

Test report No. : 27JE0092-HO-D-R1  
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**APPENDIX 2 : SAR Measurement data**

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## 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 15 mm x 15 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 (level more than ambient noise ( $\geq 0.012$  W/kg)) 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 (SAR 2450MHz)

### PSP-2001/ Body / Front / 2437MHz / 11b(11Mbps)

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (91x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.256 mW/g

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

Reference Value = 3.59 V/m; Power Drift = 0.208 dB

Peak SAR (extrapolated) = 0.330 W/kg

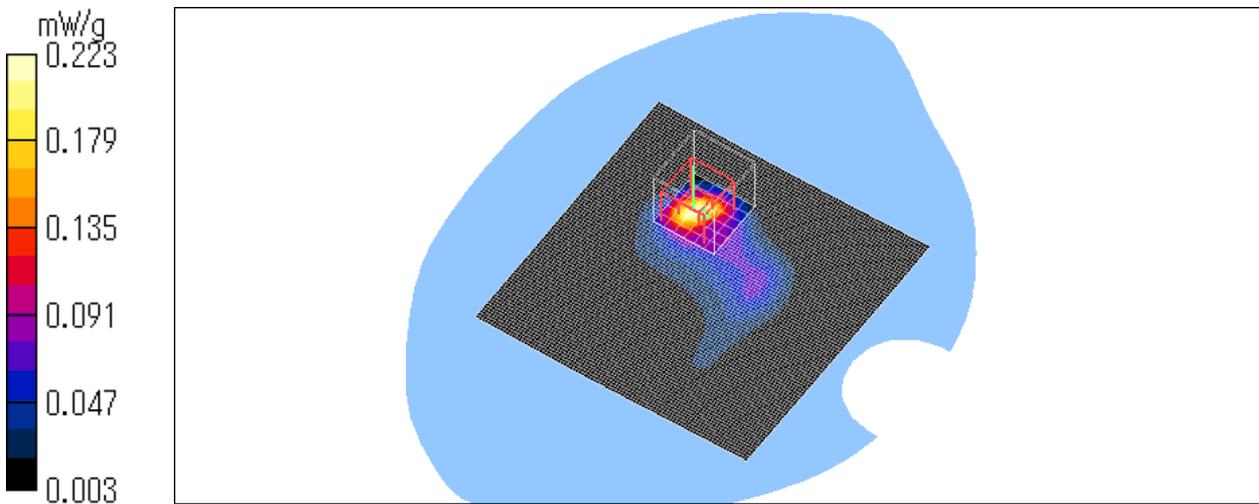
**SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.060 mW/g**

Maximum value of SAR (measured) = 0.223 mW/g

Test Date = 05/25/07

Ambient Temperature = 25.0 degree.c

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



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**Z-axis scan at max SAR location**

**PSP-2001/ Body / Front / 2437MHz / 11b(11Mbps)**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

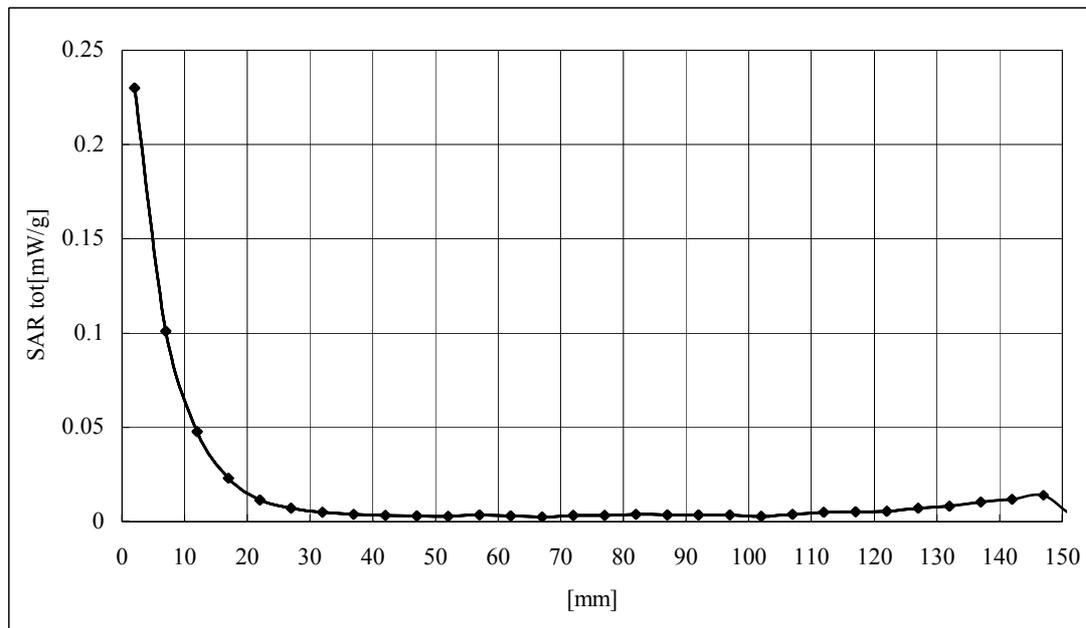
DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160



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**PSP-2001/ Body / Rear / 2437MHz / 11b(11Mbps)**

Crest factor: 1  
Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
DASY4 Configuration:  
- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19  
- Sensor-Surface: 2mm (Mechanical Surface Detection)  
- Phantom: SAM 1196  
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (91x91x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 0.121 mW/g

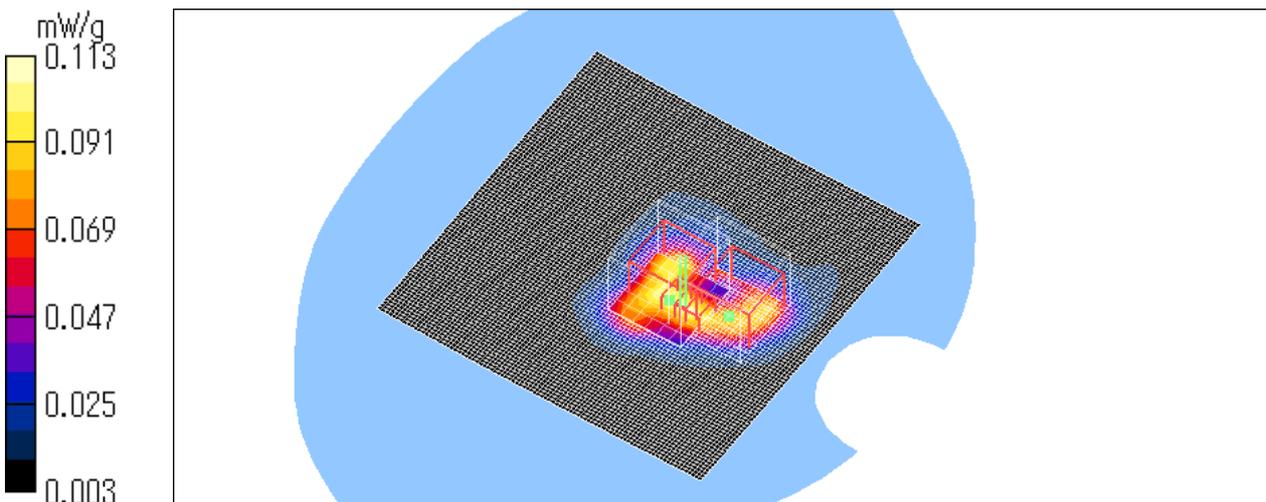
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 5.46 V/m; Power Drift = -0.027 dB  
Peak SAR (extrapolated) = 0.149 W/kg

**SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.039 mW/g**  
Maximum value of SAR (measured) = 0.113 mW/g

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 5.46 V/m; Power Drift = -0.027 dB  
Peak SAR (extrapolated) = 0.146 W/kg

**SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.035 mW/g**  
Maximum value of SAR (measured) = 0.111 mW/g

Test Date = 05/25/07  
Ambient Temperature = 25.0 degree.c  
Liquid Temperature = Before 24.4 degree.C , After 24.4 degree.C



**PSP-2001/ Body / Left side / 2437MHz / 11b(11Mbps)**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (91x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.097 mW/g

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

Reference Value = 5.33 V/m; Power Drift = 0.083 dB

Peak SAR (extrapolated) = 0.165 W/kg

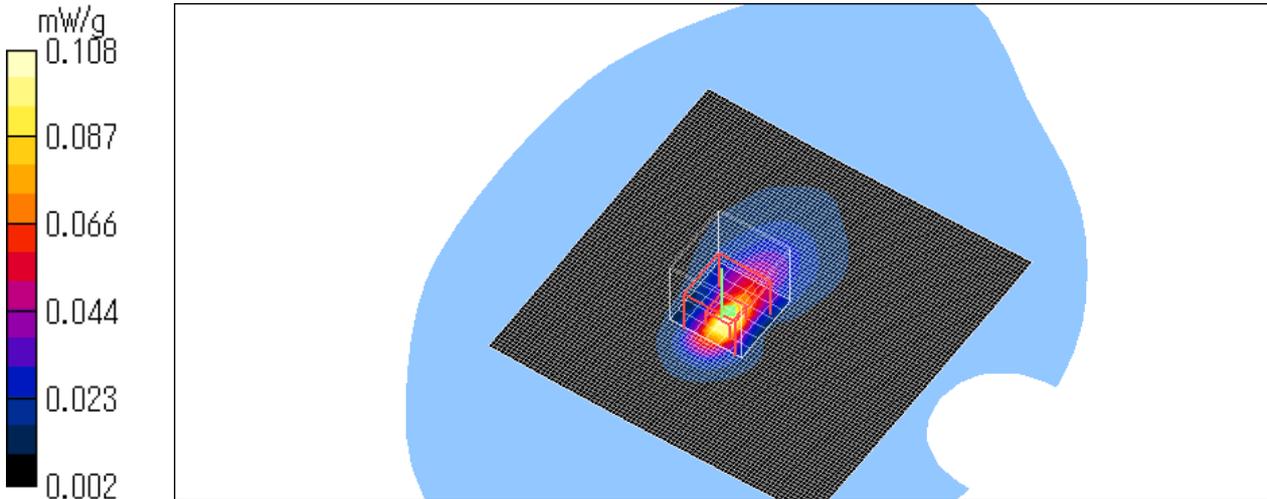
**SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.028 mW/g**

Maximum value of SAR (measured) = 0.108 mW/g

Test Date = 05/25/07

Ambient Temperature = 25.0 degree.c

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



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**PSP-2001/ Body / Bottom / 2437MHz / 11b(11Mbps)**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (91x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.059 mW/g

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

Reference Value = 5.13 V/m; Power Drift = 0.143 dB

Peak SAR (extrapolated) = 0.075 W/kg

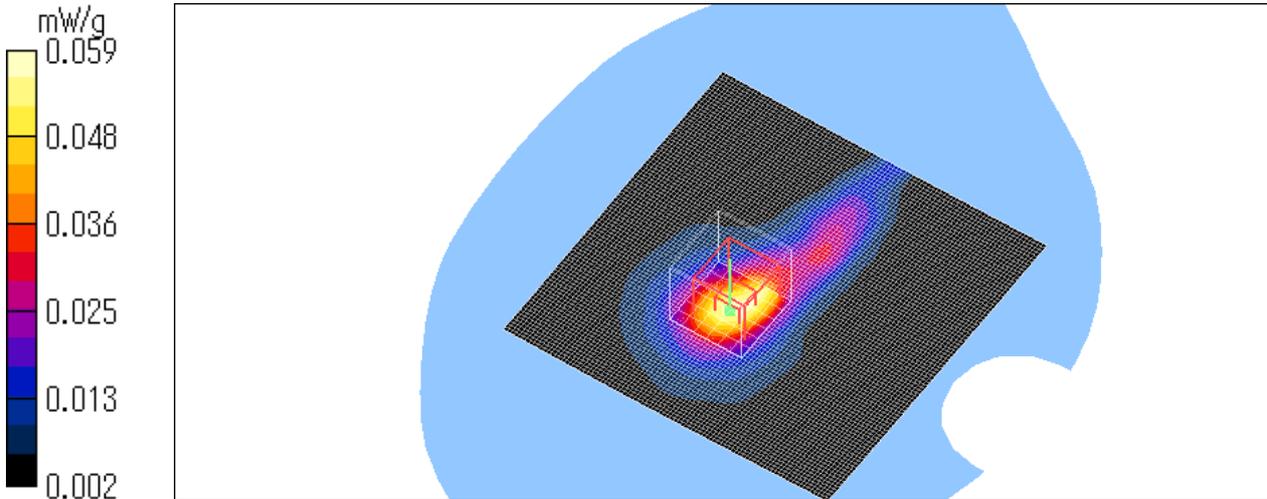
**SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.022 mW/g**

Maximum value of SAR (measured) = 0.059 mW/g

Test Date = 05/25/07

Ambient Temperature = 25.0 degree.c

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



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**PSP-2001/ Body / Top / 2437MHz / 11b(11Mbps)**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (91x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.079 mW/g

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

Reference Value = 2.20 V/m; Power Drift = 0.211 dB

Peak SAR (extrapolated) = 0.117 W/kg

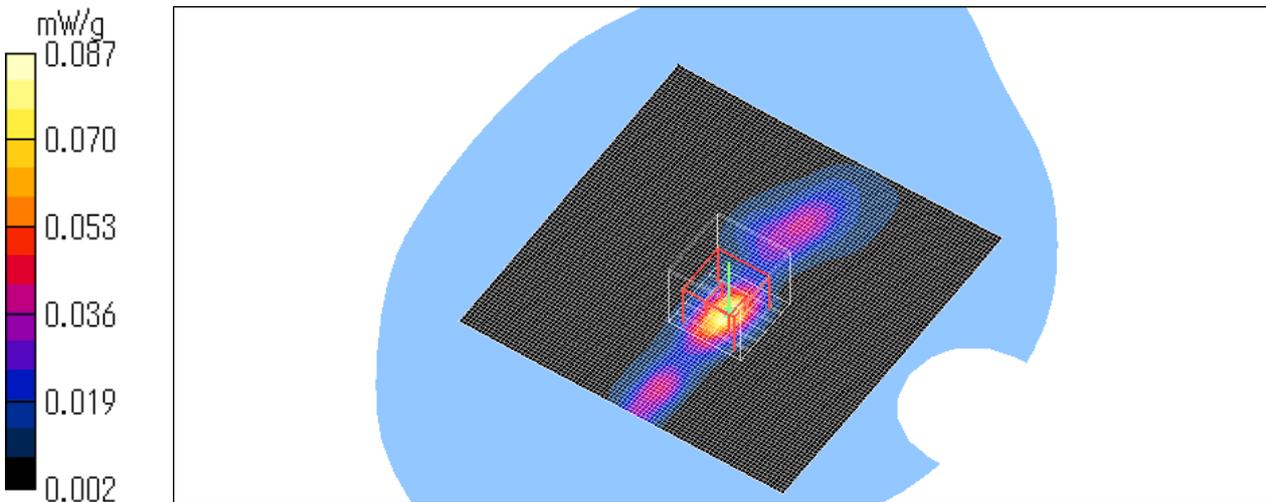
**SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.022 mW/g**

Maximum value of SAR (measured) = 0.087 mW/g

Test Date = 05/25/07

Ambient Temperature = 25.0 degree.c

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



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**PSP-2001/ Body / Front / 2437MHz / 11b(11Mbps) / Changing to the option battery 1**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (91x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.133 mW/g

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

Reference Value = 5.43 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.268 W/kg

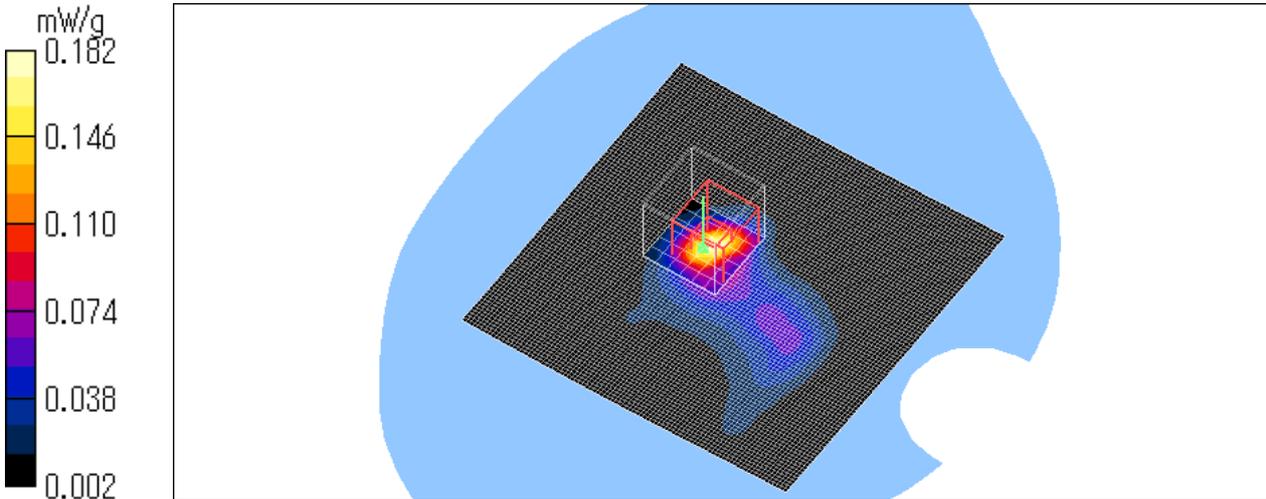
**SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.047 mW/g**

Maximum value of SAR (measured) = 0.182 mW/g

Test Date = 05/25/07

Ambient Temperature = 25.0 degree.c

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



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**PSP-2001/ Body / Front / 2437MHz / 11b(11Mbps) / Changing to the option battery 2**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (81x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.127 mW/g

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

Reference Value = 5.30 V/m; Power Drift = 0.141 dB

Peak SAR (extrapolated) = 0.233 W/kg

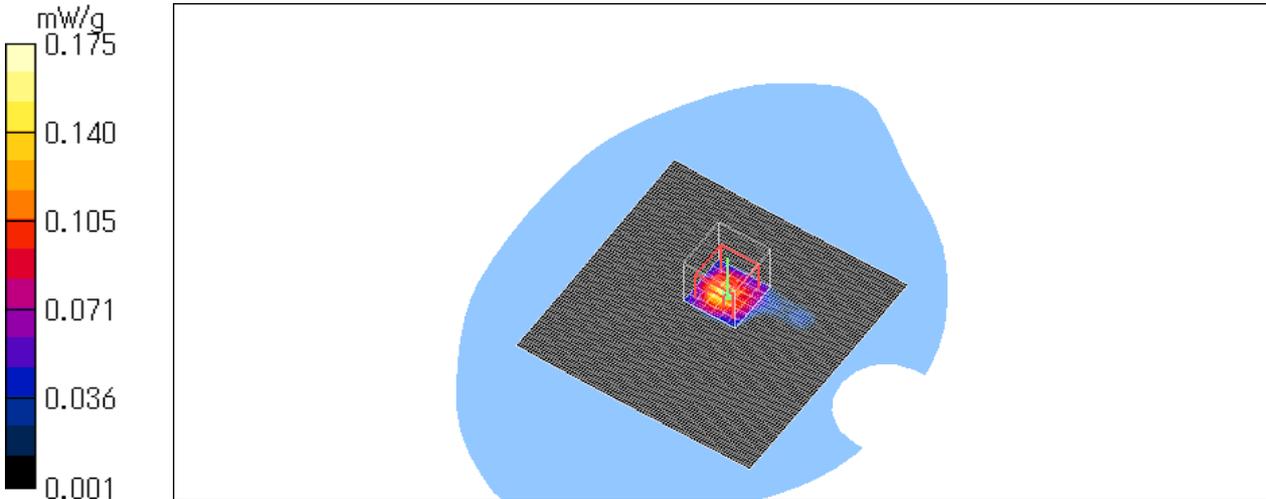
**SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.042 mW/g**

Maximum value of SAR (measured) = 0.175 mW/g

Test Date = 05/25/07

Ambient Temperature = 25.0 degree.c

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



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**PSP-2001/ Body / Front / 2437MHz / 11b(11Mbps) / Changing to the option battery 3**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (91x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.190 mW/g

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

Reference Value = 6.71 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 0.277 W/kg

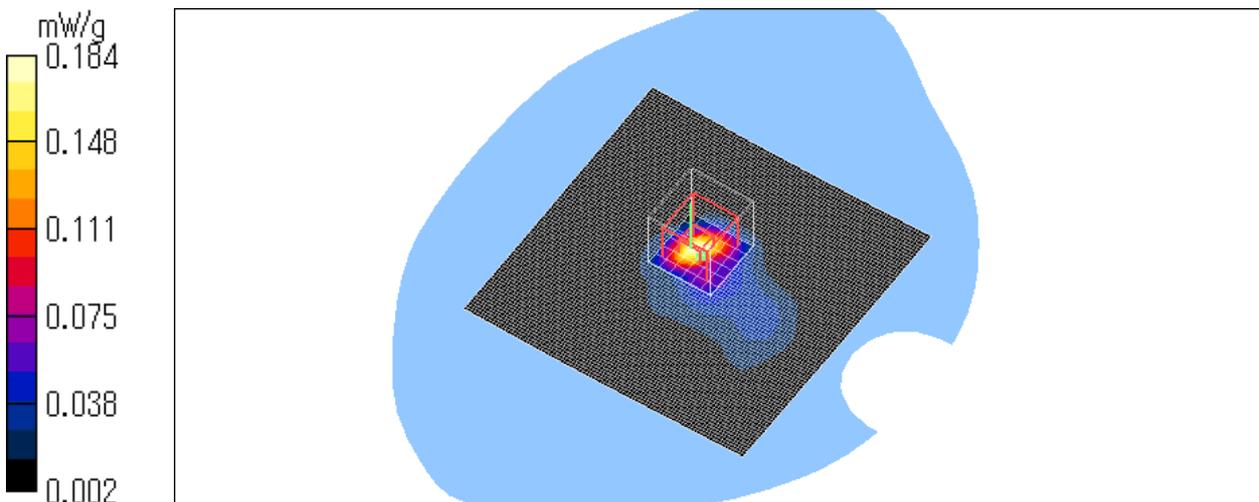
**SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.048 mW/g**

Maximum value of SAR (measured) = 0.184 mW/g

Test Date = 05/25/07

Ambient Temperature = 25.0 degree.c

Liquid Temperature = Before 24.2 degree.C , After 24.2 degree.C



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**PSP-2001/ Body / Front / 2412MHz / 11b(11Mbps)**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (91x91x1):** Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 4.47 V/m; Power Drift = -0.111 dB

Peak SAR (extrapolated) = 0.308 W/kg

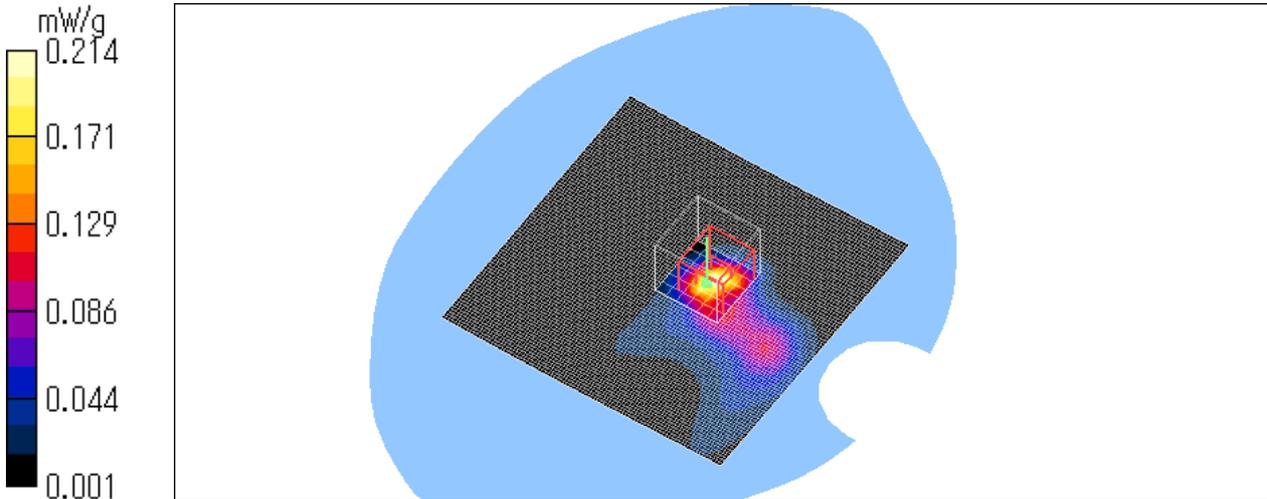
**SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.059 mW/g**

Maximum value of SAR (measured) = 0.214 mW/g

Test Date = 05/25/07

Ambient Temperature = 25.0 degree.c

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



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**PSP-2001/ Body / Front / 2462MHz / 11b(11Mbps)**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (91x91x1):** Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 8.87 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 0.284 W/kg

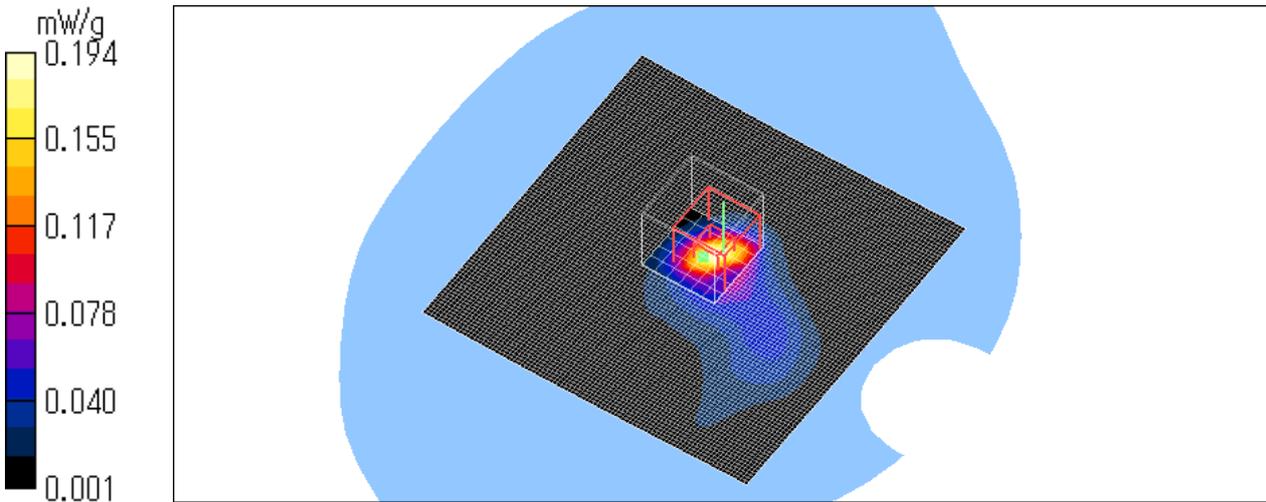
**SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.050 mW/g**

Maximum value of SAR (measured) = 0.194 mW/g

Test Date = 05/25/07

Ambient Temperature = 25.0 degree.c

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



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**PSP-2001/ Body / Front / 2437MHz / 11b(11Mbps) / Separation 5mm**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (91x91x1):** Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 2.84 V/m; Power Drift = 0.391 dB

Peak SAR (extrapolated) = 0.209 W/kg

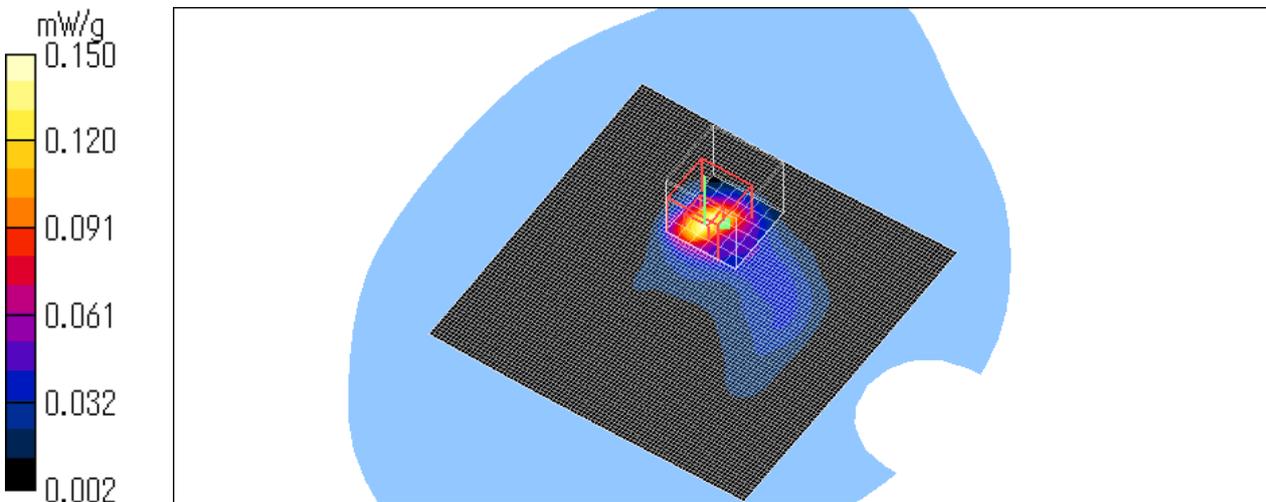
**SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.039 mW/g**

Maximum value of SAR (measured) = 0.150 mW/g

Test Date = 05/25/07

Ambient Temperature = 25.0 degree.c

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



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**PSP-2001/ Body / Front / 2437MHz / 11b(11Mbps) / Separation 10mm**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (91x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.050 mW/g

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

Reference Value = 2.56 V/m; Power Drift = -0.199 dB

Peak SAR (extrapolated) = 0.065 W/kg

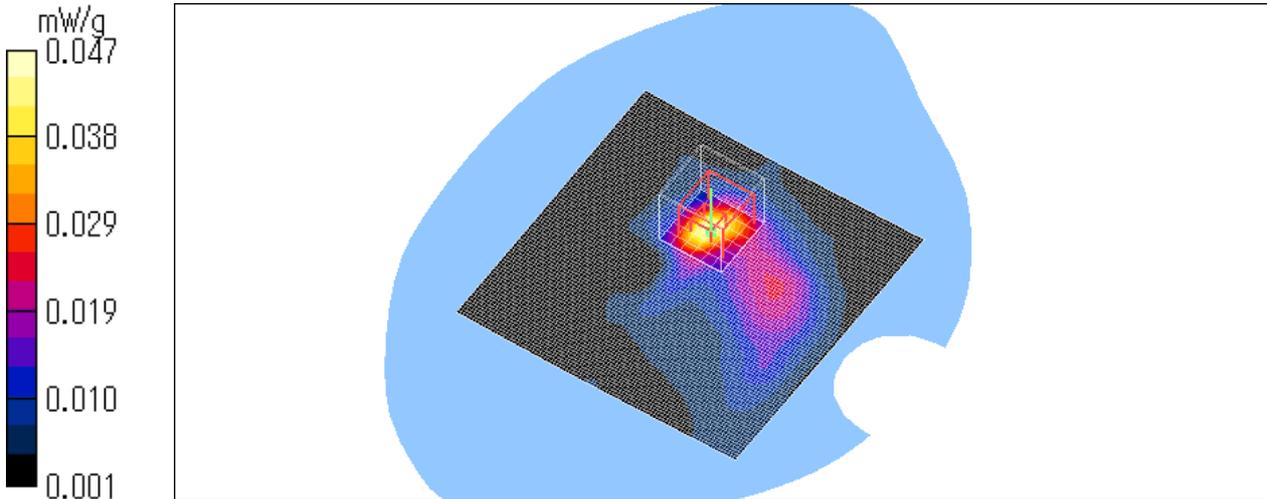
**SAR(1 g) = 0.031 mW/g; SAR(10 g) = 0.016 mW/g**

Maximum value of SAR (measured) = 0.047 mW/g

Test Date = 05/25/07

Ambient Temperature = 25.0 degree.c

Liquid Temperature = Before 24.2 degree.C , After 24.1 degree.C



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**PSP-2001/ Body / Front / 2437MHz / 11b(11Mbps) / Separation15mm**

Crest factor: 1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3540; ConvF(7.8, 7.8, 7.8); Calibrated: 2007/01/19

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Phantom: SAM 1196

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**Area Scan (91x91x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.019 mW/g

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

Reference Value = 1.66 V/m; Power Drift = -0.215 dB

Peak SAR (extrapolated) = 0.025 W/kg

**SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00873 mW/g**

Maximum value of SAR (measured) = 0.019 mW/g

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.66 V/m; Power Drift = -0.215 dB

Peak SAR (extrapolated) = 0.016 W/kg

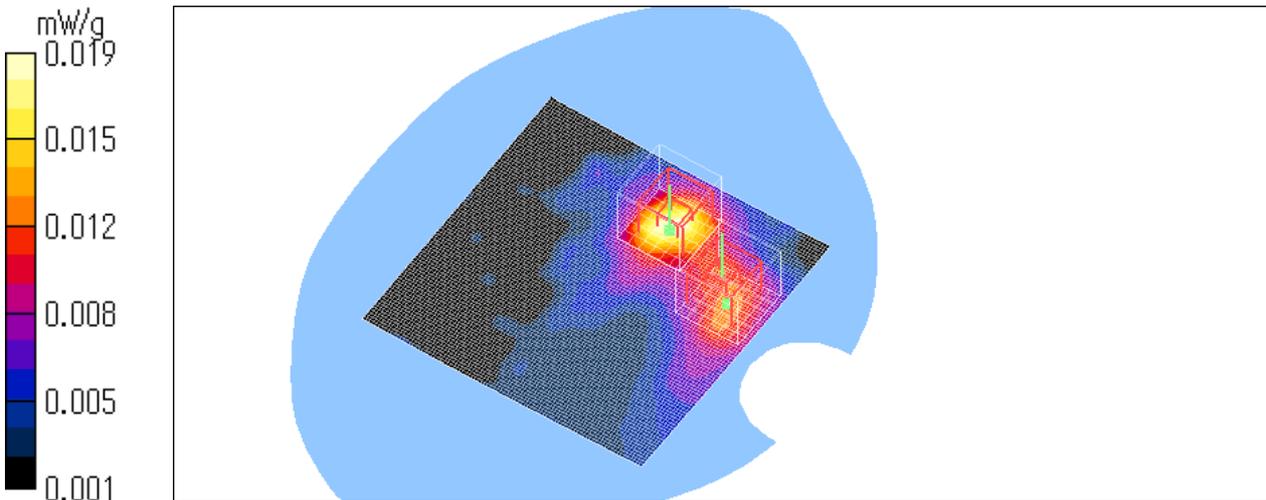
**SAR(1 g) = 0.0094 mW/g; SAR(10 g) = 0.00617 mW/g**

Maximum value of SAR (measured) = 0.013 mW/g

Test Date = 05/25/07

Ambient Temperature = 25.0 degree.c

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



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