APPENDIX A: SAR DISTRIBUTION COMPARISON FOR ACCURACY VERIFICATION

Date/Time: 24/08/2005 10:19:41 AMDate/Time: 24/08/2005 10:15:44 AM

Lab: RIM Testing Services (RTS)

1900MHz_Validation_Ambient_Temp_24_2_C_Liquid_Temp_23_4_C_08-24-2005

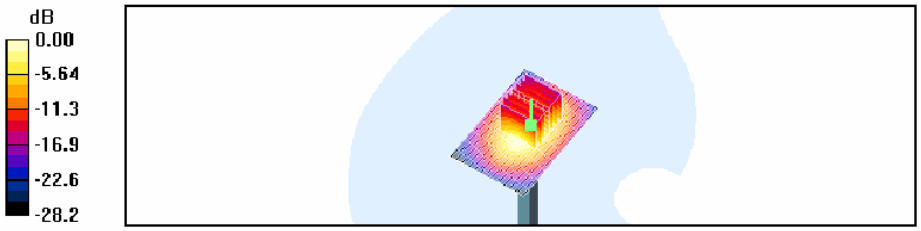
DUT: Dipole 1900 MHz; Type: D1900V2

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1900 MHz; σ = 1.42 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 196.4 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 76.2 W/kg
SAR(1 g) = 43 mW/g; SAR(10 g) = 22.4 mW/g
Maximum value of SAR (measured) = 48.6 mW/g

Dipole Validation/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 51.3 mW/g



0 dB = 51.3mW/g

Date/Time: 29/10/2005 4:09:23 PM

Test Laboratory: RTS

1900MHz_Validation_Ambient_Temp_24.3_C_Liquid_Temp_23.4_C

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

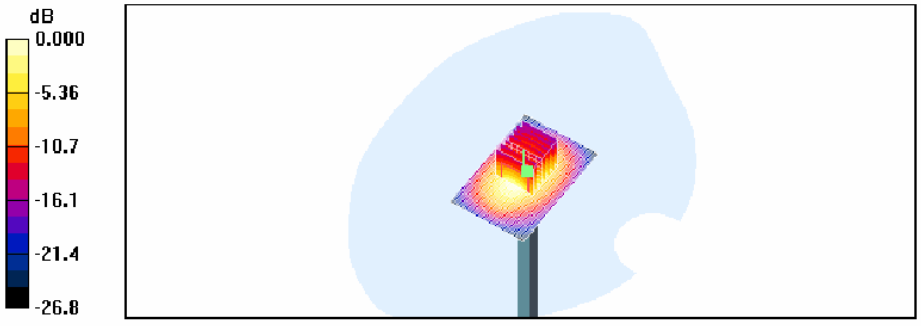
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.4 mho/m; ε_r = 38.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 14/03/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 190.2 V/m; Power Drift = 0.019 dB
Peak SAR (extrapolated) = 71.3 W/kg
SAR(1 g) = 40.8 mW/g; SAR(10 g) = 21.4 mW/g
Maximum value of SAR (measured) = 46.1 mW/g

Dipole Validation/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 47.8 mW/g



0 dB = 47.8mW/g

Date/Time: 29/08/2005 10:33:24 AMDate/Time: 29/08/2005 10:26:42 AM

Lab: RIM Testing Services (RTS)

835MHz_Validation_Ambient_Temp_22_6_C_Liquid_Temp_21_7_C_08-29-2005

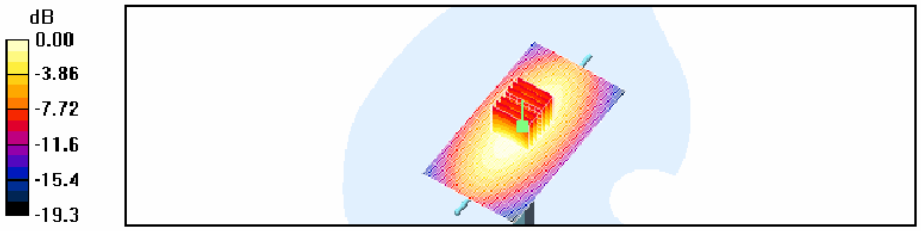
DUT: Dipole 835 MHz; Type: D835V2

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: 835 MHz Head Medium parameters used: f = 835 MHz; σ = 0.93 mho/m; ε_r = 42.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(6.52, 6.52, 6.52); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 111.6 V/m; Power Drift = 0.012 dB
Peak SAR (extrapolated) = 14.7 W/kg
SAR(1 g) = 9.87 mW/g; SAR(10 g) = 6.42 mW/g
Maximum value of SAR (measured) = 10.7 mW/g

Dipole Validation/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 10.7 mW/g



0 dB = 10.7mW/g

Date/Time: 28/10/2005 9:32:51 AM

Test Laboratory: RTS

835MHz_Validation_Ambient_Temp_24_3_C_Liquid_Temp_23_2_C_10-28-2005

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

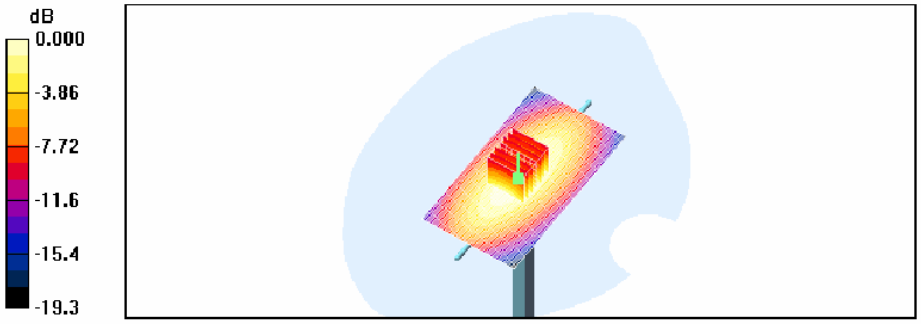
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.89 mho/m; ε_r = 41.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.52, 6.52, 6.52); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 14/03/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Dipole Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 110.7 V/m; Power Drift = -0.076 dB
Peak SAR (extrapolated) = 13.5 W/kg
SAR(1 g) = 9.14 mW/g; SAR(10 g) = 5.95 mW/g
Maximum value of SAR (measured) = 9.91 mW/g

Dipole Validation/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 9.99 mW/g



0 dB = 9.99mW/g

APPENDIX B: SAR DISTRIBUTION PLOTS FOR HEAD CONFIGURATION

Date/Time: 24/08/2005 2:00:41 PMDate/Time: 24/08/2005 2:08:07 PM

Lab: RIM Testing Services (RTS)

Left_Touch_GSM1900_Mid_Chan_Ambient_Temp_24_4_C_Liquid_Temp_23_5_C

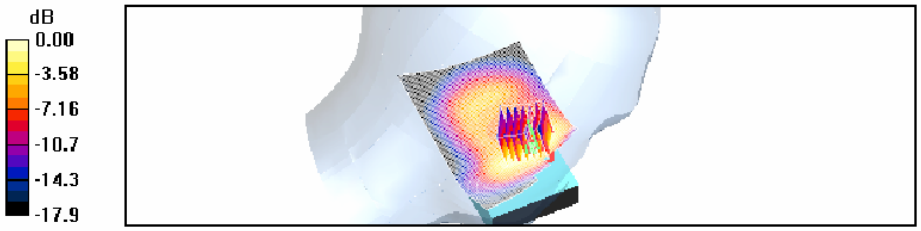
DUT: BlackBerry Wireless Handheld ; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.954 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.6 V/m; Power Drift = -0.033 dB
Peak SAR (extrapolated) = 1.20 W/kg
SAR(1 g) = 0.853 mW/g; SAR(10 g) = 0.510 mW/g
Maximum value of SAR (measured) = 0.926 mW/g



0 dB = 0.926mW/g

Date/Time: 24/08/2005 4:09:33 PMDate/Time: 24/08/2005 4:17:02 PM

Lab: RIM Testing Services (RTS)

Left_Tilted_GSM1900_Mid_Chan_Ambient_Temp_23_1_C_Liquid_Temp_22_8_C

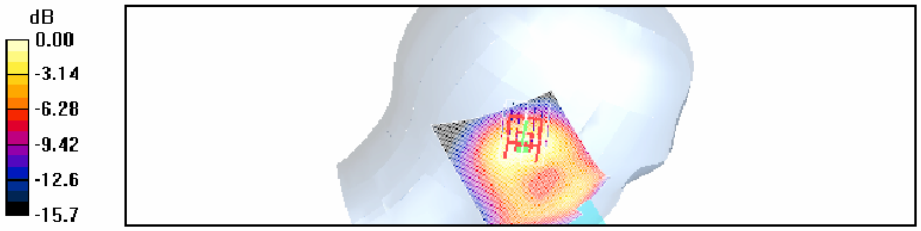
DUT: BlackBerry Wireless Handheld ; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.390 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.5 V/m; Power Drift = -0.021 dB
Peak SAR (extrapolated) = 0.521 W/kg
SAR(1 g) = 0.352 mW/g; SAR(10 g) = 0.209 mW/g
Maximum value of SAR (measured) = 0.391 mW/g



0 dB = 0.391mW/g

Date/Time: 24/08/2005 11:27:02 AMDate/Time: 24/08/2005 11:33:33 AM

Lab: RIM Testing Services (RTS)

Right_Touch_GSM1900_Mid_Chan_Ambient_Temp_24_8_C_Liquid_Temp_23_4_C

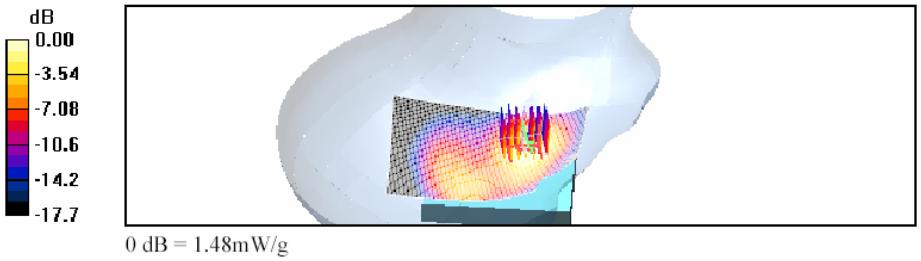
DUT: BlackBerry Wireless Handheld ; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.46 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.7 V/m; Power Drift = 0.056 dB
Peak SAR (extrapolated) = 1.90 W/kg
SAR(1 g) = 1.33 mW/g; SAR(10 g) = 0.778 mW/g
Maximum value of SAR (measured) = 1.48 mW/g



0 dB = 1.48mW/g

Date/Time: 24/08/2005 12:29:14 PMDate/Time: 24/08/2005 12:35:47 PM

Lab: RIM Testing Services (RTS)

Right_Tilted_GSM1900_Mid_Chan_Ambient_Temp_24_9_C_Liquid_Temp_23_5_C

DUT: BlackBerry Wireless Handheld ; Type: Sample

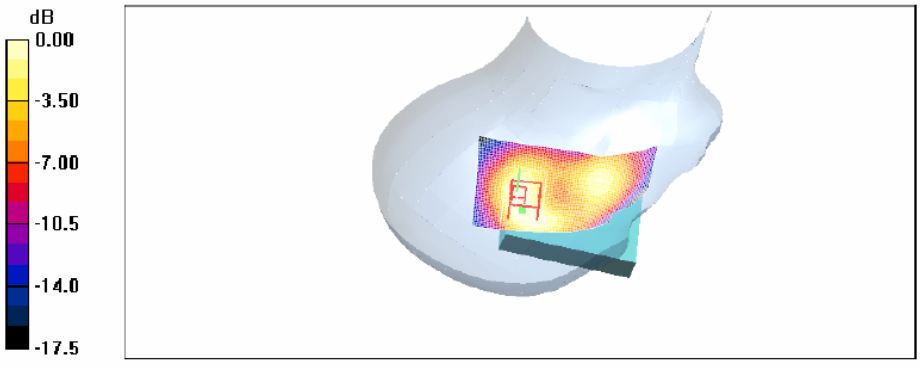
Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.381 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.6 V/m; Power Drift = -0.069 dB
Peak SAR (extrapolated) = 0.457 W/kg
SAR(1 g) = 0.316 mW/g; SAR(10 g) = 0.201 mW/g

Maximum value of SAR (measured) = 0.346 mW/g



0 dB = 0.346mW/g

Date/Time: 24/08/2005 5:15:22 PMDate/Time: 24/08/2005 5:21:53 PM

Lab: RIM Testing Services (RTS)

Right_Touch_GSM1900_Mid_Chan_Ambient_batt
3_Temp_23_2_C_Liquid_Temp_22_6_C

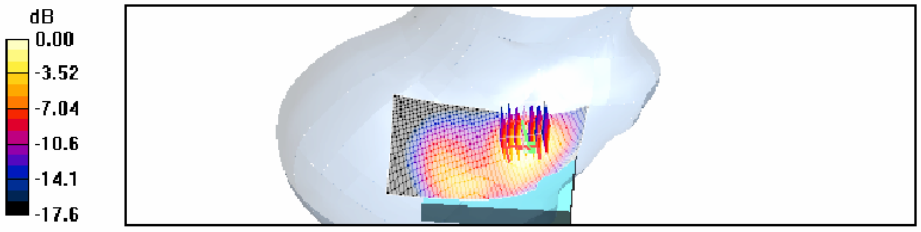
DUT: BlackBerry Wireless Handheld ; Type: Sample

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.42 mho/m; ε_r = 38.2; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(5.29, 5.29, 5.29); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.50 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.4 V/m; Power Drift = -0.018 dB
Peak SAR (extrapolated) = 1.92 W/kg
SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.782 mW/g
Maximum value of SAR (measured) = 1.47 mW/g



0 dB = 1.47mW/g

Date/Time: 29/08/2005 2:17:21 PMDate/Time: 29/08/2005 2:25:35 PM

Lab: RIM Testing Services (RTS)

Left_Touch_GSM850_Mid_Chan_Ambient_Temp_23_4_C_Liquid_Temp_21_9_C

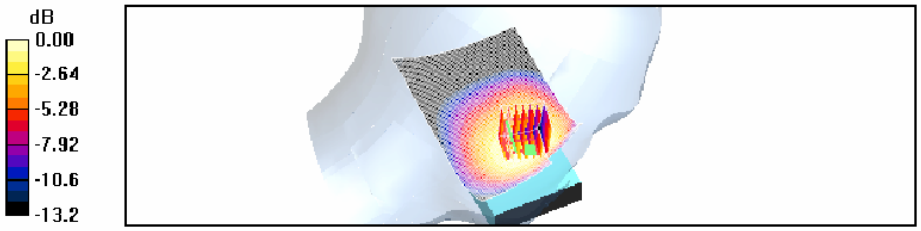
DUT: BlackBerry Wireless Handheld ; Type: Sample

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 = 0.93 mho/m; ε_r = 42.6; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(6.52, 6.52, 6.52); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.650 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.41 V/m; Power Drift = -0.014 dB
Peak SAR (extrapolated) = 0.774 W/kg
SAR(1 g) = 0.603 mW/g; SAR(10 g) = 0.434 mW/g
Maximum value of SAR (measured) = 0.640 mW/g



0 dB = 0.640mW/g

Date/Time: 29/08/2005 2:49:31 PMDate/Time: 29/08/2005 2:57:48 PM

Lab: RIM Testing Services (RTS)

Left_Tilt_GSM850_Mid_Chan_Ambient_Temp_23_5_C_Liquid_Temp_22_1_C

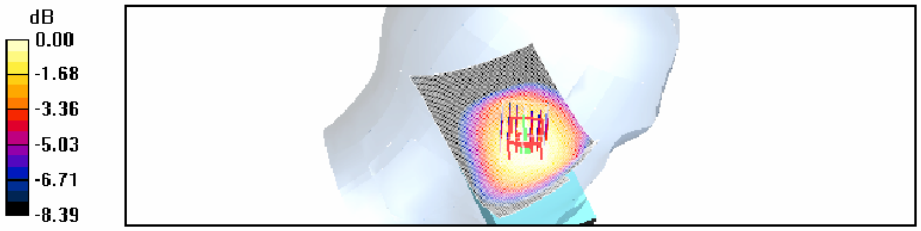
DUT: BlackBerry Wireless Handheld ; Type: Sample

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 = 0.93 mho/m; ε_r = 42.6; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(6.52, 6.52, 6.52); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.381 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.2 V/m; Power Drift = -0.160 dB
Peak SAR (extrapolated) = 0.439 W/kg
SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.274 mW/g
Maximum value of SAR (measured) = 0.373 mW/g



0 dB = 0.373mW/g

Date/Time: 29/08/2005 12:52:43 PMDate/Time: 29/08/2005 12:59:14 PM

Lab: RIM Testing Services (RTS)

Right_Touch_GSM850_Mid_Chan_Ambient_Temp_23_2_C_Liquid_Temp_22_0_C

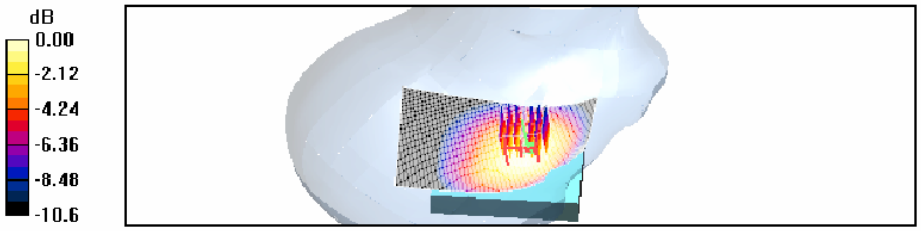
DUT: BlackBerry Wireless Handheld ; Type: Sample

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 = 0.93 mho/m; ε_r = 42.6; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(6.52, 6.52, 6.52); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.698 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.4 V/m; Power Drift = -0.042 dB
Peak SAR (extrapolated) = 0.903 W/kg
SAR(1 g) = 0.661 mW/g; SAR(10 g) = 0.475 mW/g
Maximum value of SAR (measured) = 0.705 mW/g



0 dB = 0.705mW/g

Date/Time: 29/08/2005 1:50:54 PMDate/Time: 29/08/2005 1:57:23 PM

Lab: RIM Testing Services (RTS)

Right_Tilt_GSM850_Mid_Chan_Ambient_Temp_23_3_C_Liquid_Temp_21_8_C

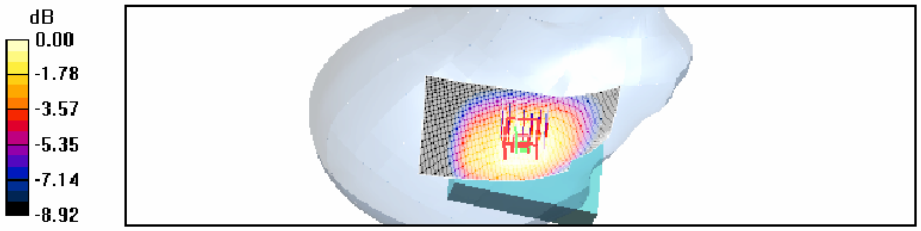
DUT: BlackBerry Wireless Handheld ; Type: Sample

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 = 0.93 mho/m; ε_r = 42.6; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(6.52, 6.52, 6.52); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: SAM 1; Type: SAM 4.0; Serial: 1076
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

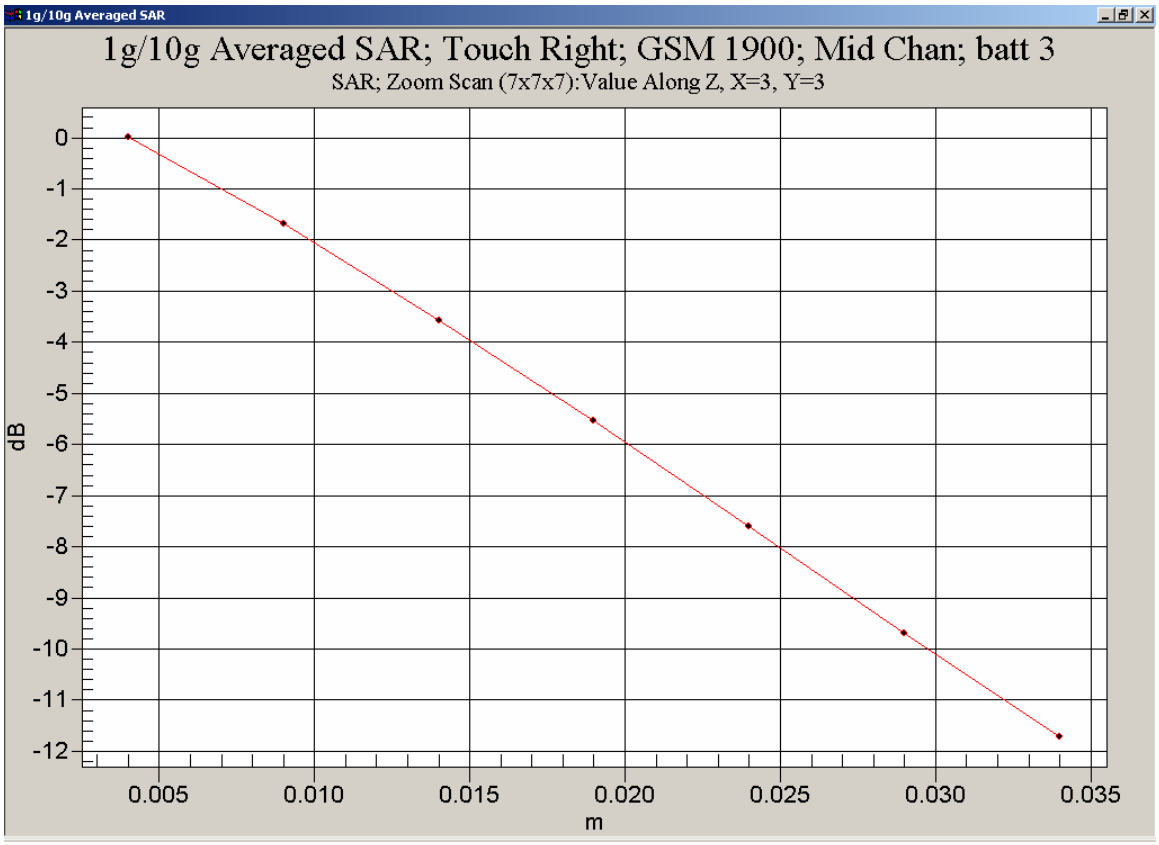
Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.406 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.2 V/m; Power Drift = -0.074 dB
Peak SAR (extrapolated) = 0.481 W/kg
SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.284 mW/g
Maximum value of SAR (measured) = 0.401 mW/g



0 dB = 0.401mW/g

Z-axis plot for worst-case head configuration:



APPENDIX C: SAR DISTRIBUTION PLOTS FOR BODY-WORN CONFIGURATION

Date/Time: 29/10/2005 4:55:35 PM

Test Laboratory: RTS

Body_Worn_PlasticSwivel_Holster_Back_GPRS1900_Mid_Chan

Ambient_Temp_24.7_C_Liquid_Temp_23.5_C

DUT: BlackBerry Wireless Handheld ; Type: Sample

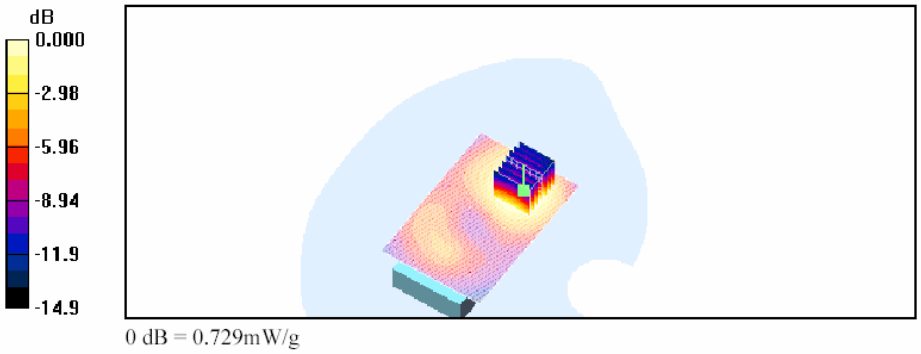
Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.2
Medium parameters used: f = 1880 MHz; σ = 1.59 mho/m; ε_r = 51.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 14/03/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Unnamed procedure/Area Scan (81x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.739 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.90 V/m; Power Drift = -0.020 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.681 mW/g; SAR(10 g) = 0.415 mW/g
Maximum value of SAR (measured) = 0.729 mW/g



0 dB = 0.729mW/g

Date/Time: 29/10/2005 5:24:23 PM

Test Laboratory: RTS

Body_Worn_PlasticSwivel_Holster_Front_GPRS1900_Mid_Chan

Ambient_Temp_24.5_C_Liquid_Temp_23.4_C

DUT: BlackBerry Wireless Handheld ; Type: Sample

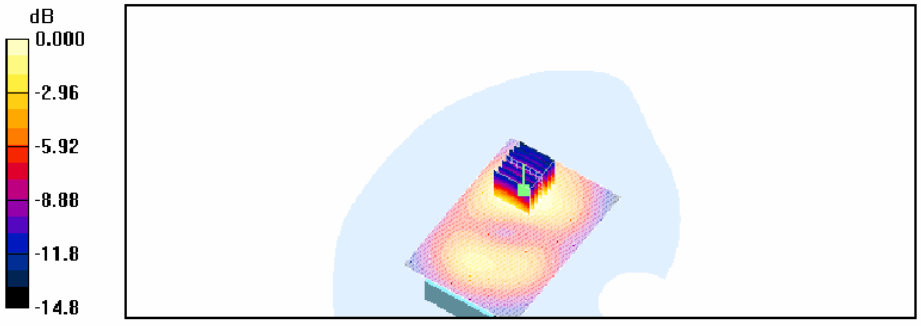
Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.2
Medium parameters used: f = 1880 MHz; σ = 1.59 mho/m; ε_r = 51.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 14/03/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.680 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.42 V/m; Power Drift = -0.056 dB
Peak SAR (extrapolated) = 0.930 W/kg
SAR(1 g) = 0.615 mW/g; SAR(10 g) = 0.379 mW/g
Maximum value of SAR (measured) = 0.665 mW/g



0 dB = 0.665mW/g

Date/Time: 29/10/2005 6:01:00 PM

Test Laboratory: RTS

Body_Worn_LeatherSwivel_Holster_Back_GPRS1900_Mid_Chan

Ambient_Temp_24.1_C_Liquid_Temp_23.2_C

DUT: BlackBerry Wireless Handheld ; Type: Sample

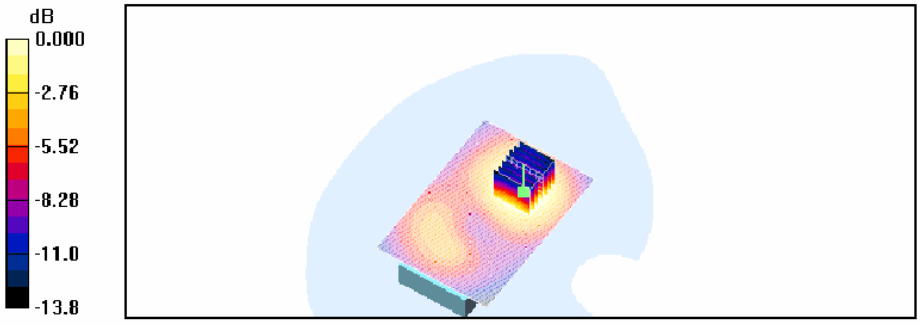
Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.2
Medium parameters used: f = 1880 MHz; σ = 1.59 mho/m; ε_r = 51.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 14/03/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.555 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.1 V/m; Power Drift = -0.037 dB
Peak SAR (extrapolated) = 0.800 W/kg
SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.320 mW/g
Maximum value of SAR (measured) = 0.550 mW/g



0 dB = 0.550mW/g

Date/Time: 29/10/2005 6:32:17 PM

Test Laboratory: RTS

Body_worn_15mm_Distance_GPRS1900_Mid_Chan_Back

Ambient_Temp_23.8_C_Liquid_Temp_22.9_C

DUT: BlackBerry Wireless Handheld ; Type: Sample

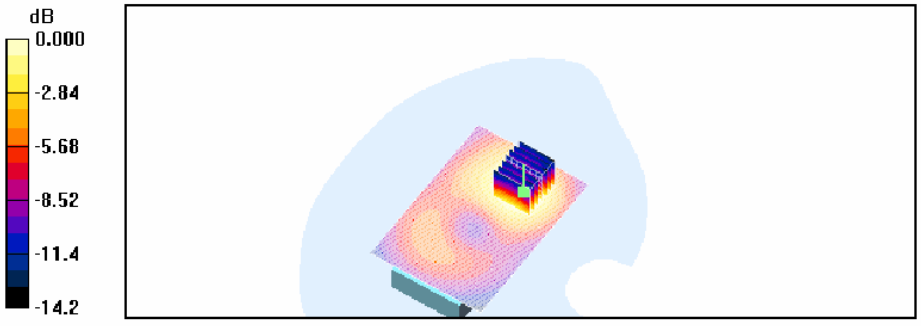
Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.2
Medium parameters used: f = 1880 MHz; σ = 1.59 mho/m; ε_r = 51.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 14/03/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.569 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.81 V/m; Power Drift = 0.096 dB
Peak SAR (extrapolated) = 0.864 W/kg
SAR(1 g) = 0.528 mW/g; SAR(10 g) = 0.325 mW/g
Maximum value of SAR (measured) = 0.565 mW/g



0 dB = 0.565mW/g

Date/Time: 30/10/2005 12:40:57 PM

Test Laboratory: RTS
File Name: Body_Worn_PlasticSwivel_Holster_Back_GPRS1900_BT_ON_Headset

Amb_Temp_23.5_C_Liq_Temp_22.8_C.da4

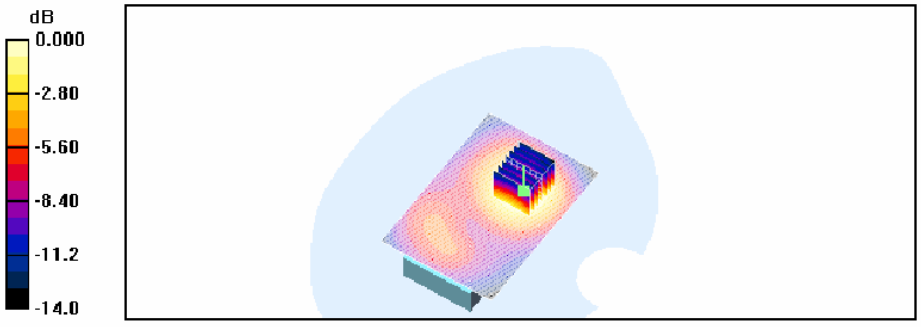
DUT: BlackBerry Wireless Handheld ; Type: Sample
Program Name: Unnamed Program

Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.2
Medium parameters used: f = 1880 MHz; σ = 1.59 mho/m; ε_r = 51.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1642; ConvF(4.78, 4.78, 4.78); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 14/03/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Unnamed procedure/Area Scan (91x131x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.663 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.4 V/m; Power Drift = -0.029 dB
Peak SAR (extrapolated) = 0.979 W/kg
SAR(1 g) = 0.612 mW/g; SAR(10 g) = 0.379 mW/g
Maximum value of SAR (measured) = 0.665 mW/g



0 dB = 0.665mW/g

Date/Time: 28/10/2005 11:04:25 AM

Test Laboratory: RTS

Body_worn_PlasticSwivelHolster_GPRS850_Mid_Chan_Back_

Ambient_Temp_24.6_C_Liquid_Temp_23.2_C

DUT: BlackBerry Wireless Handheld ; Type: Sample

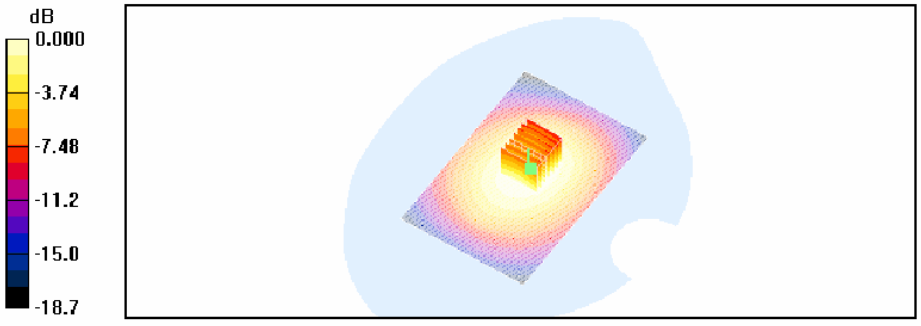
Communication System: GPRS 850; Frequency: 836.8 MHz;Duty Cycle: 1:4.2
Medium parameters used: f = 836.8 MHz; σ = 0.96 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 14/03/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 36.3 V/m; Power Drift = -0.007 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.816 mW/g
Maximum value of SAR (measured) = 1.17 mW/g

Unnamed procedure/Area Scan (101x151x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.18 mW/g



0 dB = 1.18mW/g

Date/Time: 28/10/2005 2:31:59 PM

Test Laboratory: RTS

Body_worn_PlasticSwivelHolster_GPRS850_Mid_Chan_Front

Ambient_Temp_25.2_C_Liquid_Temp_23.0_C

DUT: BlackBerry Wireless Handheld ; Type: Sample

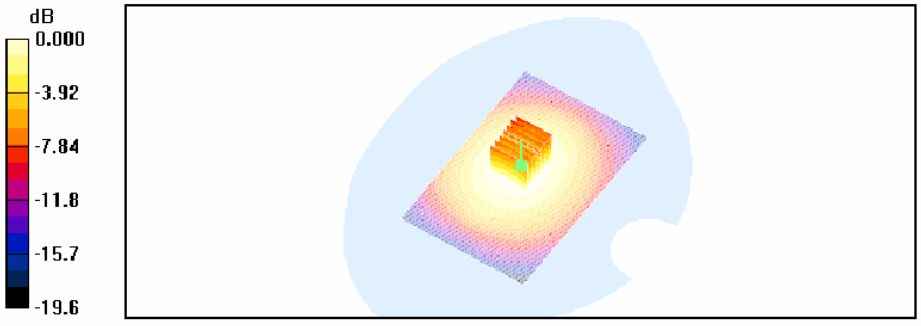
Communication System: GPRS 850; Frequency: 836.8 MHz;Duty Cycle: 1:4.2
Medium parameters used: f = 836.8 MHz; σ = 0.96 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 14/03/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.2 V/m; Power Drift = -0.033 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.970 mW/g; SAR(10 g) = 0.716 mW/g
Maximum value of SAR (measured) = 1.03 mW/g

Unnamed procedure/Area Scan (101x151x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.02 mW/g



0 dB = 1.02mW/g

Date/Time: 28/10/2005 3:41:06 PM

Test Laboratory: RTS

Body_worn_LeatherSwivelHolster_GPRS850_Mid_Chan_Back

Ambient_Temp_24.1_C_Liquid_Temp_22.8_C

DUT: BlackBerry Wireless Handheld ; Type: Sample

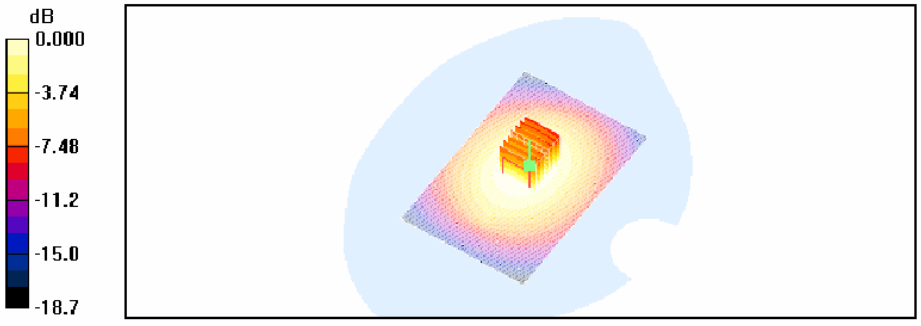
Communication System: GPRS 850; Frequency: 836.8 MHz;Duty Cycle: 1:4.2
Medium parameters used: f = 836.8 MHz; σ = 0.96 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 14/03/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 34.9 V/m; Power Drift = -0.060 dB
Peak SAR (extrapolated) = 1.30 W/kg
SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.761 mW/g
Maximum value of SAR (measured) = 1.08 mW/g

Unnamed procedure/Area Scan (101x151x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.10 mW/g



0 dB = 1.10mW/g

Date/Time: 28/10/2005 4:17:14 PM

Test Laboratory: RTS

Body_worn_15mm_Distance_GPRS850_Mid_Chan_Back_

Ambient_Temp_24.0_C_Liquid_Temp_22.7_C

DUT: BlackBerry Wireless Handheld ; Type: Sample

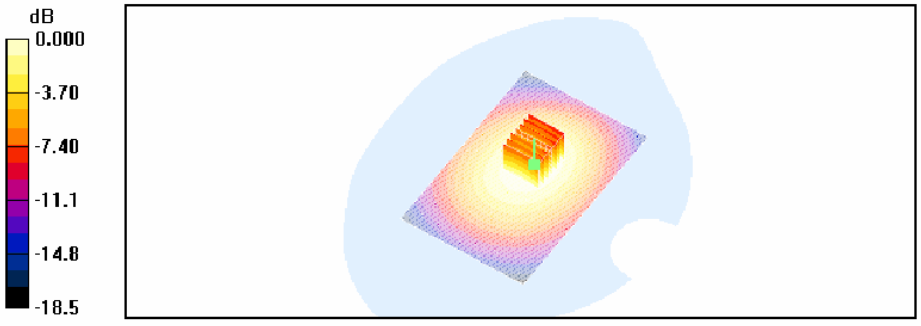
Communication System: GPRS 850; Frequency: 836.8 MHz;Duty Cycle: 1:4.2
Medium parameters used: f = 836.8 MHz; σ = 0.96 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 14/03/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 31.8 V/m; Power Drift = -0.029 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.900 mW/g; SAR(10 g) = 0.664 mW/g
Maximum value of SAR (measured) = 0.957 mW/g

Unnamed procedure/Area Scan (101x151x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.966 mW/g



0 dB = 0.966mW/g

Date/Time: 28/10/2005 4:46:13 PM

Test Laboratory: RTS

Body_worn_PlasticSwivelHolster_GPRS850_BT_ON_Heaset_Mid_Chan_Back

Ambient_Temp_24.1_C_Liquid_Temp_22.9_C

DUT: BlackBerry Wireless Handheld ; Type: Sample

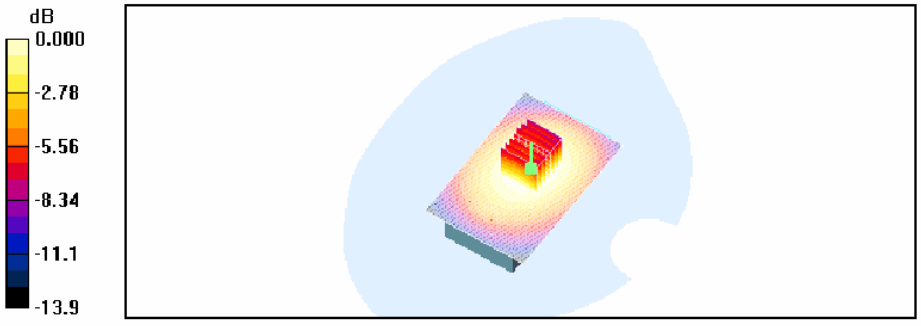
Communication System: GPRS 850; Frequency: 836.8 MHz;Duty Cycle: 1:4.2
Medium parameters used: f = 836.8 MHz; σ = 0.96 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1642; ConvF(6.18, 6.18, 6.18); Calibrated: 07/01/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn473; Calibrated: 14/03/2005
- Phantom: SAM 2; Type: SAM 4.0; Serial: 1080
- Measurement SW: DASY4, V4.6 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 159

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 36.5 V/m; Power Drift = -0.089 dB
Peak SAR (extrapolated) = 1.47 W/kg
SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.841 mW/g
Maximum value of SAR (measured) = 1.22 mW/g

Unnamed procedure/Area Scan (81x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.20 mW/g



0 dB = 1.20mW/g

Z-axis plot for worst-case body worn configuration: