(10 g) = 0.316 mW/g

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 14.8 V/m; Power Drift = 0.0 dB
Maximum value of SAR (interpolated) = 0.441 mW/g



0 dB = 0.441mW/g

Date/Time: 06/29/04 13:39:29

Test Laboratory: Research In Motion Limited

Touch right; GSM 850 band; Mid Chan; BAT-06860-001 (CS-2) battery; Amb. Temp. 23.8 deg. cel.; Liquid Temp. 23.0 deg. cel.

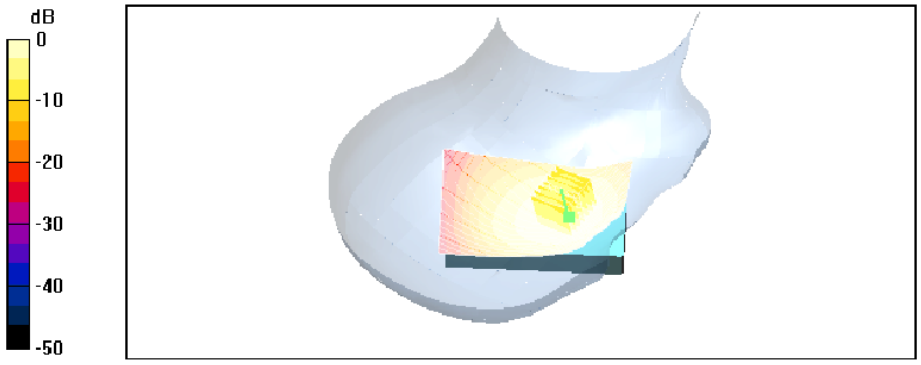
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 850; Frequency: 836.8 MHz;Duty Cycle: 1:8.3
Medium: 835 MHz Head Medium parameters used: f = 836.8 MHz; σ = 0.92 mho/m; ε_r = 43.5; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.5, 6.5, 6.5); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.6 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.855 mW/g
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.813 mW/g; SAR(10 g) = 0.595 mW/g

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 12.6 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.876 mW/g



0 dB = 0.876mW/g

Date/Time: 06/29/04 14:16:19

Test Laboratory: Research In Motion Limited

Touch right; GSM 850 band; Mid Chan; BAT-06685-001 (CH-1) higher capacity battery; Amb. Temp. 23.6 deg. cel.; Liquid Temp. 22.9 deg. cel.

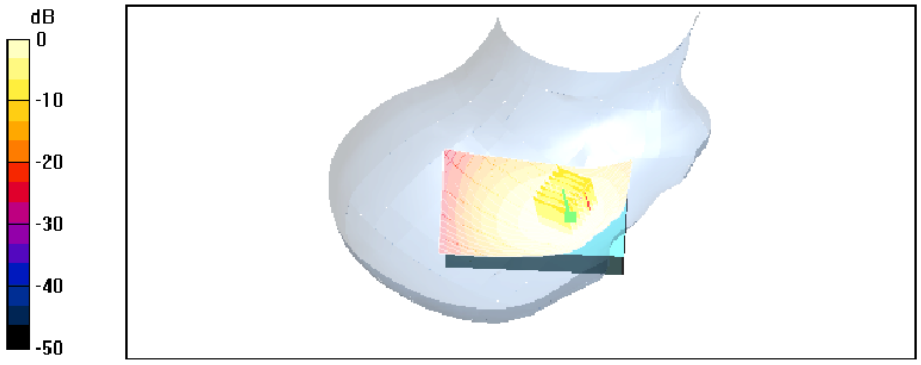
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 850; Frequency: 836.8 MHz;Duty Cycle: 1:8.3
Medium: 835 MHz Head Medium parameters used: f = 836.8 MHz; σ = 0.92 mho/m; ε_r = 43.5; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.5, 6.5, 6.5); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.5 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.854 mW/g
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.810 mW/g; SAR(10 g) = 0.591 mW/g

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 11.5 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.866 mW/g



0 dB = 0.866mW/g

Date/Time: 06/29/04 15:04:16

Test Laboratory: Research In Motion Limited

Touch right; GSM 850 band; Mid Chan; BAT-06860-001 (CS-1) battery and Bluetooth ON; Amb. Temp. 23.2 deg. cel.; Liquid Temp. 22.6 deg. cel.

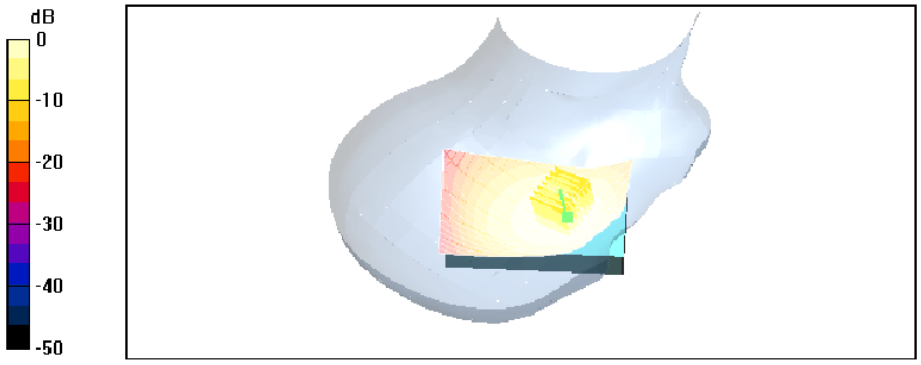
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 850; Frequency: 836.8 MHz;Duty Cycle: 1:8.3
Medium: 835 MHz Head Medium parameters used: f = 836.8 MHz; σ = 0.92 mho/m; ε_r = 43.5; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.5, 6.5, 6.5); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.3 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.893 mW/g
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.845 mW/g; SAR(10 g) = 0.622 mW/g

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 14.3 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.903 mW/g



0 dB = 0.903mW/g

Date/Time: 07/06/04 09:25:25

Test Laboratory: Research In Motion Limited

Touch left; Mid Chan; GSM 1900 band; BAT-06685-001 (CH-1) battery; Ambient temp. 25.0 deg. cel. ; Liquid temp. 23.2 deg. cel

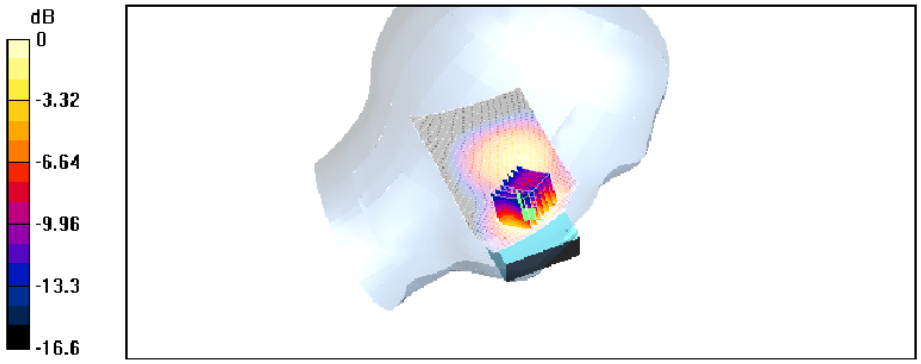
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.47 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(5.2, 5.2, 5.2); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 10.4 V/m; Power Drift = -0.2 dB
Maximum value of SAR (interpolated) = 0.733 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.4 V/m; Power Drift = -0.2 dB
Maximum value of SAR (measured) = 0.717 mW/g
Peak SAR (extrapolated) = 0.985 W/kg
SAR(1 g) = 0.555 mW/g; SAR(10 g) = 0.396 mW/g



0 dB = 0.717mW/g

Date/Time: 07/06/04 11:41:27

Test Laboratory: Research In Motion Limited

Tilted left; Mid Chan; GSM 1900 band; BAT-06685-001 (CH-1) battery; Ambient temp. 24.9 deg. cel. ; Liquid temp. 23.2 deg. cel

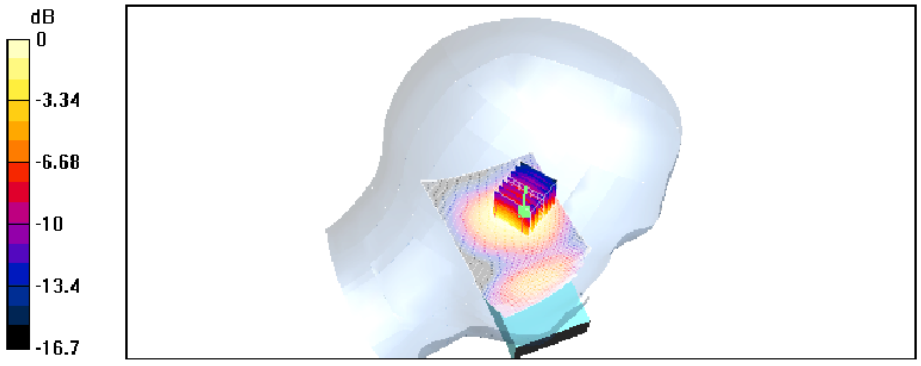
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.47 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(5.2, 5.2, 5.2); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 16.3 V/m; Power Drift = -0.0 dB
Maximum value of SAR (interpolated) = 0.519 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.3 V/m; Power Drift = -0.0 dB
Maximum value of SAR (measured) = 0.515 mW/g
Peak SAR (extrapolated) = 0.686 W/kg
SAR(1 g) = 0.473 mW/g; SAR(10 g) = 0.292 mW/g



0 dB = 0.515mW/g

Date/Time: 07/05/04 12:14:44

Test Laboratory: Research In Motion Limited

Touch right; Mid Chan; GSM 1900 band; BAT-06860-001 (CS-1) battery; Ambient temp. 25.2 deg. cel. ; Liquid temp. 22.6 deg. cel

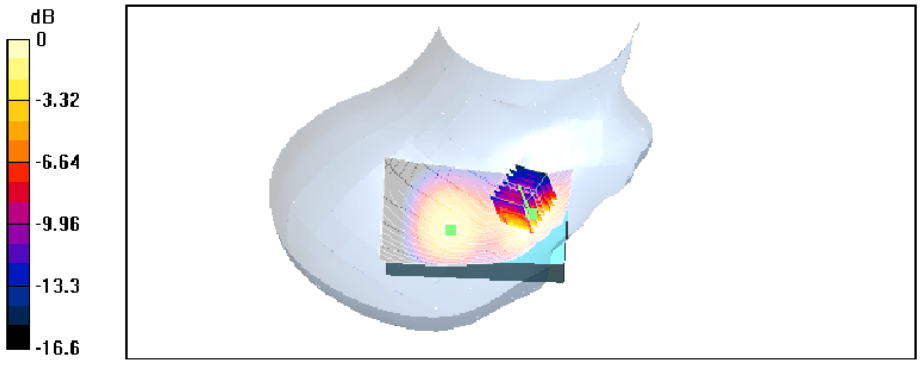
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.47 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(5.2, 5.2, 5.2); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 13.3 V/m; Power Drift = -0.0 dB
Maximum value of SAR (interpolated) = 0.628 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.3 V/m; Power Drift = -0.0 dB
Maximum value of SAR (measured) = 0.624 mW/g
Peak SAR (extrapolated) = 0.840 W/kg
SAR(1 g) = 0.570 mW/g; SAR(10 g) = 0.339 mW/g



0 dB = 0.624mW/g

Date/Time: 07/05/04 16:16:48

Test Laboratory: Research In Motion Limited

Tilted right; Mid Chan; GSM 1900 band; BAT-06685-001 (CH-1) battery; Ambient temp. 24.9 deg. cel. ; Liquid temp. 22.7 deg. cel

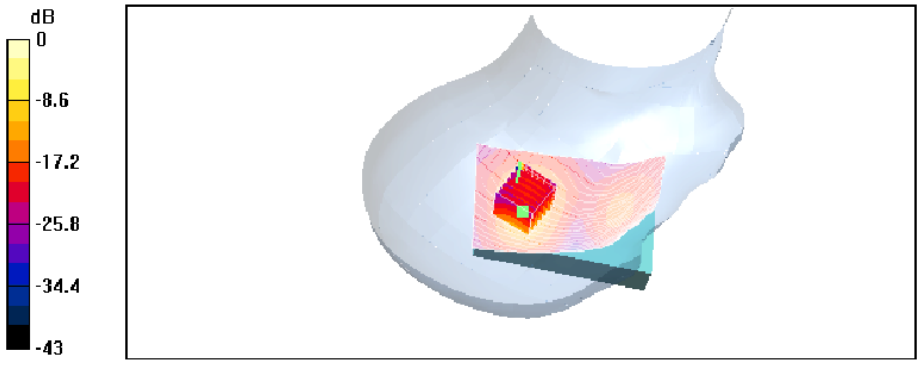
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.47 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(5.2, 5.2, 5.2); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 14.9 V/m; Power Drift = 0.0 dB
Maximum value of SAR (interpolated) = 0.306 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.9 V/m; Power Drift = 0.0 dB
Maximum value of SAR (measured) = 3.92 mW/g
Peak SAR (extrapolated) = 3.92 W/kg
SAR(1 g) = 0.277 mW/g; SAR(10 g) = 0.176 mW/g



0 dB = 3.92mW/g

Date/Time: 07/05/04 13:40:56

Test Laboratory: Research In Motion Limited

Touch right; Mid Chan; GSM 1900 band; BAT-06860-001 (CS-2) battery; Ambient temp. 25.3 deg. cel. ; Liquid temp. 22.7 deg. cel

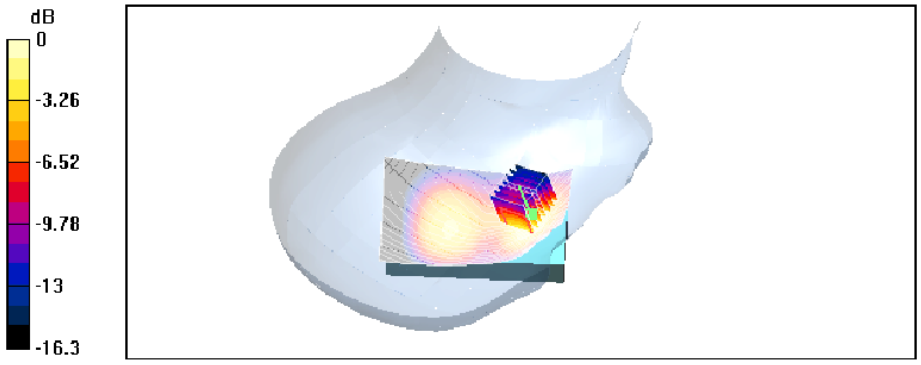
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.47 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(5.2, 5.2, 5.2); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 13.2 V/m; Power Drift = -0.0 dB
Maximum value of SAR (interpolated) = 0.616 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.2 V/m; Power Drift = -0.0 dB
Maximum value of SAR (measured) = 0.610 mW/g
Peak SAR (extrapolated) = 0.834 W/kg
SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.333 mW/g



0 dB = 0.610mW/g

Date/Time: 07/05/04 14:27:12

Test Laboratory: Research In Motion Limited

Touch right; Mid Chan; GSM 1900 band; BAT-06685-001 (CH-1) battery; Ambient temp. 25.1 deg. cel. ; Liquid temp. 22.5 deg. cel

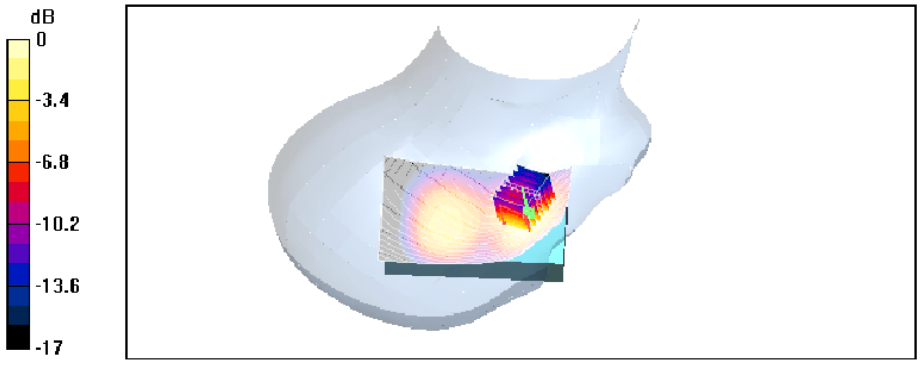
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.47 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(5.2, 5.2, 5.2); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 14 V/m; Power Drift = -0.0 dB
Maximum value of SAR (interpolated) = 0.696 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14 V/m; Power Drift = -0.0 dB
Maximum value of SAR (measured) = 0.705 mW/g
Peak SAR (extrapolated) = 0.920 W/kg
SAR(1 g) = 0.632 mW/g; SAR(10 g) = 0.381 mW/g



0 dB = 0.705mW/g

Date/Time: 07/05/04 15:38:30

Test Laboratory: Research In Motion Limited

Touch right; Mid Chan; GSM 1900 band; BAT-06685-001 (CH-1) battery and Bluetooth ON; Ambient temp. 25.0 deg. cel. ; Liquid temp. 22.8 deg. cel

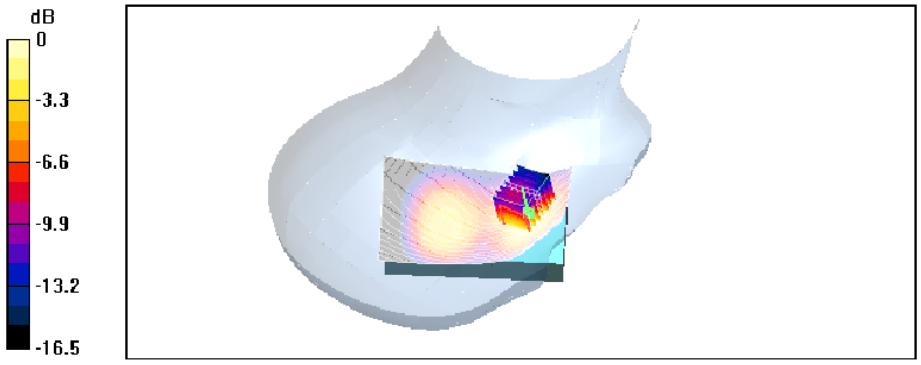
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.47 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(5.2, 5.2, 5.2); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

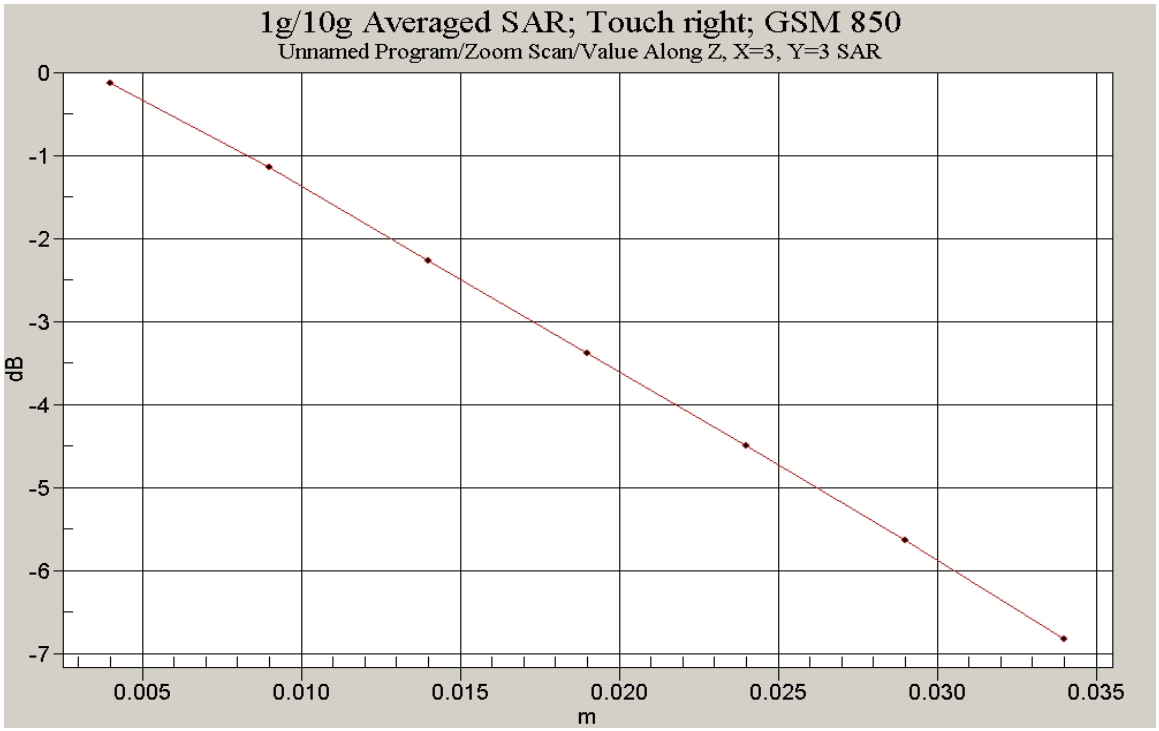
Unnamed procedure/Area Scan (81x131x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 14.1 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.690 mW/g

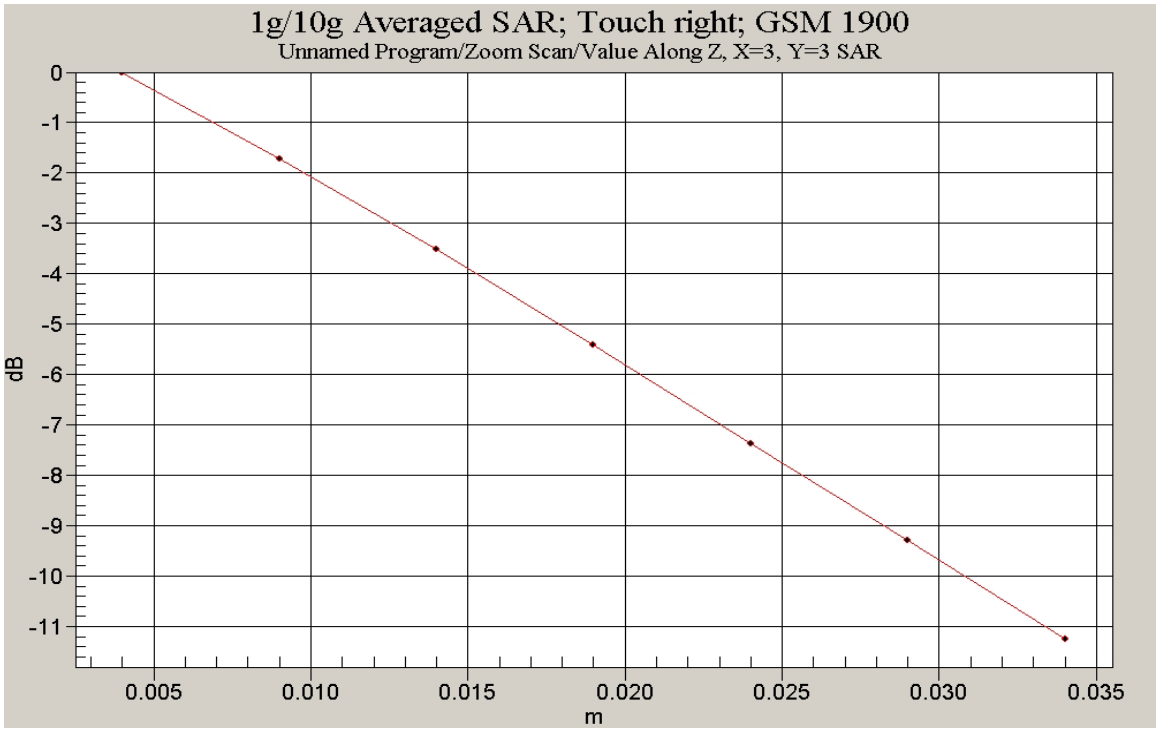
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.1 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.700 mW/g
Peak SAR (extrapolated) = 0.921 W/kg
SAR(1 g) = 0.634 mW/g; SAR(10 g) = 0.381 mW/g



0 dB = 0.700mW/g

Z-axis plots for worst-case configuration:





APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

Date/Time: 06/30/04 11:02:33

Test Laboratory: Research In Motion Limited

Body-worn with holster; GSM 850 band; Low Chan; BAT-06860-001 (CS-1) battery; Amb. Temp. 23.5 deg. cel.; Liquid Temp. 22.3 deg. cel

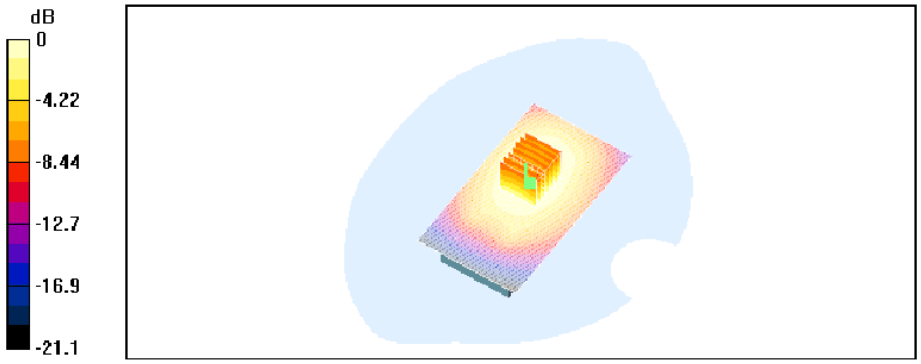
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 850; Frequency: 824 MHz;Duty Cycle: 1:8.3
Medium: M 835 Medium parameters used (extrapolated): f = 824 MHz; σ = 0.98 mho/m; ε_r = 53.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.3, 6.3, 6.3); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 30 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 1.05 mW/g
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.987 mW/g; SAR(10 g) = 0.710 mW/g

Unnamed procedure/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 30 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 1.08 mW/g



0 dB = 1.08mW/g

Date/Time: 06/30/04 12:19:06

Test Laboratory: Research In Motion Limited

Body-worn with holster; GSM 850 band; Low Chan; BAT-06860-001 (CS-2) battery; Amb. Temp. 23.3 deg. cel.; Liquid Temp. 22.4 deg. cel

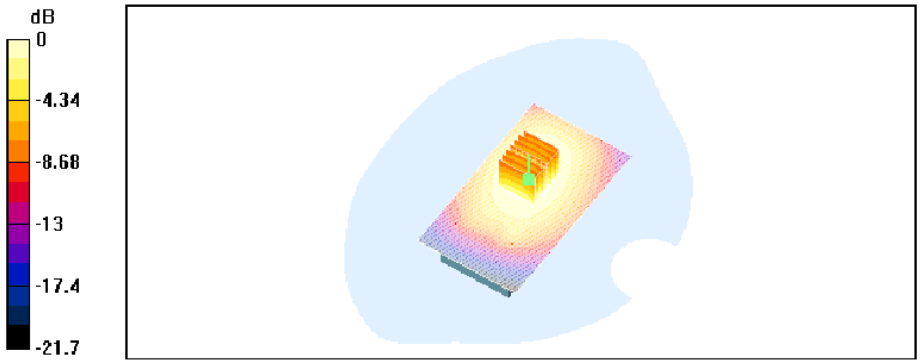
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: M 835 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.98 mho/m; ε_r = 53.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.3, 6.3, 6.3); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 30.4 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 1.09 mW/g
Peak SAR (extrapolated) = 1.4 W/kg
SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.744 mW/g

Unnamed procedure/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 30.4 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 1.12 mW/g



0 dB = 1.12mW/g

Date/Time: 06/30/04 13:10:31

Test Laboratory: Research In Motion Limited

Body-worn with holster; GSM 850 band; Low Chan; BAT-06685-001 (CH-1) battery; Amb. Temp. 23.1 deg. cel.; Liquid Temp. 22.3 deg. cel

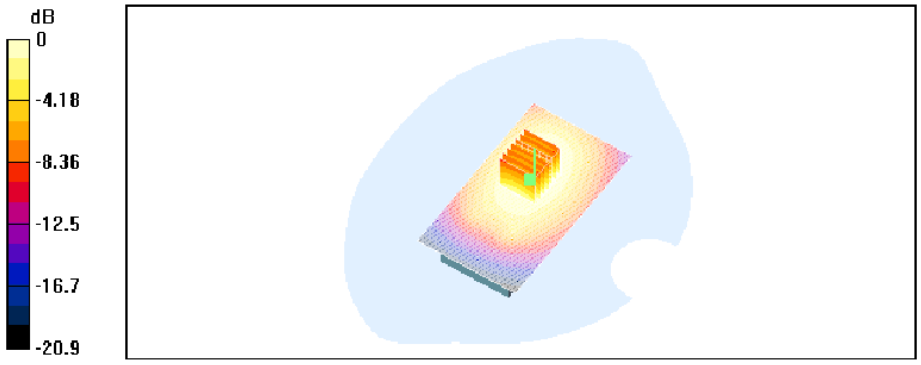
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: M 835 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.98 mho/m; ε_r = 53.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.3, 6.3, 6.3); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.4 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.984 mW/g
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.923 mW/g; SAR(10 g) = 0.661 mW/g

Unnamed procedure/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 28.4 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.995 mW/g



0 dB = 0.995mW/g

Date/Time: 06/30/04 13:58:31

Test Laboratory: Research In Motion Limited

Body-worn with holster; GSM 850 band; Low Chan; BAT-06860-001 (CS-2) battery; with Bluetooth ON and headset; Amb. Temp. 23.0 deg. cel.; Liquid Temp. 22.2 deg. cel

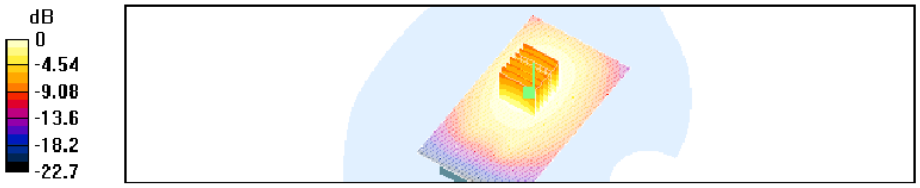
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: M 835 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.98 mho/m; ε_r = 53.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(6.3, 6.3, 6.3); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 23/10/2002
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.2 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.929 mW/g
Peak SAR (extrapolated) = 1.15 W/kg
SAR(1 g) = 0.871 mW/g; SAR(10 g) = 0.631 mW/g

Unnamed procedure/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 28.2 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.946 mW/g



0 dB = 0.946mW/g

Date/Time: 07/06/04 16:33:12

Test Laboratory: Research In Motion Limited

Body worn with holster; Mid Chan; GSM 1900 band; BAT-06860-001 (CS-1) battery; Ambient temp. 23.5 deg. cel. ; Liquid temp. 22.0 deg. cel

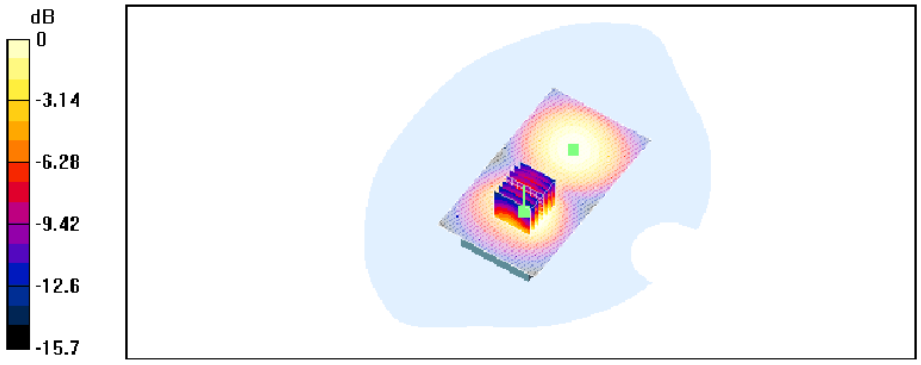
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: PCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.56 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(4.8, 4.8, 4.8); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 16.1 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.677 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.1 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.644 mW/g
Peak SAR (extrapolated) = 0.866 W/kg
SAR(1 g) = 0.588 mW/g; SAR(10 g) = 0.375 mW/g



0 dB = 0.644mW/g

Date/Time: 07/06/04 17:22:09

Test Laboratory: Research In Motion Limited

Body worn with holster; Mid Chan; GSM 1900 band; BAT-06860-001 (CS-1) Sanyo GS battery; Ambient temp. 23.9 deg. cel. ; Liquid temp. 22.2 deg. cel

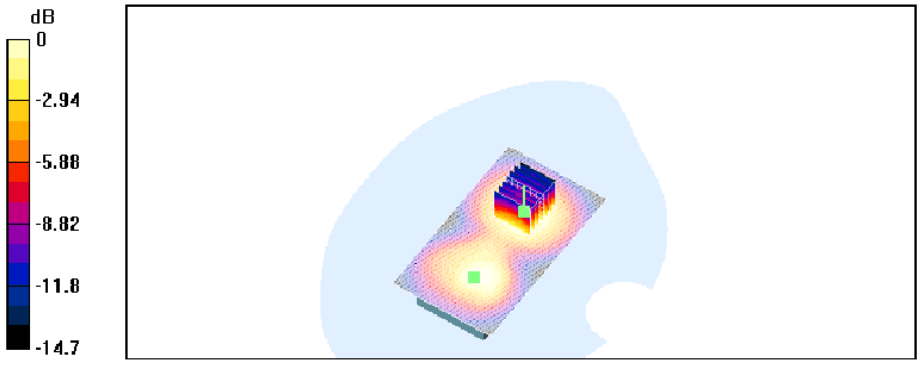
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: PCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.56 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(4.8, 4.8, 4.8); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 13.6 V/m; Power Drift = -0.0 dB
Maximum value of SAR (interpolated) = 0.662 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.6 V/m; Power Drift = -0.0 dB
Maximum value of SAR (measured) = 0.653 mW/g
Peak SAR (extrapolated) = 0.939 W/kg
SAR(1 g) = 0.605 mW/g; SAR(10 g) = 0.377 mW/g



0 dB = 0.653mW/g

Date/Time: 07/07/04 11:15:28

Test Laboratory: Research In Motion Limited

Body worn with holster; Mid Chan; GSM 1900 band; BAT-06685-001 (CH-1) higher cap battery; Ambient temp. 23.0 deg. cel. ; Liquid temp. 22.1 deg. cel

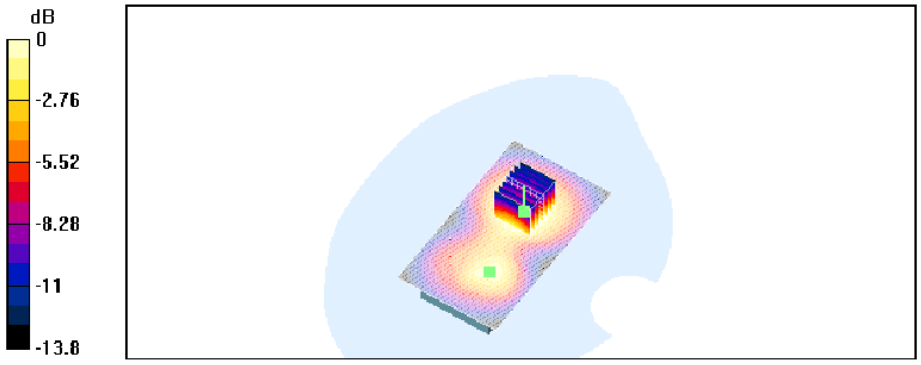
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: PCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.56 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(4.8, 4.8, 4.8); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 14.5 V/m; Power Drift = -0.1 dB
Maximum value of SAR (interpolated) = 0.512 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.5 V/m; Power Drift = -0.1 dB
Maximum value of SAR (measured) = 0.513 mW/g
Peak SAR (extrapolated) = 0.723 W/kg
SAR(1 g) = 0.474 mW/g; SAR(10 g) = 0.303 mW/g



0 dB = 0.513mW/g

Date/Time: 07/07/04 12:08:42

Test Laboratory: Research In Motion Limited

Body worn with holster; Mid Chan; GSM 1900 band; BAT-06860-001 (CS-1) Sanyo GS battery with headset and Bluetooth ON; Ambient temp. 23.1 deg. cel. ; Liquid temp. 22.1 deg. cel

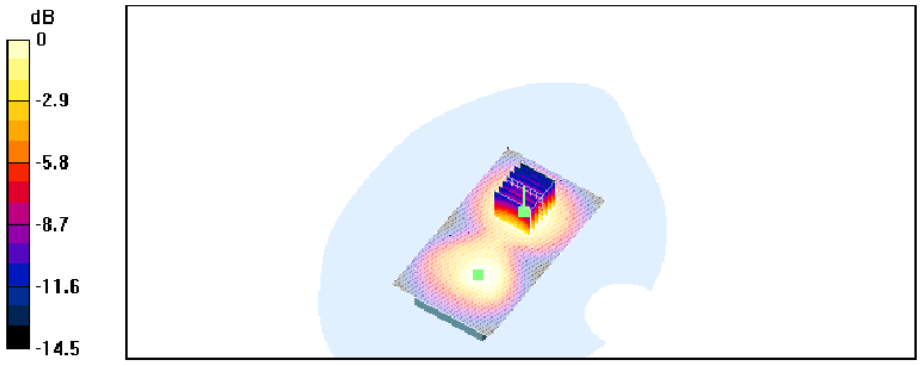
DUT: BlackBerry 7100 Wireless Handheld Model RAQ40GW; Type: Sample

Communication System: PCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.56 mho/m; ε_r = 50.4; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1643; ConvF(4.8, 4.8, 4.8); Calibrated: 09/10/2003
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 09/10/2003
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Unnamed procedure/Area Scan (81x141x1): Measurement grid: dx=10mm, dy=10mm
Reference Value = 14.8 V/m; Power Drift = 0.0 dB
Maximum value of SAR (interpolated) = 0.671 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.8 V/m; Power Drift = 0.0 dB
Maximum value of SAR (measured) = 0.676 mW/g
Peak SAR (extrapolated) = 0.971 W/kg
SAR(1 g) = 0.625 mW/g; SAR(10 g) = 0.392 mW/g



0 dB = 0.676mW/g

Z-axis plots for worst-case configuration: