

APPENDIX 3 : SAR Measurement data

1. Evaluation procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the E-field at a fixed location above the ear point or central position of flat phantom was used as a reference value for assessing the power drop.

Step 2: The SAR distribution at the exposed side of head or body position was measured at a distance of each device from the inner surface of the shell. The area covered the entire dimension of the antenna of EUT and the horizontal grid spacing was 20 mm x 20 mm . Based on these data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Around this point found in the Step 2 (area scan) , a volume of 30mm x 30mm x 30mm was assessed by measuring 7 x 7 x 7 points. And for any secondary peaks found in the Step2 which are within 2dB of maximum peak and not with this Step3 (Zoom scan) is repeated. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

(1). The data at the surface were extrapolated, since the center of the dipoles is 1mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm [4]. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.

(2). The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one-dimensional splines with the "Not a knot"-condition (in x, y and z-directions) [4], [5]. The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.

(3). All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the E-field at the same location as in Step 1.

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2. Measurement data (ANT. : UBA-CUW1000)

PSP-1001 (ANT. : UBA-CUW1000, Battery : PSP100(Sony)) Body / Front / 2437 MHz / 11b(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.130 mW/g

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

Reference Value = 6.75 V/m; Power Drift = -0.180 dB

Peak SAR (extrapolated) = 0.150 W/kg

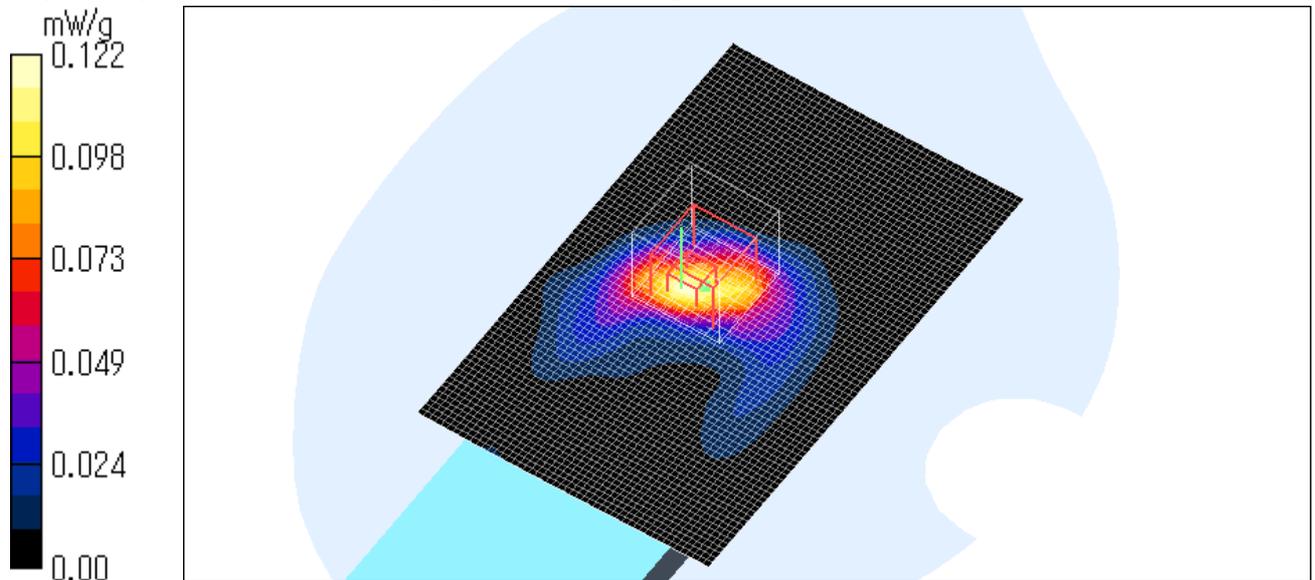
SAR(1 g) = 0.087 mW/g; SAR(10 g) = 0.045 mW/g

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

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.5 degree C. , After 24.5 degree C.



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PSP-1001(ANT. : UBA-CUW1000, Battery : PSP100(Sony))
Body / Back / 2437 MHz / 11b(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: $dx=20$ mm, $dy=20$ mm

Maximum value of SAR (interpolated) = 0.074 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.69 V/m; Power Drift = 0.099 dB

Peak SAR (extrapolated) = 0.093 W/kg

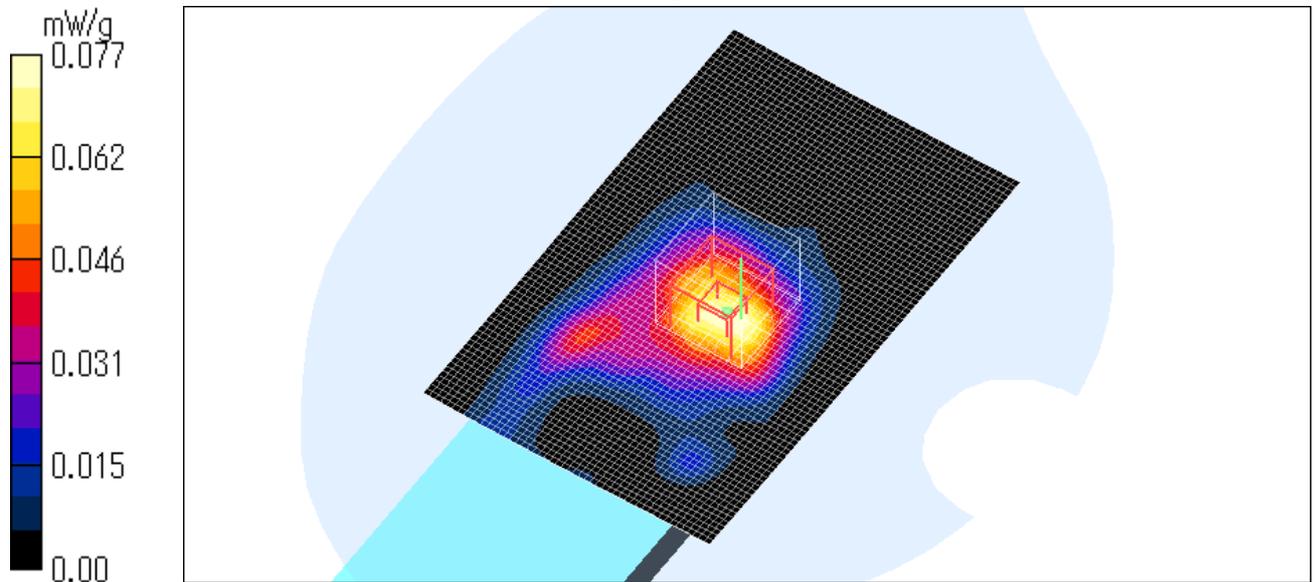
SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.034 mW/g

Maximum value of SAR (measured) = 0.077 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.5 degree C. , After 24.4 degree C.



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PSP-1001 (ANT. : UBA-CUW1000, Battery : PSP100(Sony))
Body / Top / 2437 MHz / 11b(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: $dx=20$ mm, $dy=20$ mm

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

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 5.14 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.095 W/kg

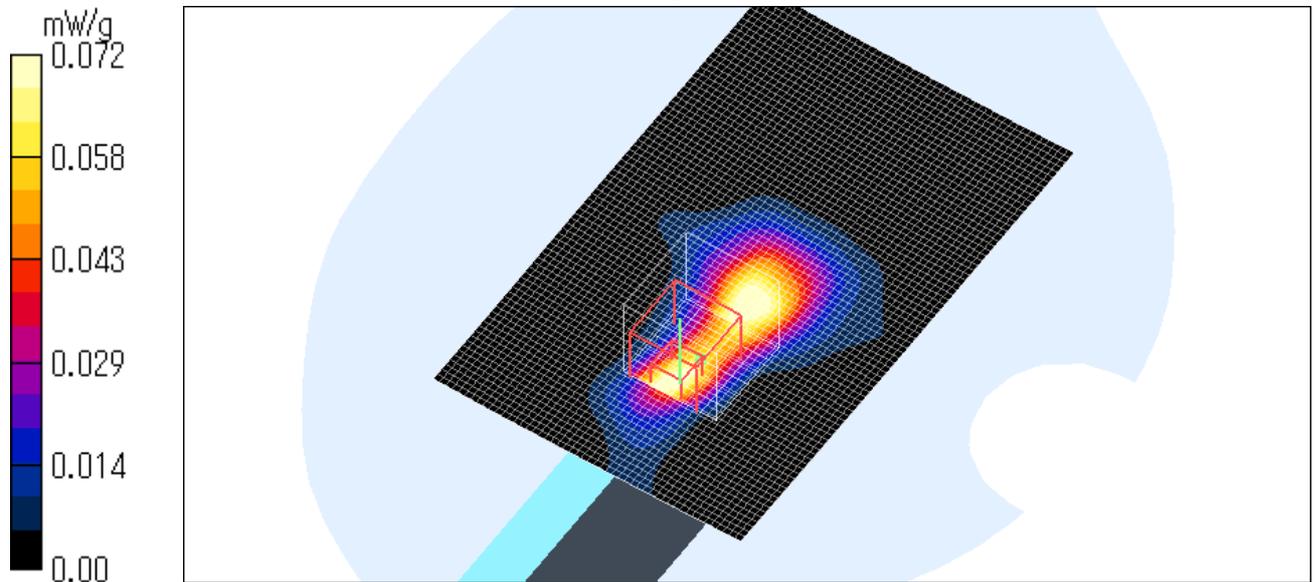
SAR(1 g) = 0.051 mW/g; SAR(10 g) = 0.024 mW/g

Maximum value of SAR (measured) = 0.072 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.4 degree C. , After 24.4 degree C.



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PSP-1001 (ANT. : UBA-CUW1000, Battery : PSP100(Sony))
Body / Bottom / 2437 MHz / 11b(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.055 mW/g

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

Reference Value = 1.73 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.046 W/kg

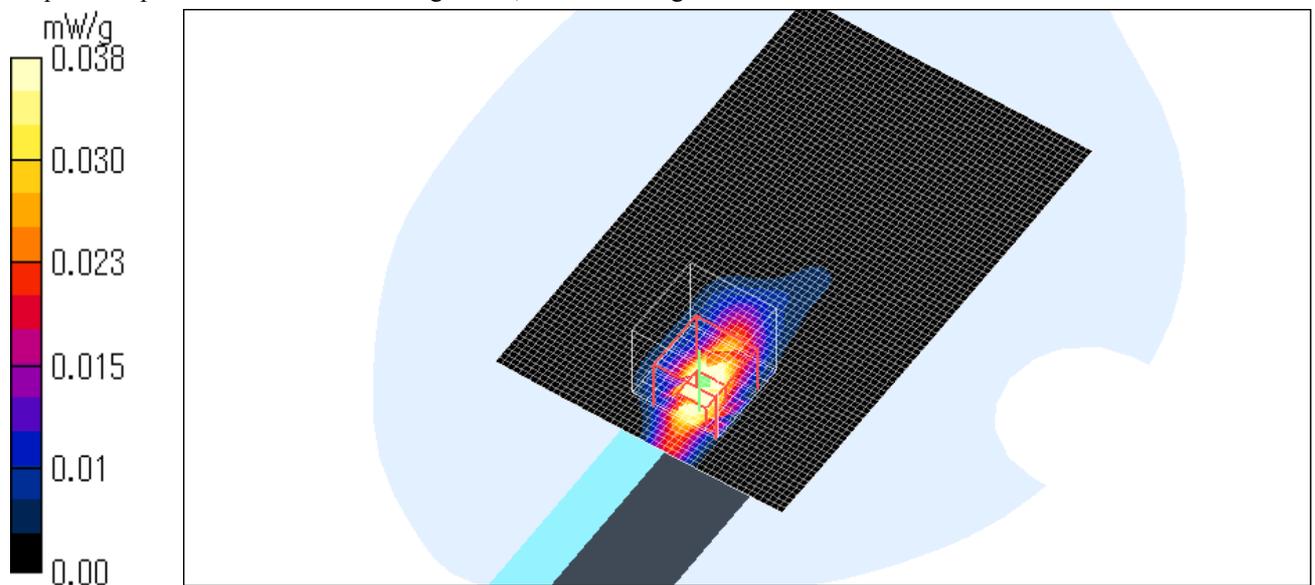
SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.012 mW/g

Maximum value of SAR (measured) = 0.038 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.4 degree C. , After 24.4 degree C.



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**PSP-1001 (ANT. : UBA-CUW1000, Battery : PSP100(Sony))
Body / Left Side / 2437 MHz / 11b(11Mbps)**

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.118 mW/g

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

Reference Value = 5.74 V/m; Power Drift = -0.151 dB

Peak SAR (extrapolated) = 0.186 W/kg

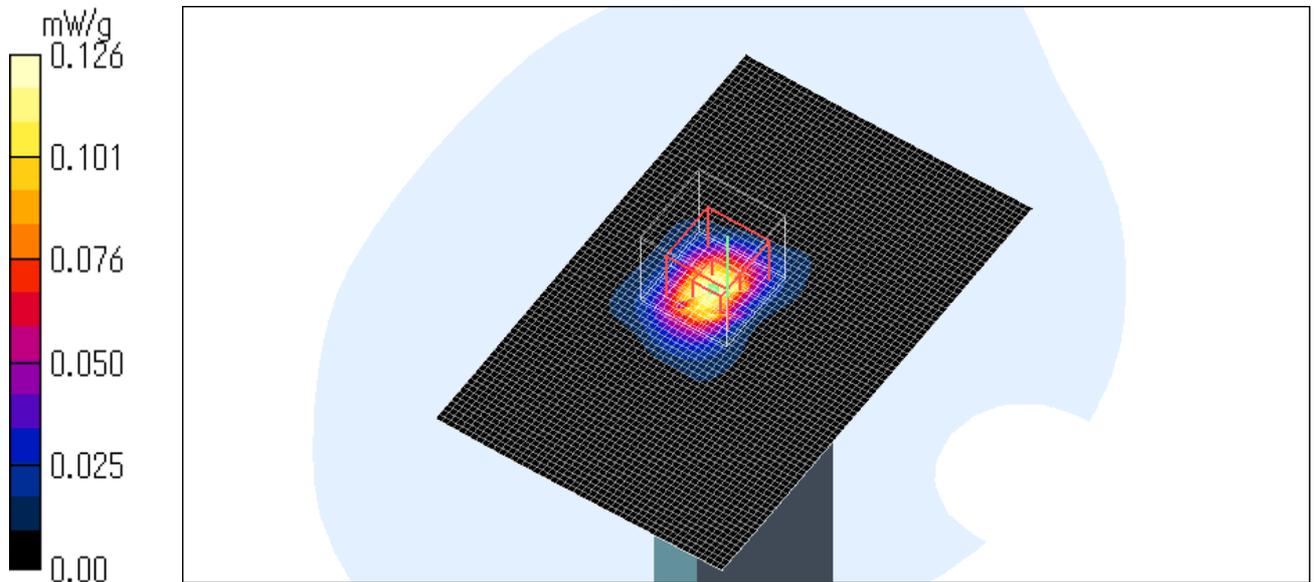
SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.038 mW/g

Maximum value of SAR (measured) = 0.126 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.5 degree C. , After 24.5 degree C.



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**PSP-1001 (ANT. : UBA-CUW1000, Battery : PSP100(Matsushita))
Body / Left Side / 2437 MHz / 11b(11Mbps)**

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.137 mW/g

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

Reference Value = 4.95 V/m; Power Drift = -0.196 dB

Peak SAR (extrapolated) = 0.156 W/kg

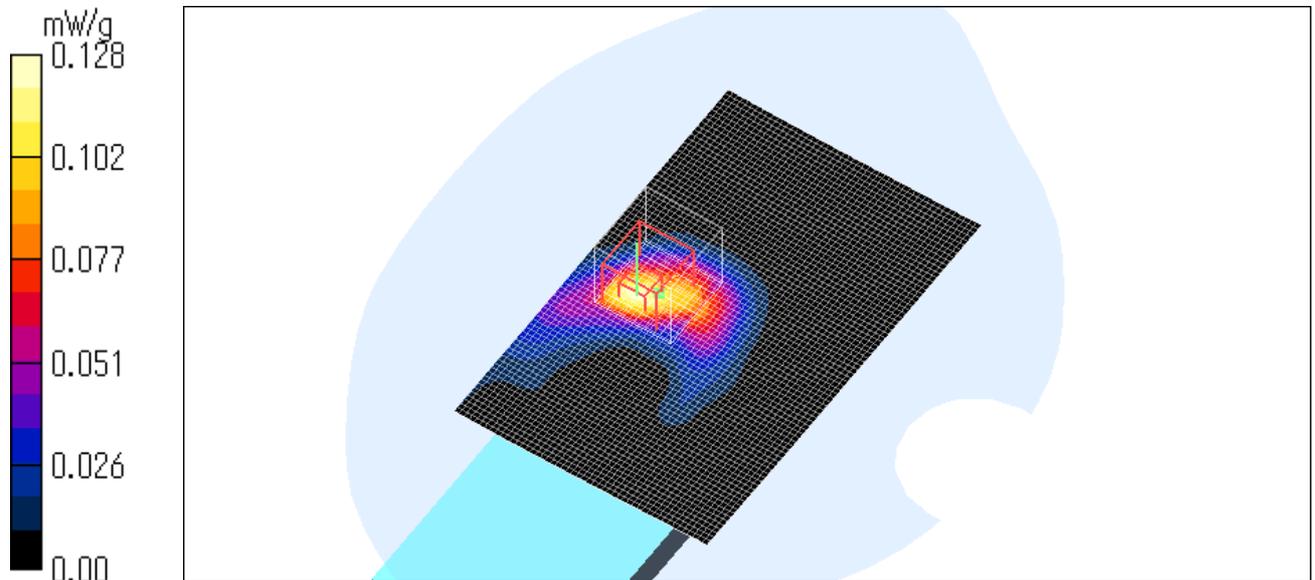
SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.128 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.4 degree C. , After 24.3 degree C.



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**PSP-1001 (ANT. : UBA-CUW1000, Battery : PSP280)
Body / Left Side / 2437 MHz / 11b(11Mbps)**

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.116 mW/g

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

Reference Value = 6.78 V/m; Power Drift = -0.107 dB

Peak SAR (extrapolated) = 0.155 W/kg

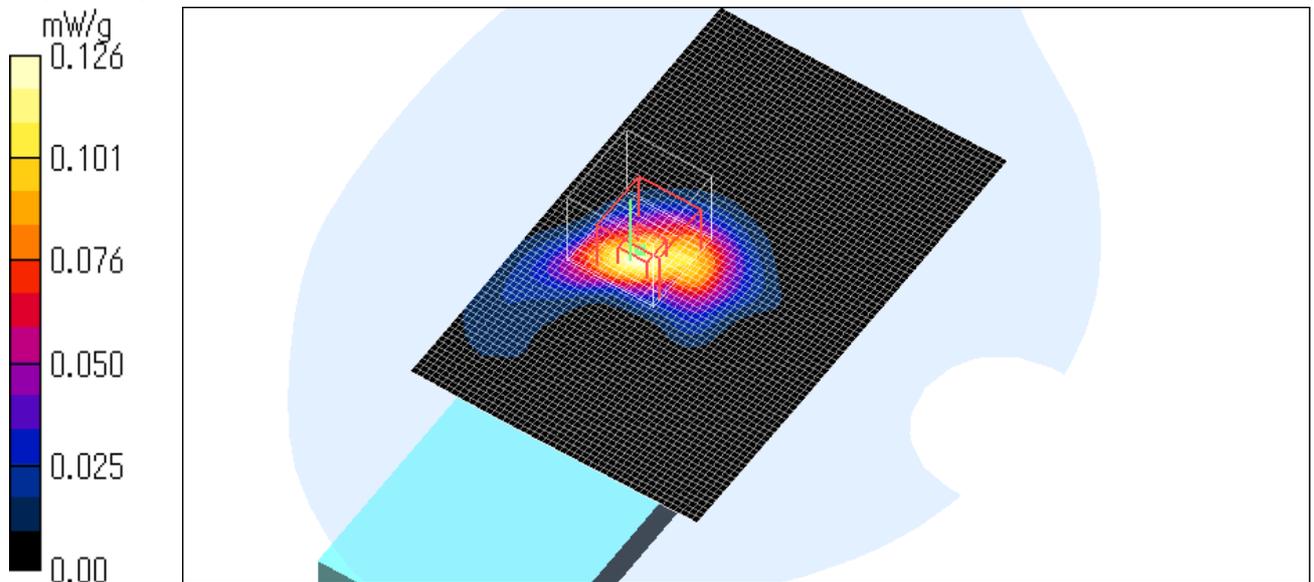
SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.046 mW/g

Maximum value of SAR (measured) = 0.126 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.5 degree C. , After 24.5 degree C.



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PSP-1001 (ANT. : UBA-CUW1000, Battery : PSP100(Matsushita))
Body / Front / 2412 MHz / 11b(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.115 mW/g

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

Reference Value = 6.94 V/m; Power Drift = -0.186 dB

Peak SAR (extrapolated) = 0.154 W/kg

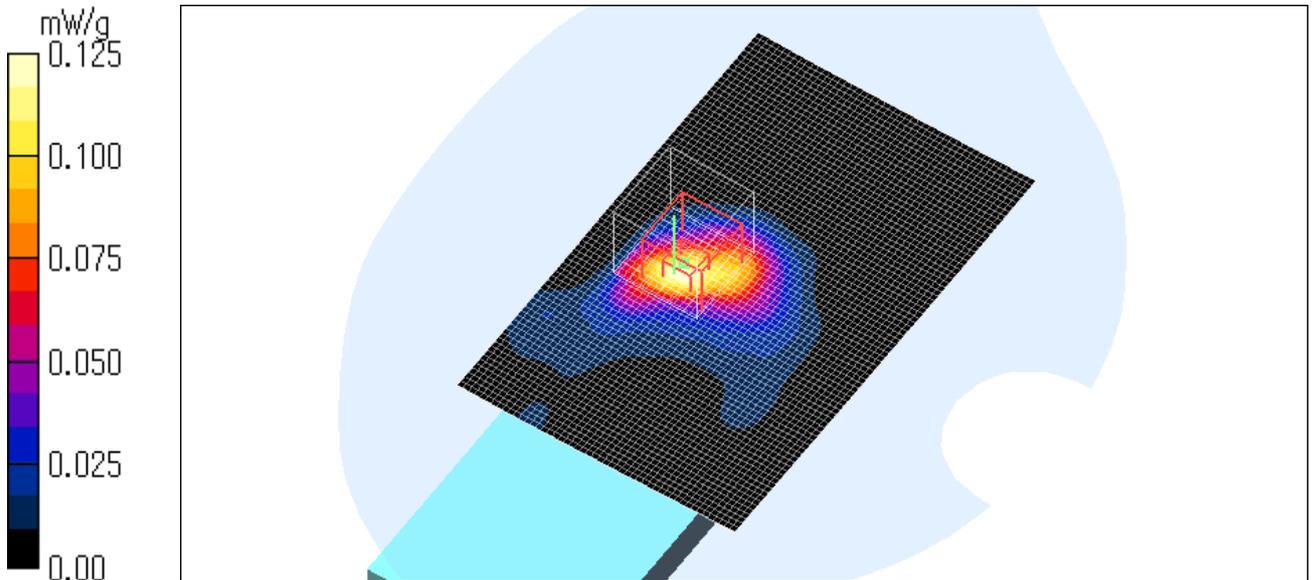
SAR(1 g) = 0.090 mW/g; SAR(10 g) = 0.046 mW/g

Maximum value of SAR (measured) = 0.125 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.5 degree C. , After 24.5 degree C.



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PSP-1001 (ANT. : UBA-CUW1000, Battery : PSP100(Matsushita))
Body / Front / 2462 MHz / 11b(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.129 mW/g

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

Reference Value = 7.59 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 0.171 W/kg

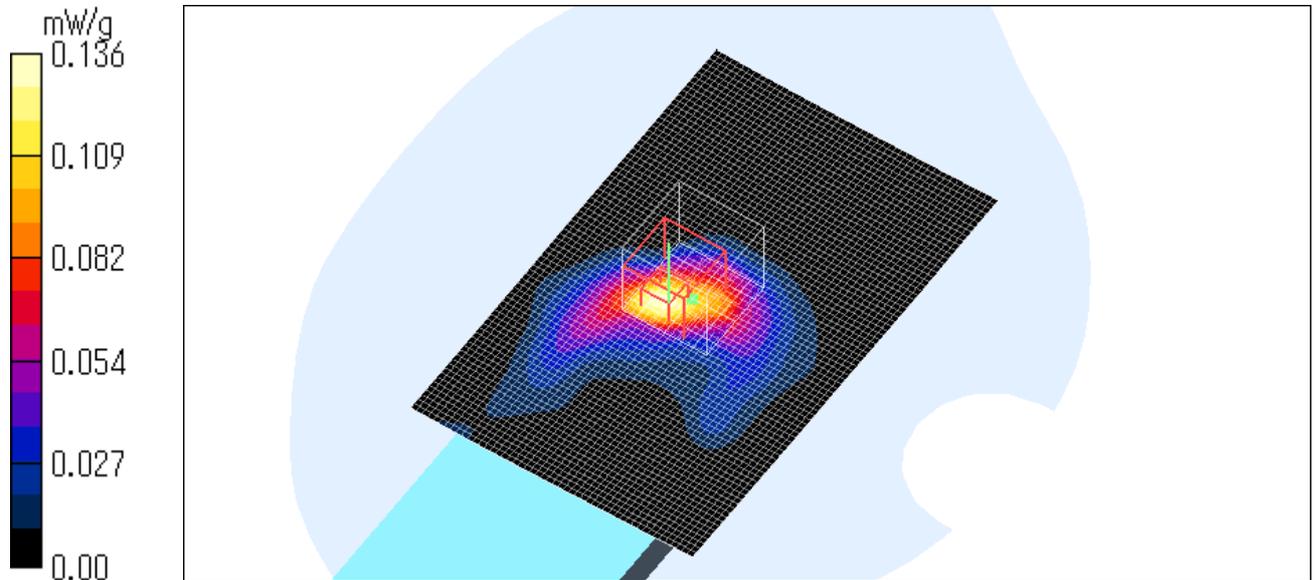
SAR(1 g) = 0.098 mW/g; SAR(10 g) = 0.049 mW/g

Maximum value of SAR (measured) = 0.136 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.5 degree C. , After 24.5 degree C.



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3. Measurement data (ANT. : HFS11-S001)

PSP-1001 (ANT. : HFS11-S001, Battery : PSP100(Matsuhita))
Body / Front / 2437 MHz / 11b(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.155 mW/g

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

Reference Value = 4.69 V/m; Power Drift = -0.140 dB

Peak SAR (extrapolated) = 0.166 W/kg

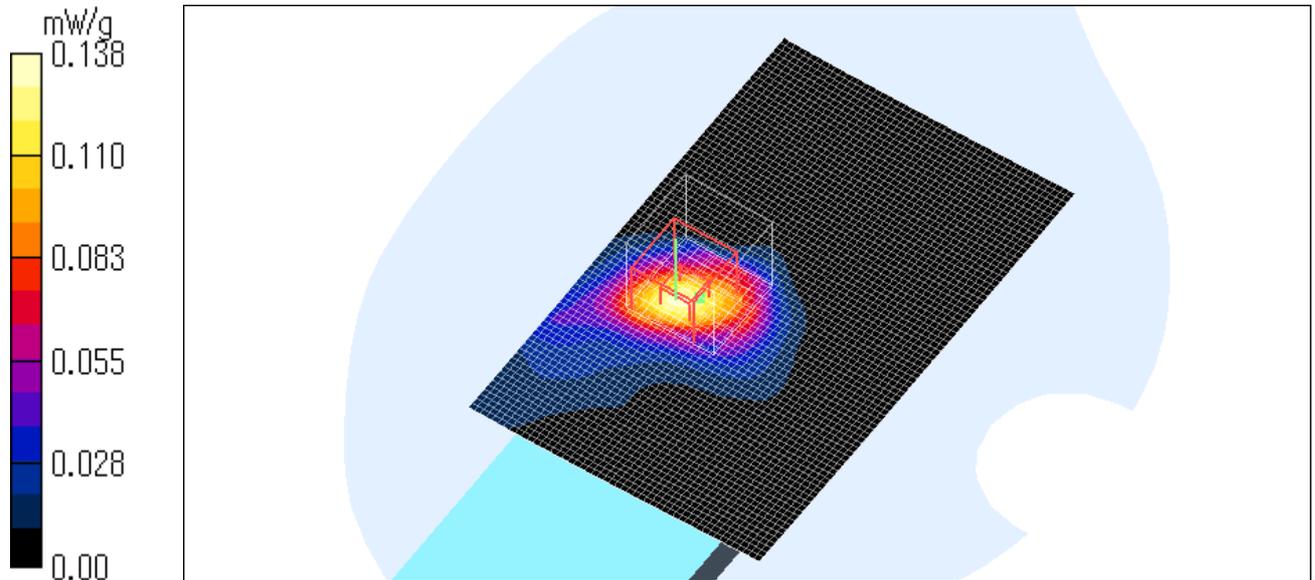
SAR(1 g) = 0.100 mW/g; SAR(10 g) = 0.051 mW/g

Maximum value of SAR (measured) = 0.138 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.0 degree C. , After 24.0 degree C.



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PSP-1001 (ANT. : HFS11-S001, Battery : PSP100(Matsuhita))
Body / Back / 2437 MHz / 11b(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.053 mW/g

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

Reference Value = 4.78 V/m; Power Drift = 0.162 dB

Peak SAR (extrapolated) = 0.060 W/kg

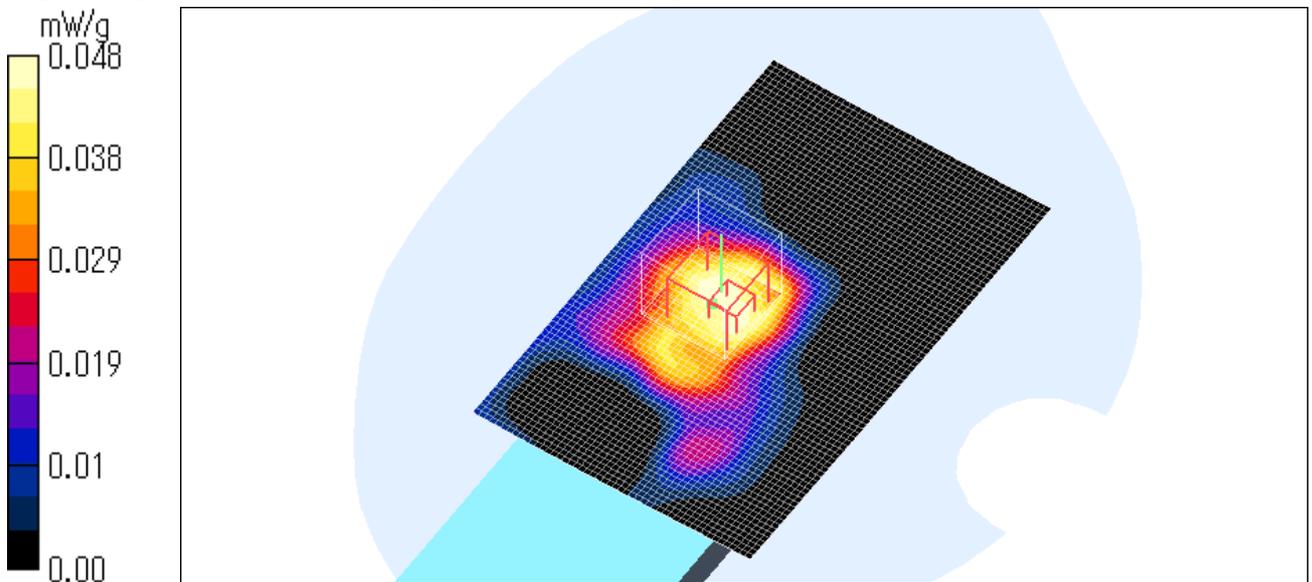
SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.048 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.0 degree C. , After 24.0 degree C.



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**PSP-1001 (ANT. : HFS11-S001, Battery : PSP100(Matsuhita))
Body / Top / 2437 MHz / 11b(11Mbps)**

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

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

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

Reference Value = 4.82 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 0.121 W/kg

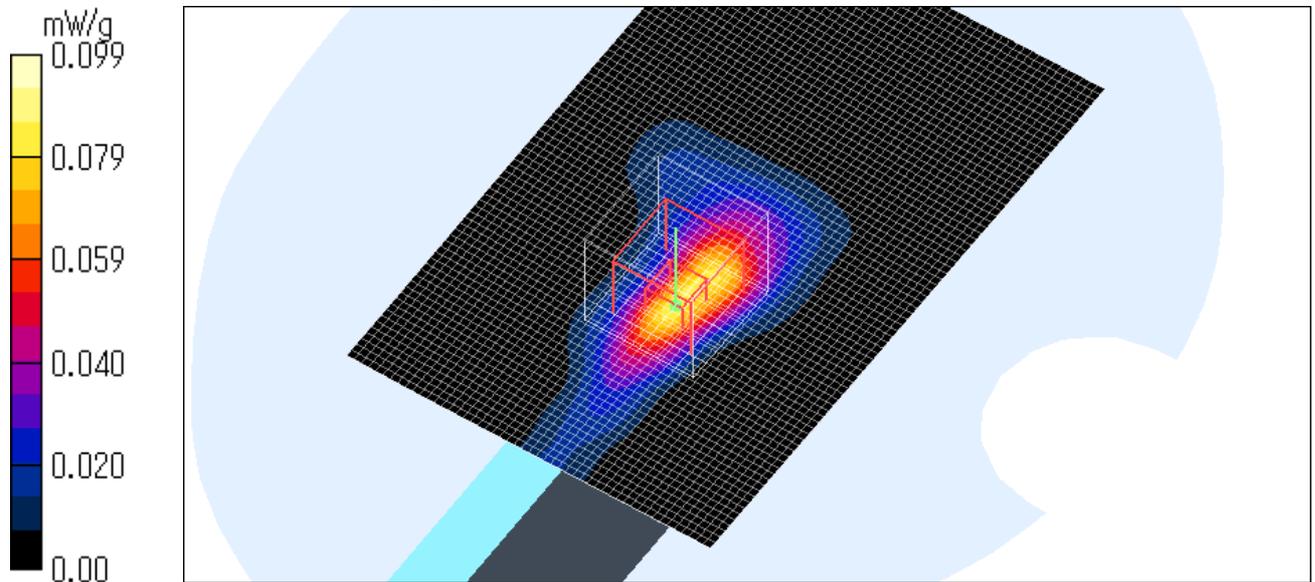
SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.032 mW/g

Maximum value of SAR (measured) = 0.099 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.0 degree C. , After 24.0 degree C.



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**PSP-1001 (ANT. : HFS11-S001, Battery : PSP100(Matsuhita))
Body / Bottom / 2437 MHz / 11b(11Mbps)**

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.037 mW/g

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

Reference Value = 1.61 V/m; Power Drift = -0.288 dB

Peak SAR (extrapolated) = 0.032 W/kg

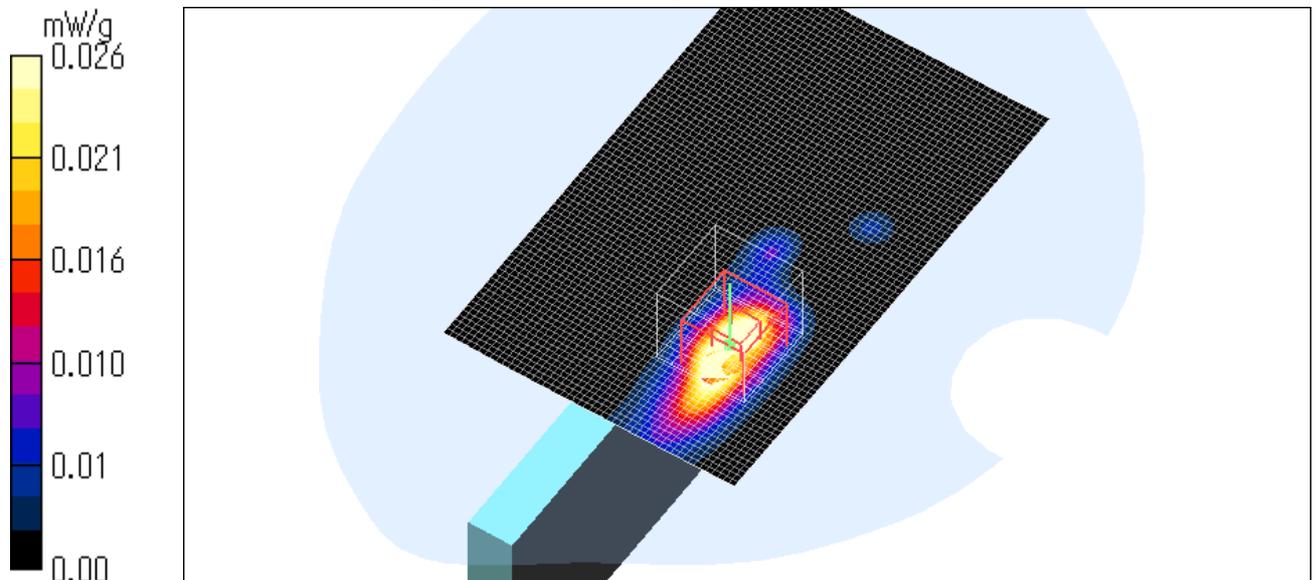
SAR(1 g) = 0.018 mW/g; SAR(10 g) = 0.00874 mW/g

Maximum value of SAR (measured) = 0.026 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 24.0 degree C. , After 24.0 degree C.



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**PSP-1001 (ANT. : HFS11-S001, Battery : PSP100(Matsuhita))
Body / Front / 2412 MHz / 11b(11Mbps)**

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.144 mW/g

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

Reference Value = 7.78 V/m; Power Drift = -0.191 dB

Peak SAR (extrapolated) = 0.192 W/kg

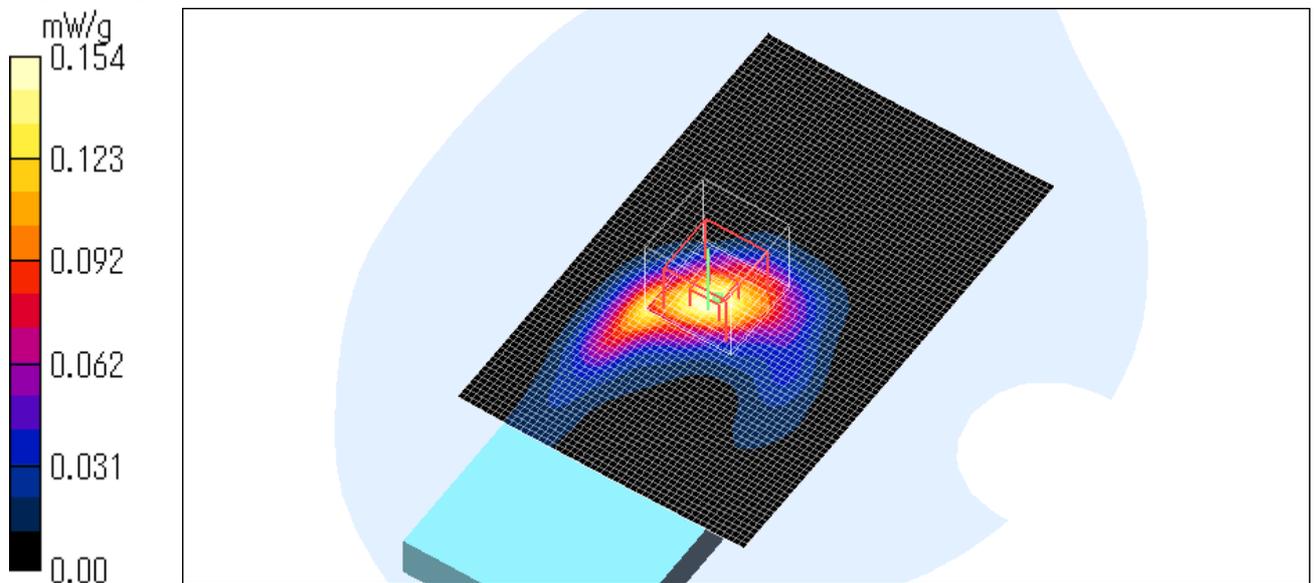
SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.058 mW/g

Maximum value of SAR (measured) = 0.154 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 23.9 degree C. , After 23.9 degree C.



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Z-axis scan at max SAR location

PSP-1001 (ANT. : UBA-CUW1000, Battery : PSP100(Matsushita)) / Body / Front / 2462 MHz / 11b(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

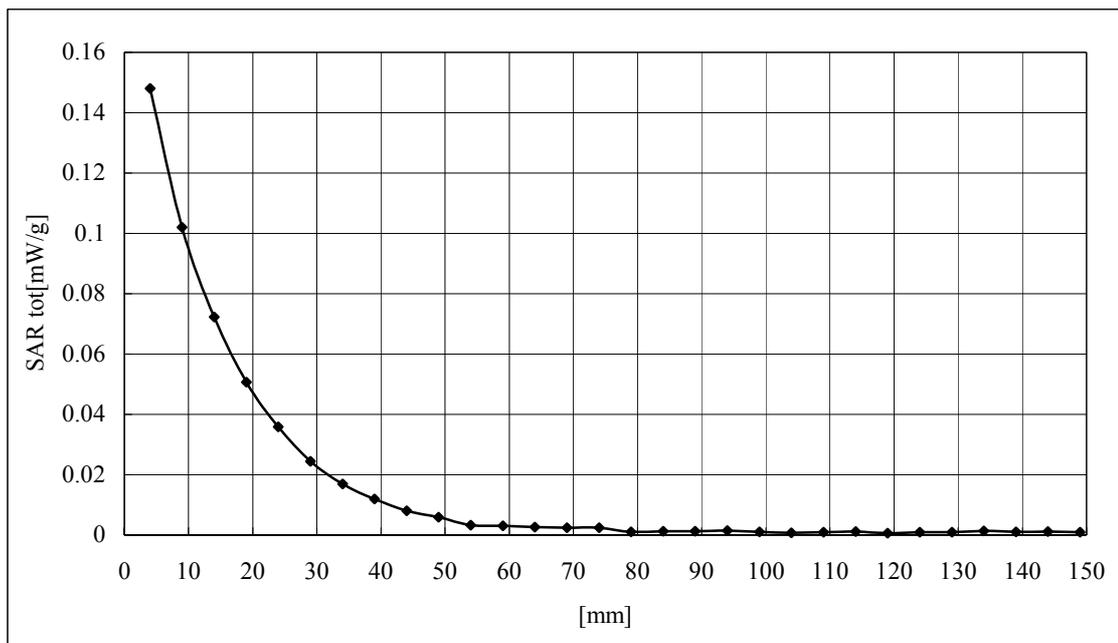
Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145



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PSP-1001 (ANT. : HFS11-S001, Battery : PSP100(Matsuhita))
Body / Front / 2462 MHz / 11b(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.145 mW/g

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

Reference Value = 8.15 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.184 W/kg

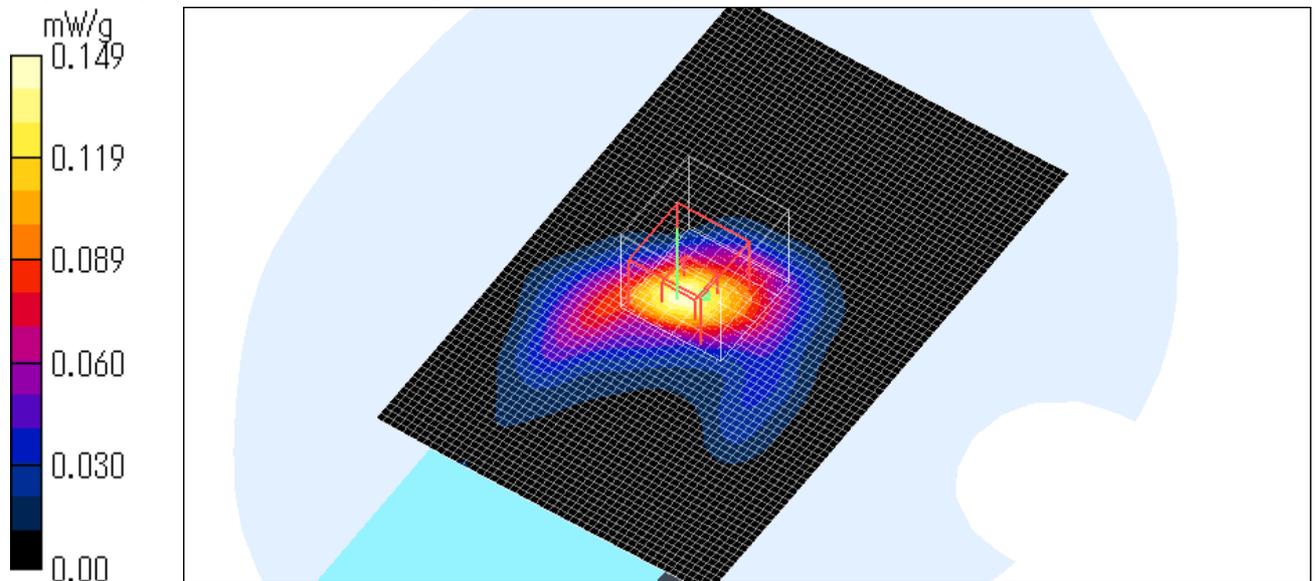
SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.054 mW/g

Maximum value of SAR (measured) = 0.149 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 23.9 degree C. , After 23.9 degree C.



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PSP-1001 (ANT. : HFS11-S001, Battery : PSP100(Matsushita))
Body / Front 5mm / 2412 MHz / 11b(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.069 mW/g

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

Reference Value = 4.76 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 0.075 W/kg

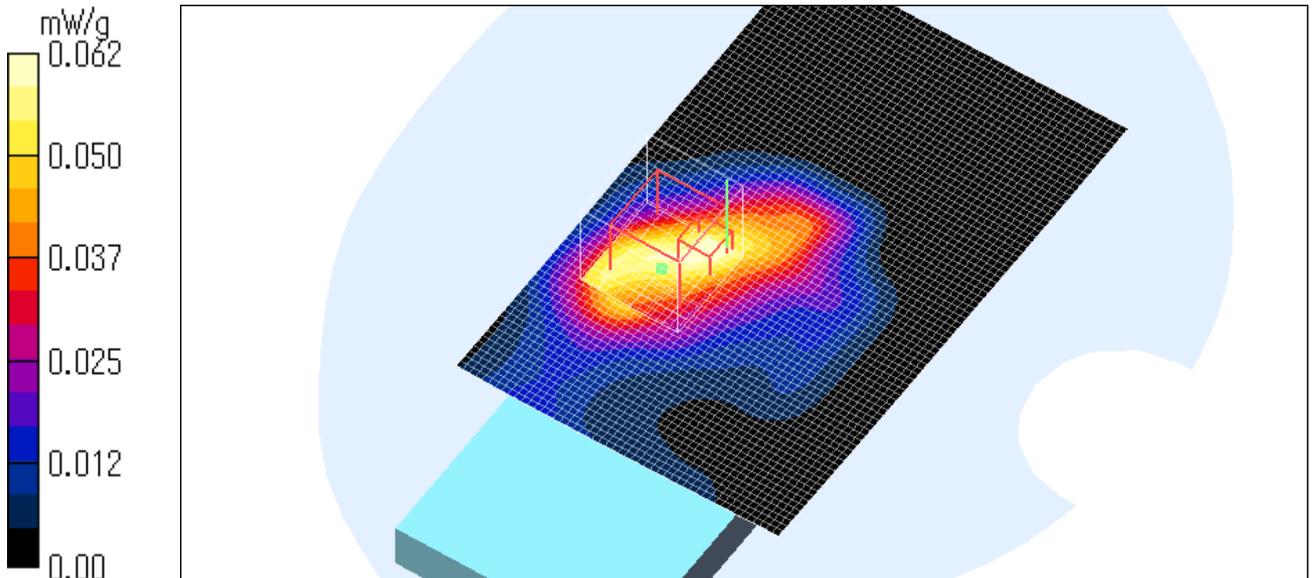
SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.026 mW/g

Maximum value of SAR (measured) = 0.062 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 23.9 degree C. , After 23.9 degree C.



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**PSP-1001 (ANT. : HFS11-S001, Battery : PSP100(Matsushita))
Body / Front 10mm / 2412 MHz / 11b(11Mbps)**

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.030 mW/g

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

Reference Value = 3.02 V/m; Power Drift = -0.031 dB

Peak SAR (extrapolated) = 0.031 W/kg

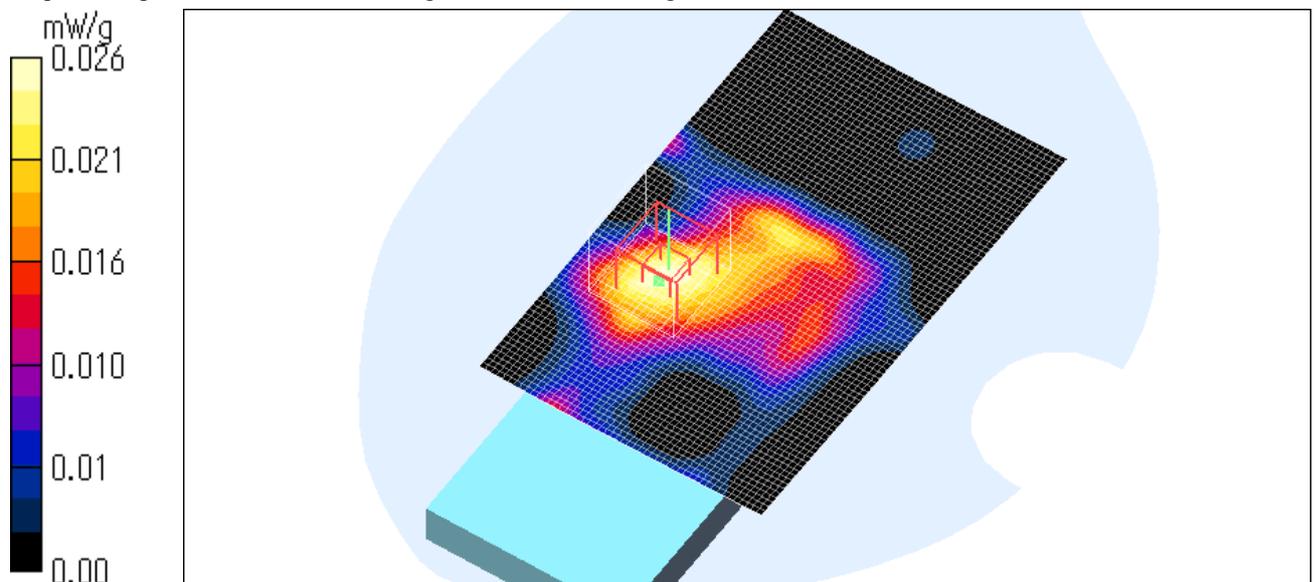
SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.011 mW/g

Maximum value of SAR (measured) = 0.026 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 23.9 degree C. , After 23.9 degree C.



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PSP-1001 (ANT. : HFS11-S001, Battery : PSP100(Matsushita))
Body / Front 15mm / 2412 MHz / 11b(11Mbps)

Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(7.72, 7.72, 7.72); Calibrated: 2005/04/12

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2005/05/26

Phantom: SAM 1196

Measurement SW: DASYS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

Area Scan (51x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.030 mW/g

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

Reference Value = 2.30 V/m; Power Drift = -0.271 dB

Peak SAR (extrapolated) = 0.027 W/kg

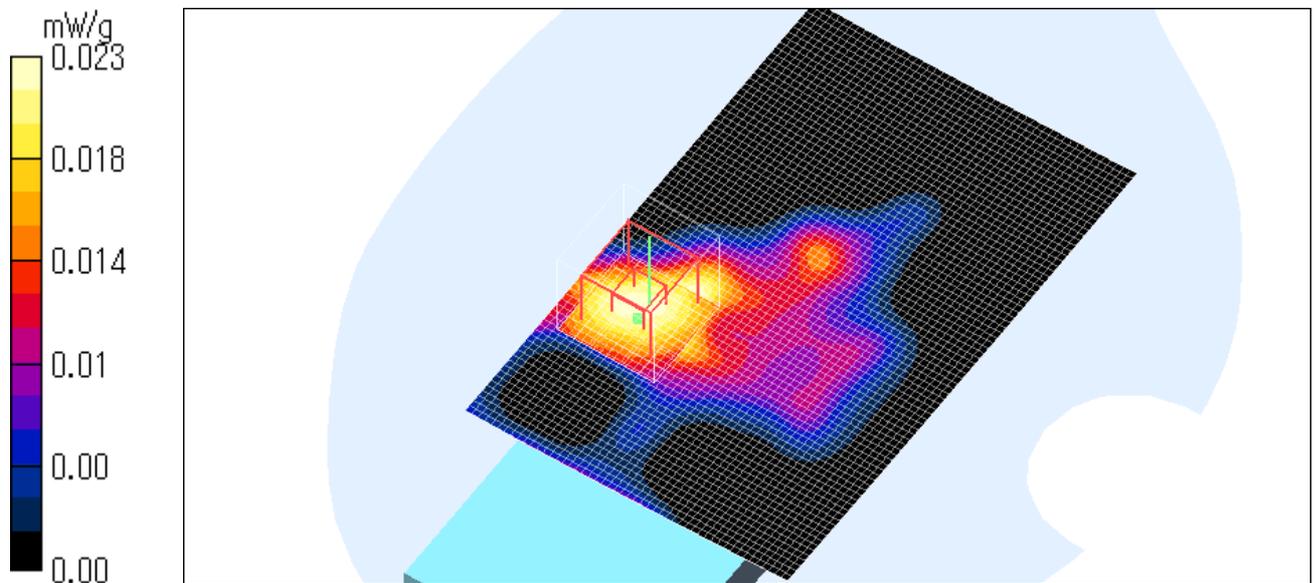
SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.010 mW/g

Maximum value of SAR (measured) = 0.023 mW/g

Test Date = 10/27/05

Ambient Temperature = 24.8degree C.

Liquid Temperature = Before 23.9 degree C. , After 23.9 degree C.



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