

Test report No. : 26IE0327-HO-E-1
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Issued date : November 6, 2006
Revised date : November 10, 2006
FCC ID : T9F500SEW1

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 32mm x 32mm x 30mm was assessed by measuring 8 x 8 x 5 points. And for any secondary peaks found in the Step2 which are within 2dB of maximum peak (level more than ambient noise ($\geq 0.012 \text{ W/kg}$)) 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.

2. Body measurement data

Caplio 500SE-W / Body / Back / 2437MHz / 11b DBPSK(1Mbps)

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (81x91x1): Measurement grid: dx=15mm, dy=15mm

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

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.33 V/m; Power Drift = 0.079 dB

Peak SAR (extrapolated) = 0.066 W/kg

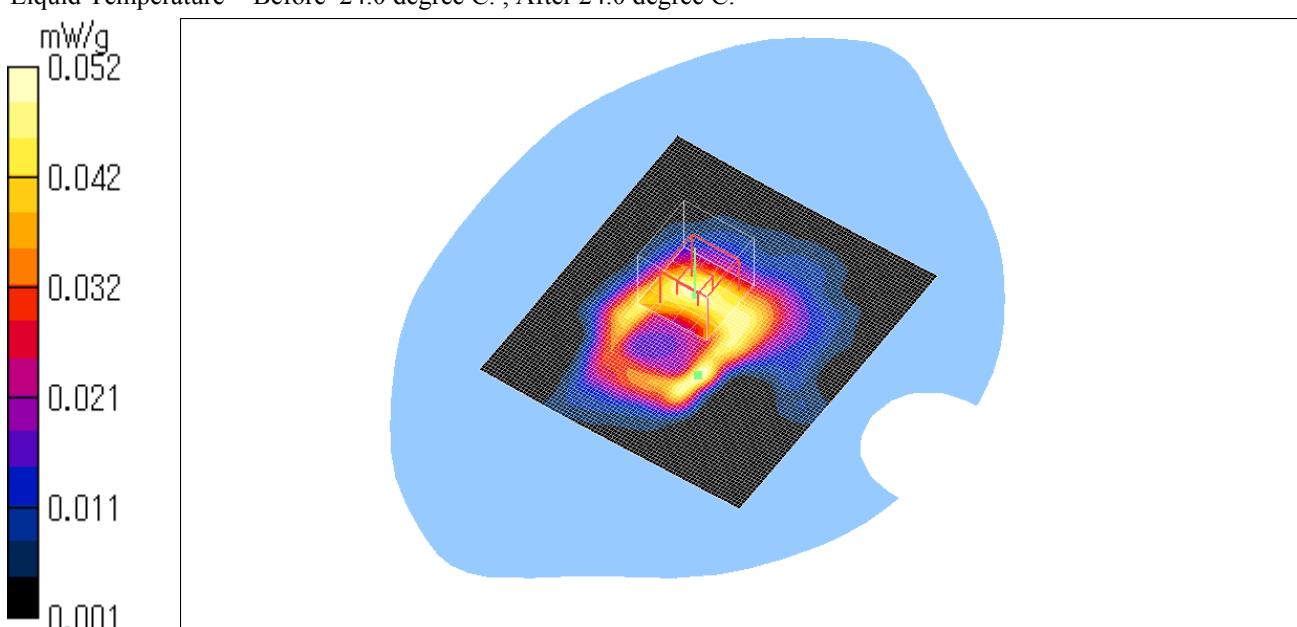
SAR(1 g) = 0.038 mW/g; SAR(10 g) = 0.022 mW/g

Maximum value of SAR (measured) = 0.052 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2437MHz / 11b DBPSK(1Mbps)

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (81x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.117 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.11 V/m; Power Drift = -0.157 dB

Peak SAR (extrapolated) = 0.134 W/kg

SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.045 mW/g

Maximum value of SAR (measured) = 0.106 mW/g

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.11 V/m; Power Drift = -0.157 dB

Peak SAR (extrapolated) = 0.122 W/kg

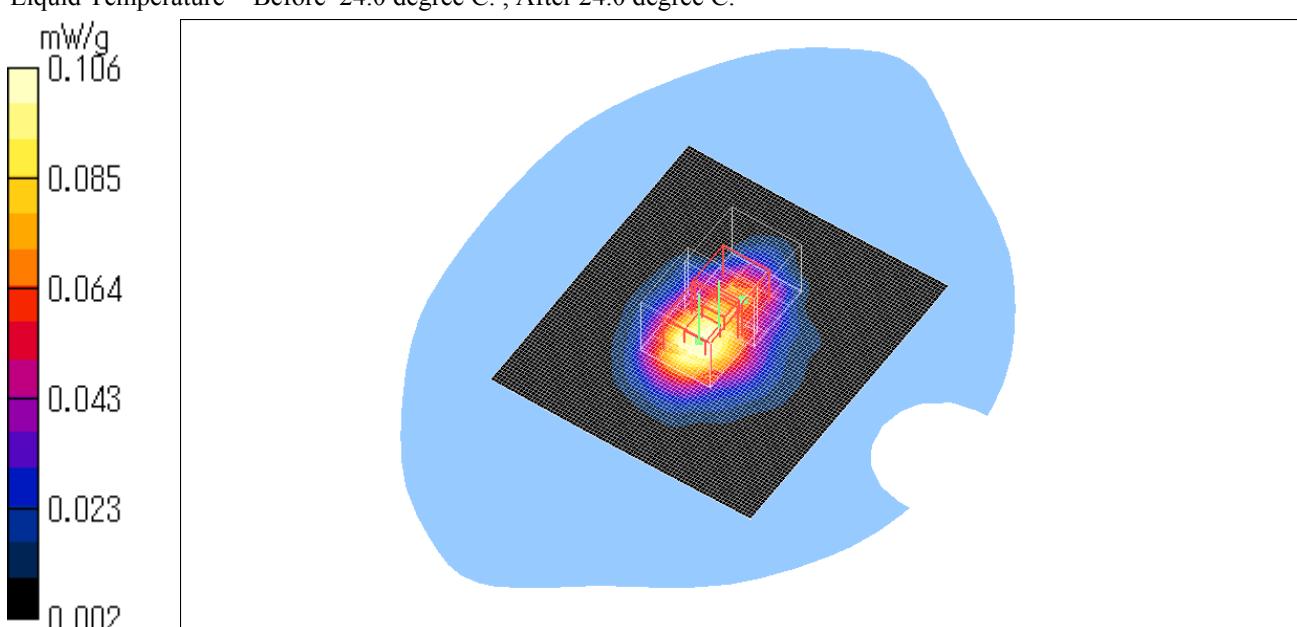
SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.032 mW/g

Maximum value of SAR (measured) = 0.094 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



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Caplio 500SE-W / Body / Top / 2437MHz / 11b DBPSK(1Mbps)

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (81x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.071 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.82 V/m; Power Drift = 0.036 dB

Peak SAR (extrapolated) = 0.083 W/kg

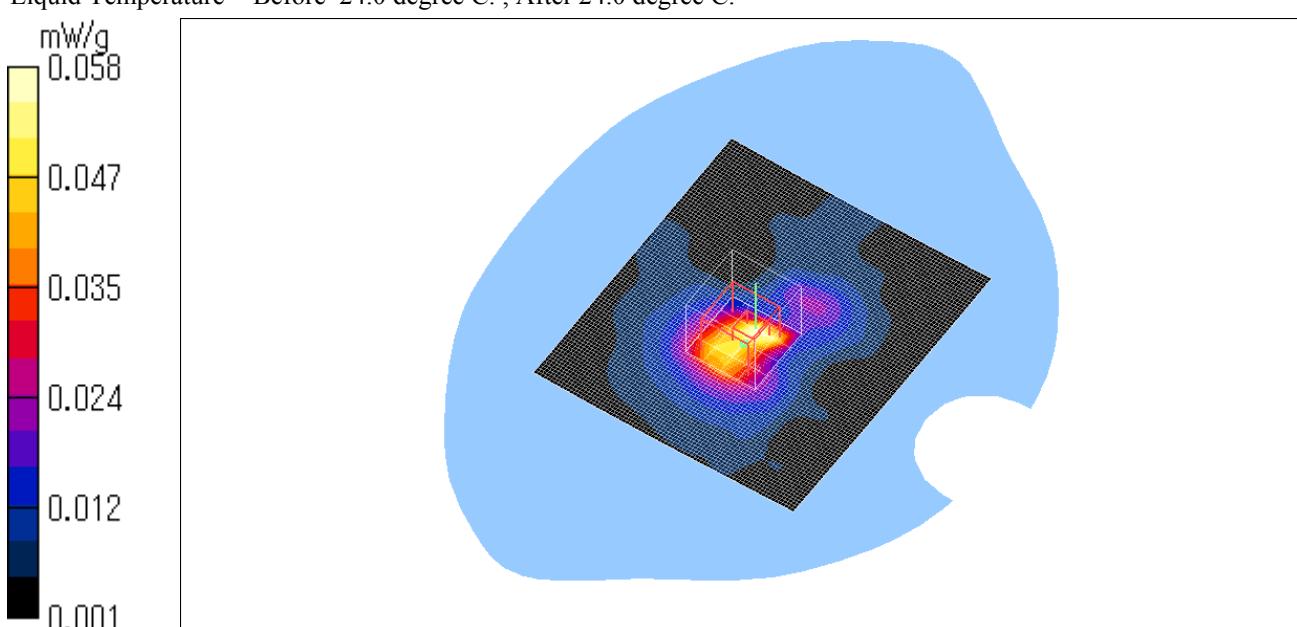
SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.021 mW/g

Maximum value of SAR (measured) = 0.058 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Bottom / 2437MHz / 11b DBPSK(1Mbps)

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (81x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.018 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.12 V/m; Power Drift = 0.237 dB

Peak SAR (extrapolated) = 0.021 W/kg

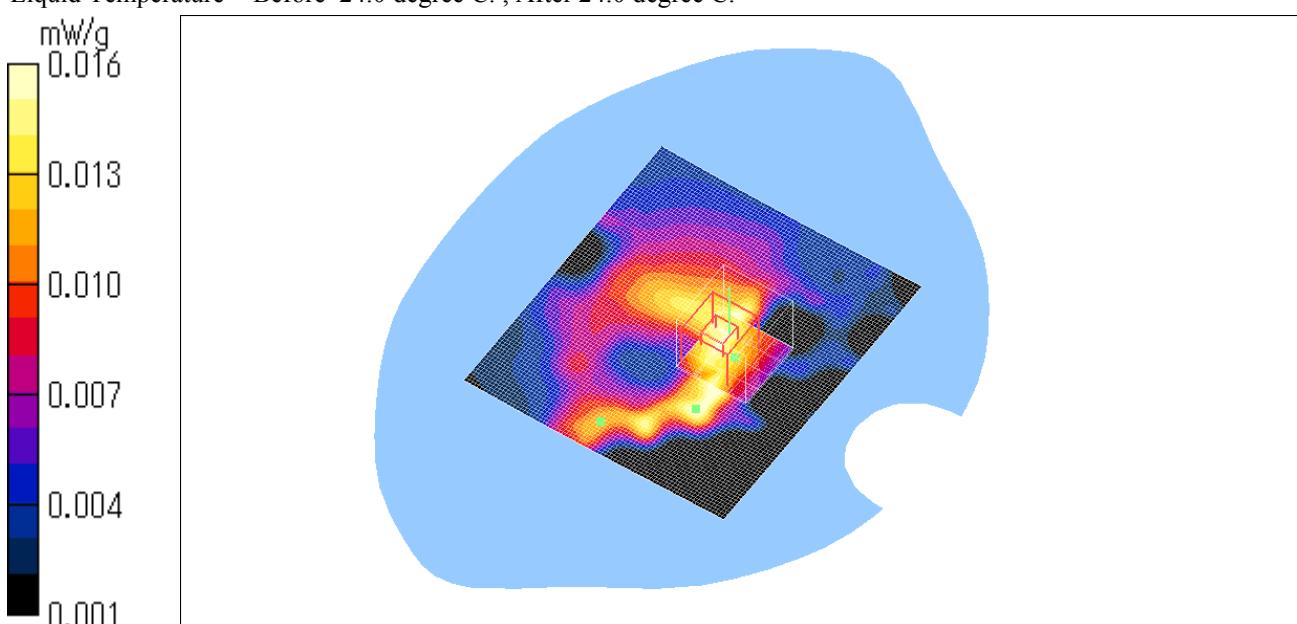
SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00659 mW/g.

Maximum value of SAR (measured) = 0.016 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2437MHz / 11b DQPSK(2Mbps)

Crest Factor: 1.2

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.093 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.29 V/m; Power Drift = -0.209 dB

Peak SAR (extrapolated) = 0.121 W/kg

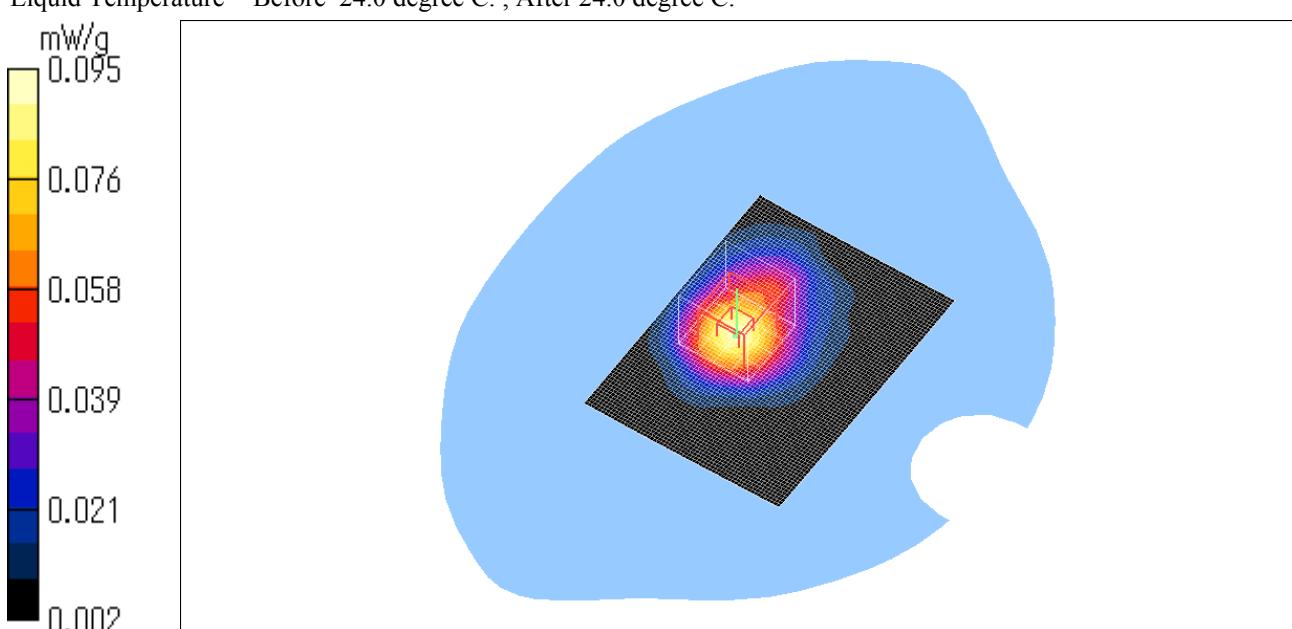
SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.039 mW/g

Maximum value of SAR (measured) = 0.095 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2437MHz / 11b CCK(5.5Mbps)

Crest Factor: 2.3

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.042 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.15 V/m; Power Drift = 0.106 dB

Peak SAR (extrapolated) = 0.054 W/kg

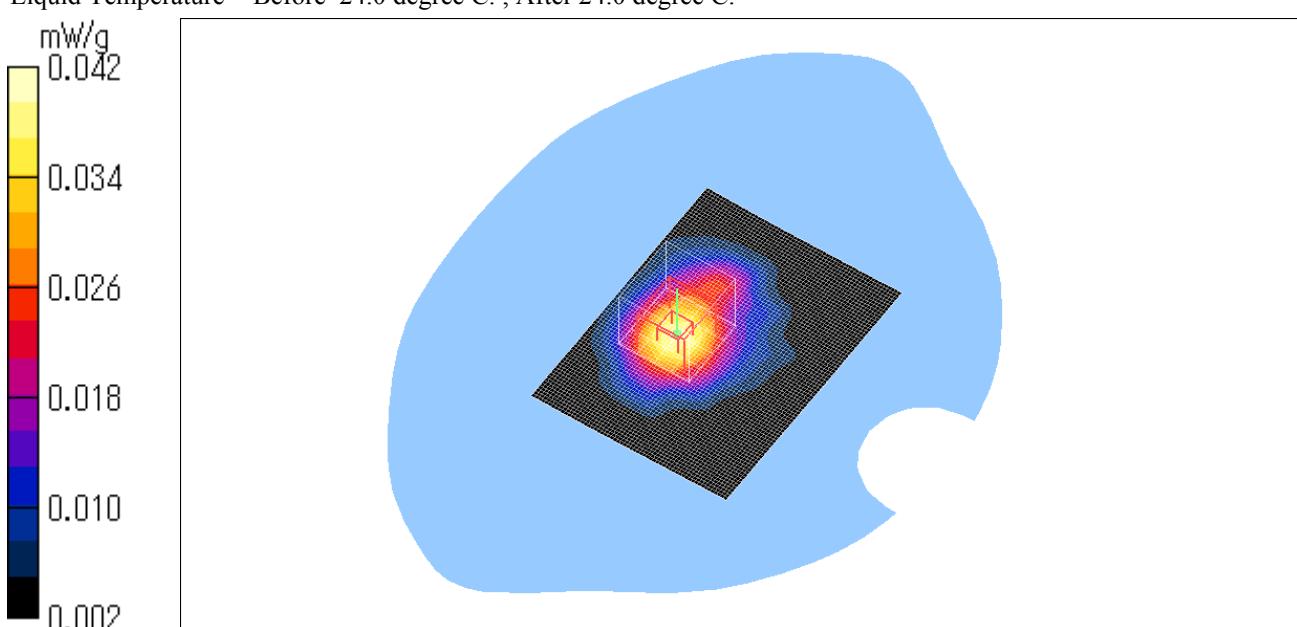
SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.018 mW/g

Maximum value of SAR (measured) = 0.042 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2437MHz / 11b CCK11Mbps)

Crest Factor: 3.8

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.022 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.23 V/m; Power Drift = 0.255 dB

Peak SAR (extrapolated) = 0.030 W/kg

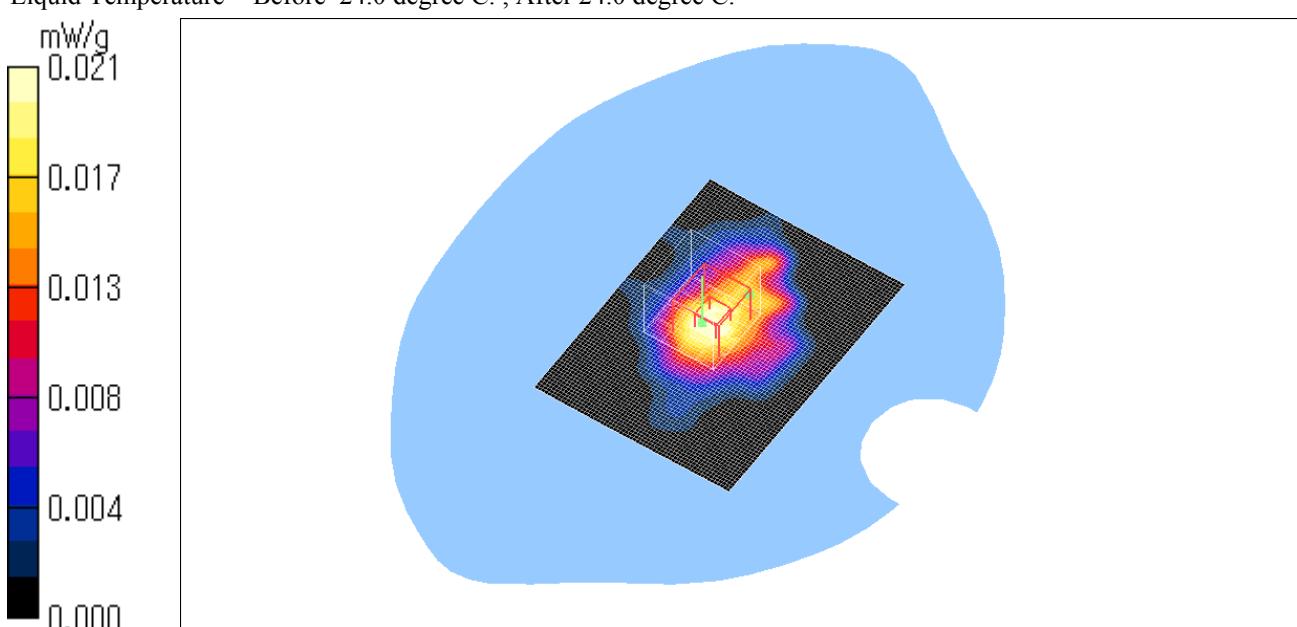
SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.0093 mW/g

Maximum value of SAR (measured) = 0.021 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2412MHz / 11b DBPSK(1Mbps)

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.62 V/m; Power Drift = -0.227 dB

Peak SAR (extrapolated) = 0.143 W/kg

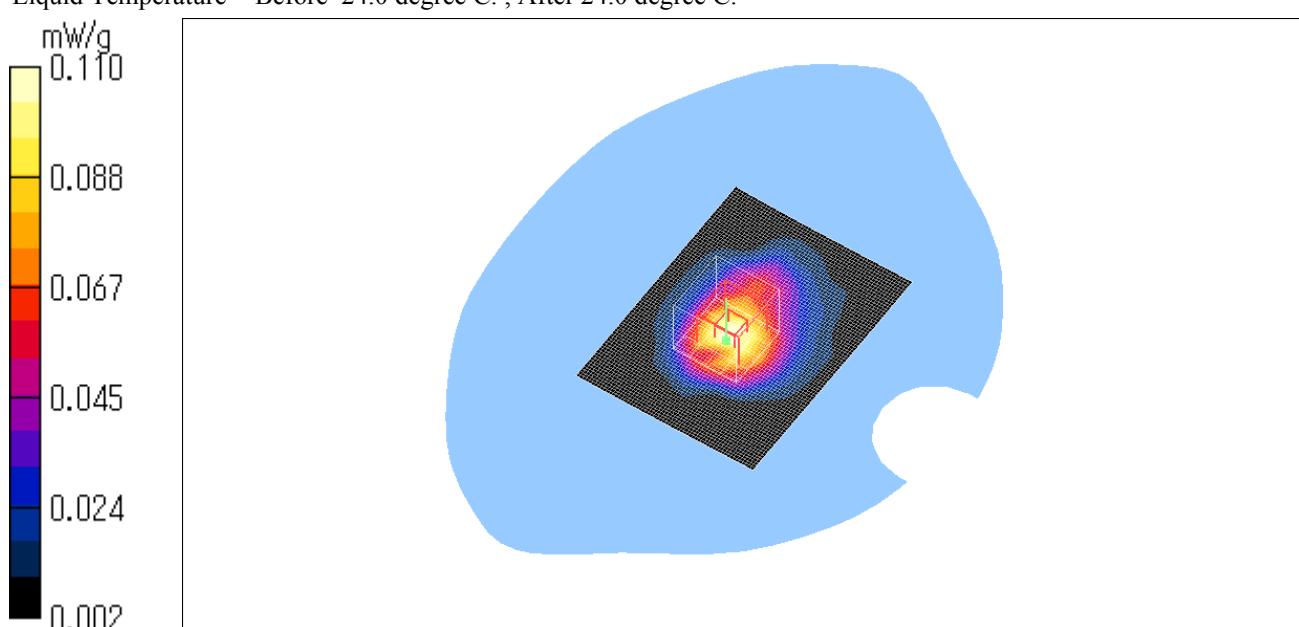
SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.048 mW/g

Maximum value of SAR (measured) = 0.110 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Z-axis scan at max SAR location

Caplio 500SE-W / Body / Right Side / 2412MHz / 11b DBPSK(1Mbps)

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

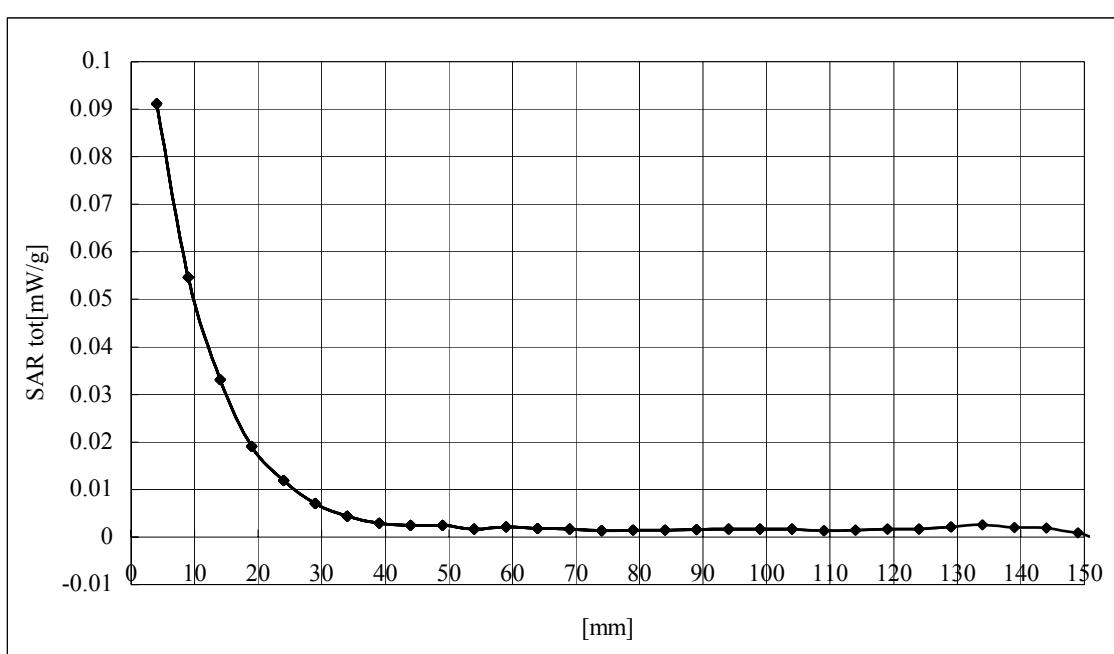
Probe: EX3DV3 - SN3507; ConvF(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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



Caplio 500SE-W / Body / Right Side / 2462MHz / 11b DBPSK(1Mbps)

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.076 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.48 V/m; Power Drift = -0.244 dB

Peak SAR (extrapolated) = 0.093 W/kg

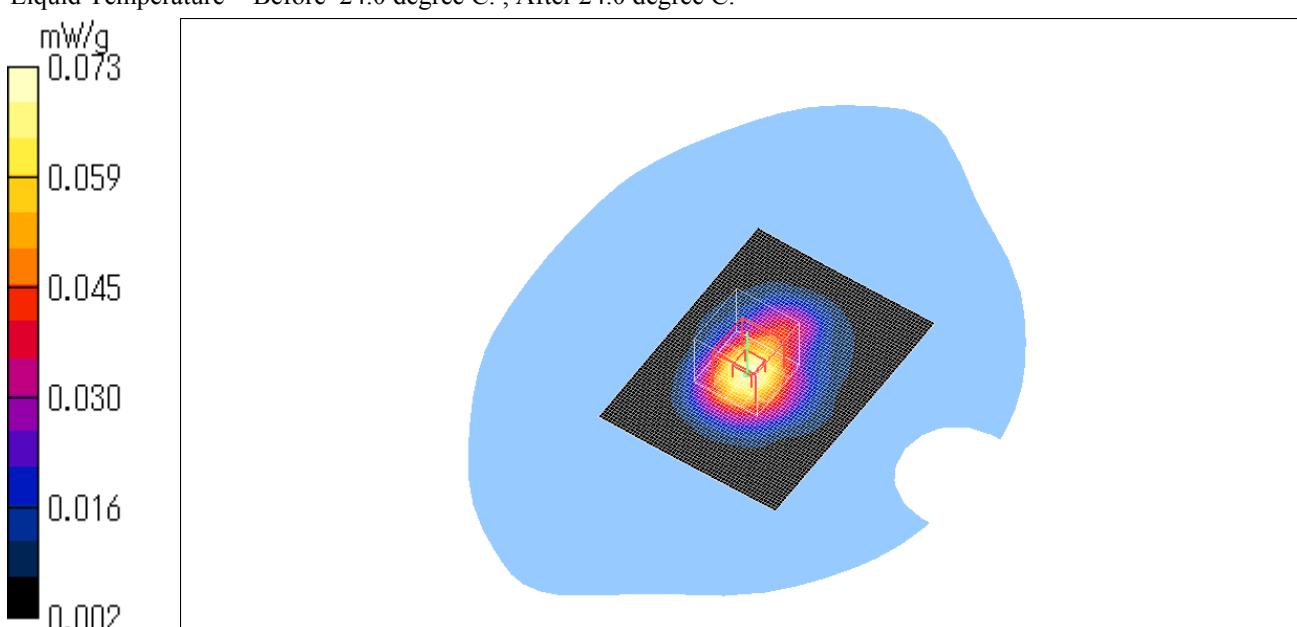
SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.030 mW/g

Maximum value of SAR (measured) = 0.073 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2437MHz / 11g BPSK(9Mbps)

Crest Factor: 3.6

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

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) = 0.012 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.87 V/m; Power Drift = 0.250 dB

Peak SAR (extrapolated) = 0.012 W/kg

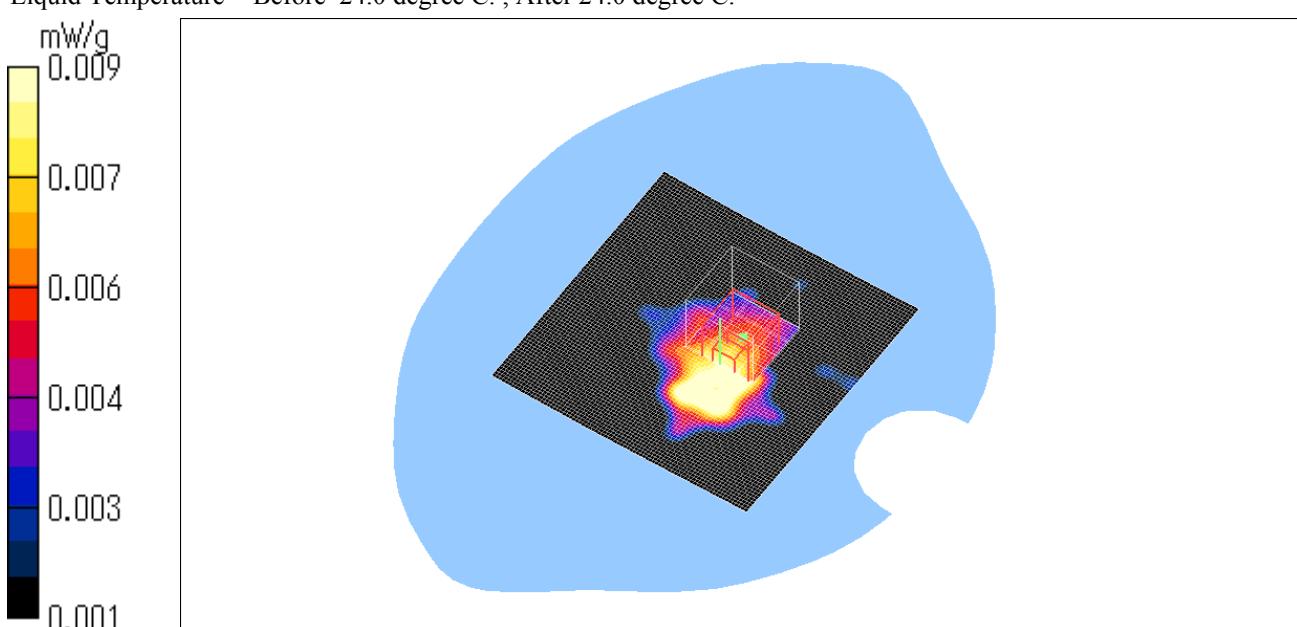
SAR(1 g) = 0.00604 mW/g; SAR(10 g) = 0.00358 mW/g

Maximum value of SAR (measured) = 0.009 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2437MHz / 11g QPSK(12Mbps)

Crest Factor: 5.3

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

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) = 0.011 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.63 V/m; Power Drift = 0.249 dB

Peak SAR (extrapolated) = 0.007 W/kg

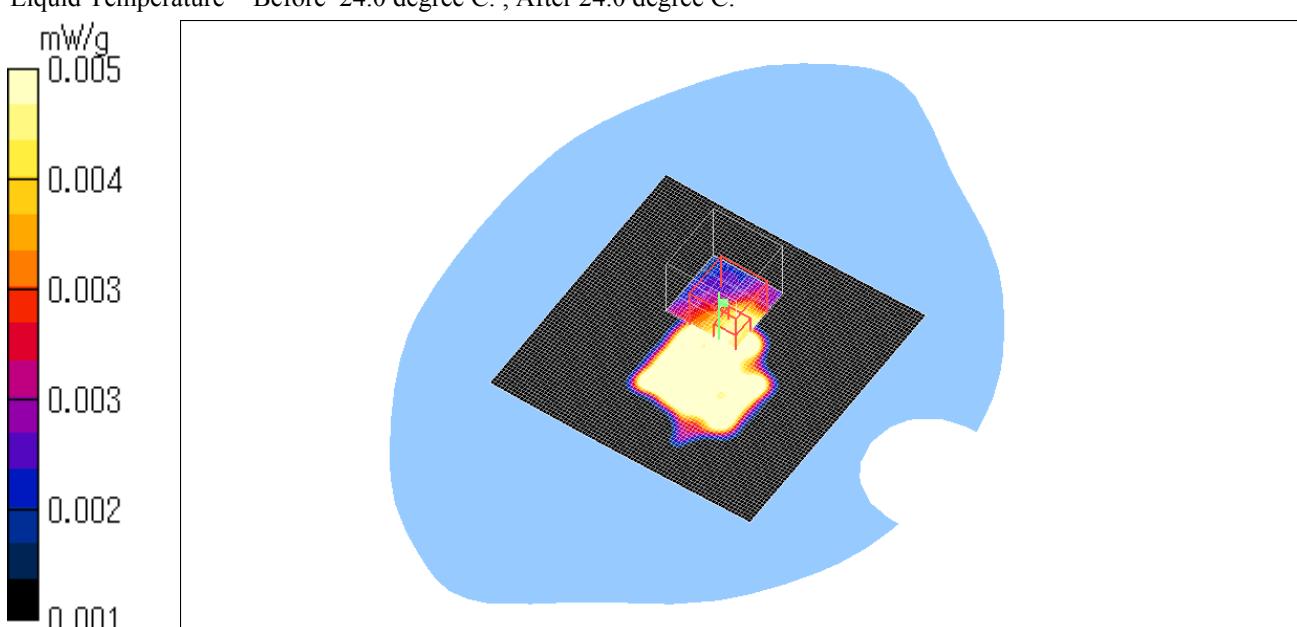
SAR(1 g) = 0.00377 mW/g; SAR(10 g) = 0.00263 mW/g

Maximum value of SAR (measured) = 0.005 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2437MHz / 11g 16QAM(36Mbps)

Crest Factor: 13.8

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

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) = 0.006 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.02 V/m; Power Drift = 0.228 dB

Peak SAR (extrapolated) = 0.004 W/kg

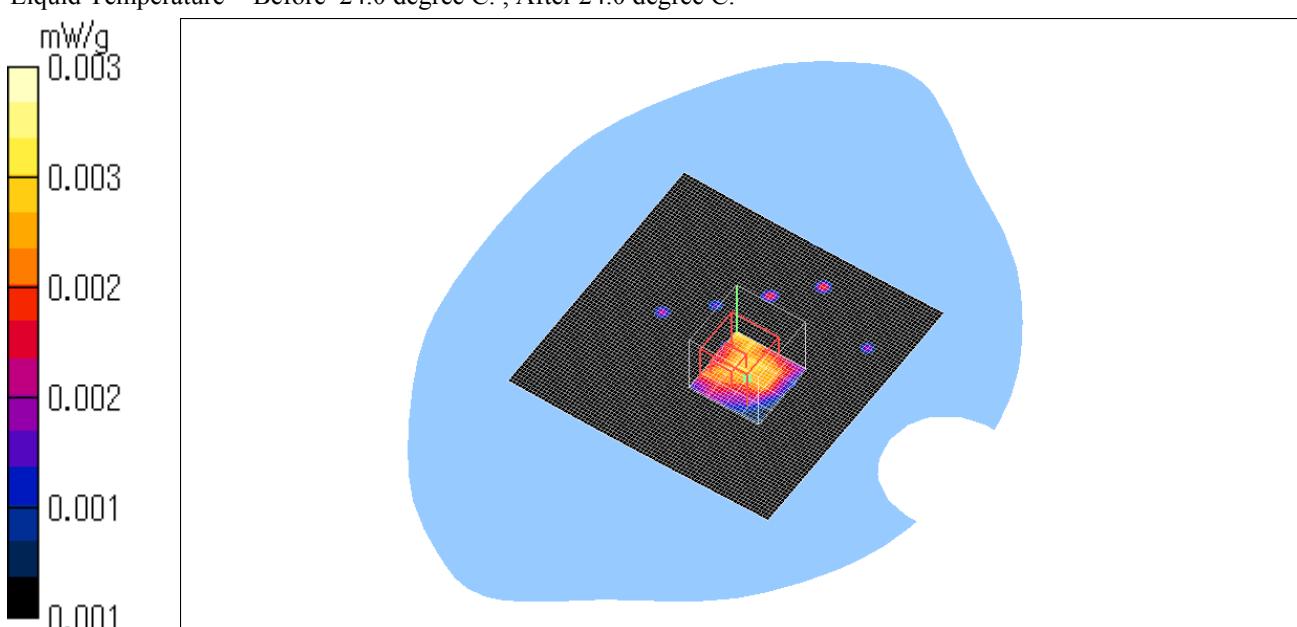
SAR(1 g) = 0.00226 mW/g; SAR(10 g) = 0.0017 mW/g

Maximum value of SAR (measured) = 0.003 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2437MHz / 11g 64QAM(48Mbps)

Crest Factor: 19.6

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

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) = 0.005 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.20 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.005 W/kg

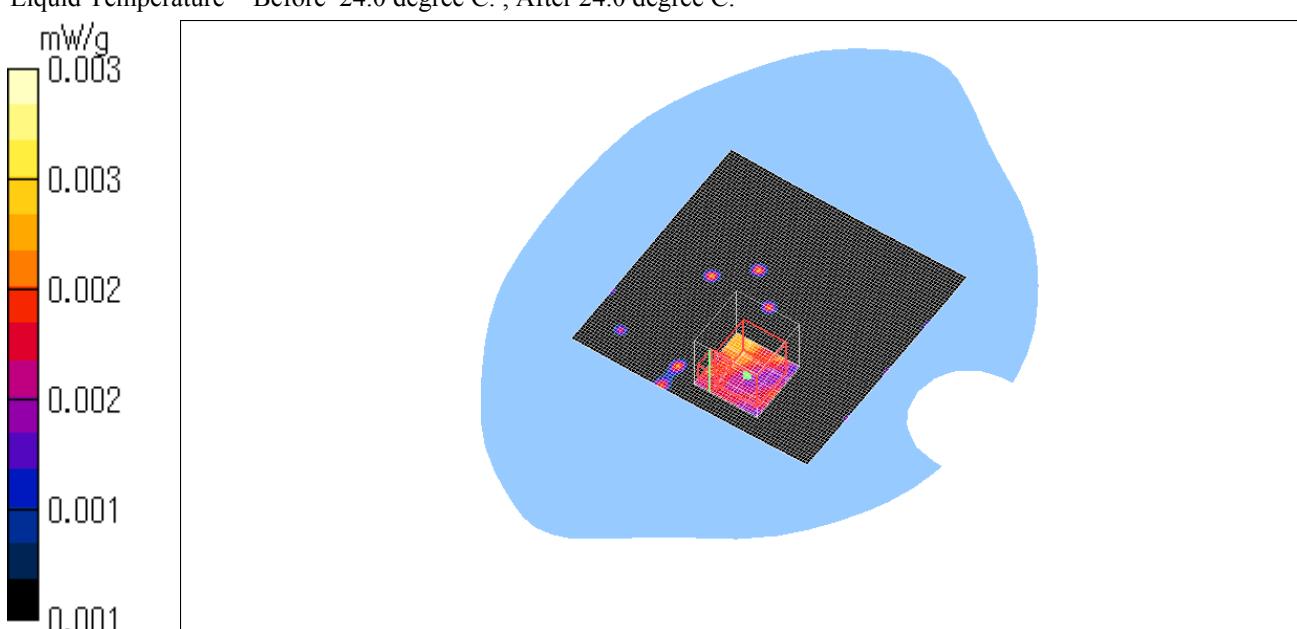
SAR(1 g) = 0.00273 mW/g; SAR(10 g) = 0.00205 mW/g

Maximum value of SAR (measured) = 0.003 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2412MHz / 11g BPSK(9Mbps)

Crest Factor: 3.6

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

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) = 0.017 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.05 V/m; Power Drift = 0.235 dB

Peak SAR (extrapolated) = 0.016 W/kg

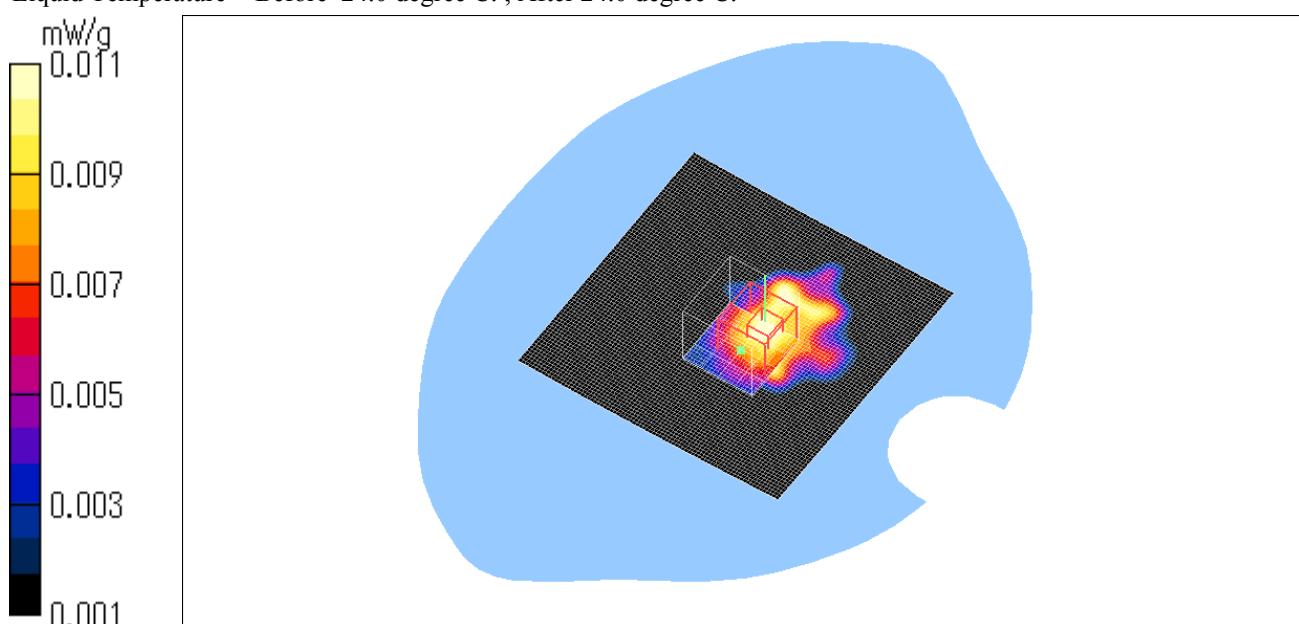
SAR(1 g) = 0.00828 mW/g; SAR(10 g) = 0.00489 mW/g

Maximum value of SAR (measured) = 0.011 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2462MHz / 11g BPSK(9Mbps)

Crest Factor: 3.6

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

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) = 0.010 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.58 V/m; Power Drift = 0.233 dB

Peak SAR (extrapolated) = 0.009 W/kg

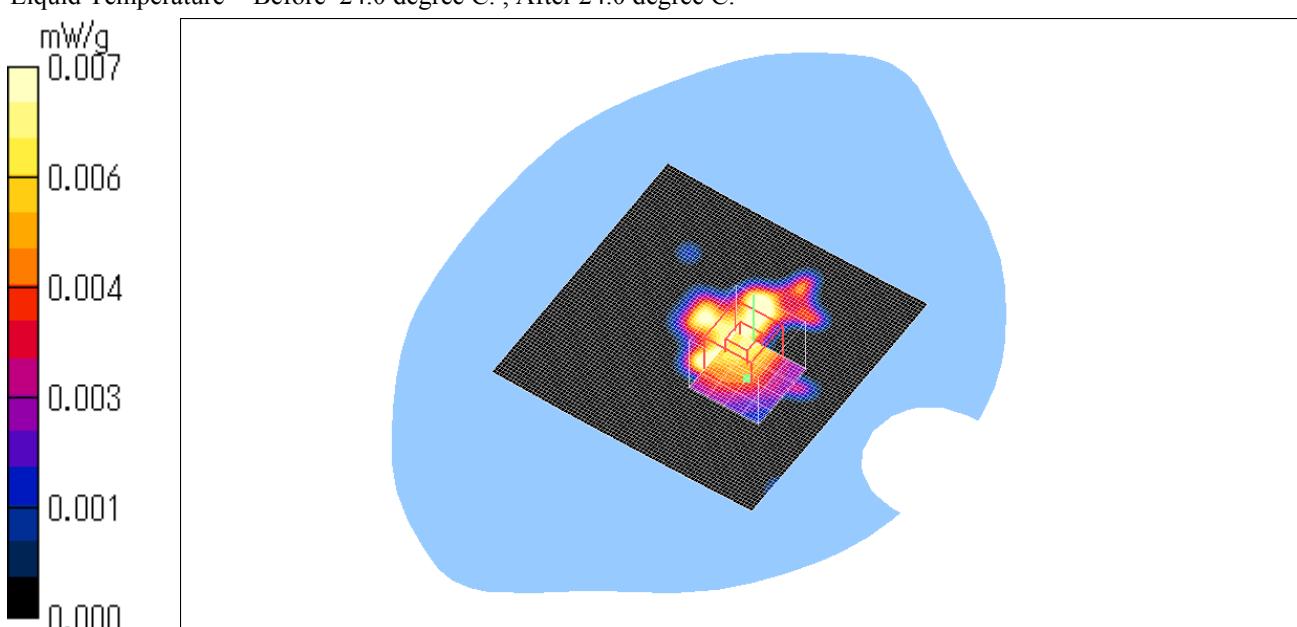
SAR(1 g) = 0.00479 mW/g; SAR(10 g) = 0.00313 mW/g

Maximum value of SAR (measured) = 0.007 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2412MHz / 11b DBPSK(1Mbps) / Separated 5mm

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.083 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.94 V/m; Power Drift = -0.231 dB

Peak SAR (extrapolated) = 0.102 W/kg

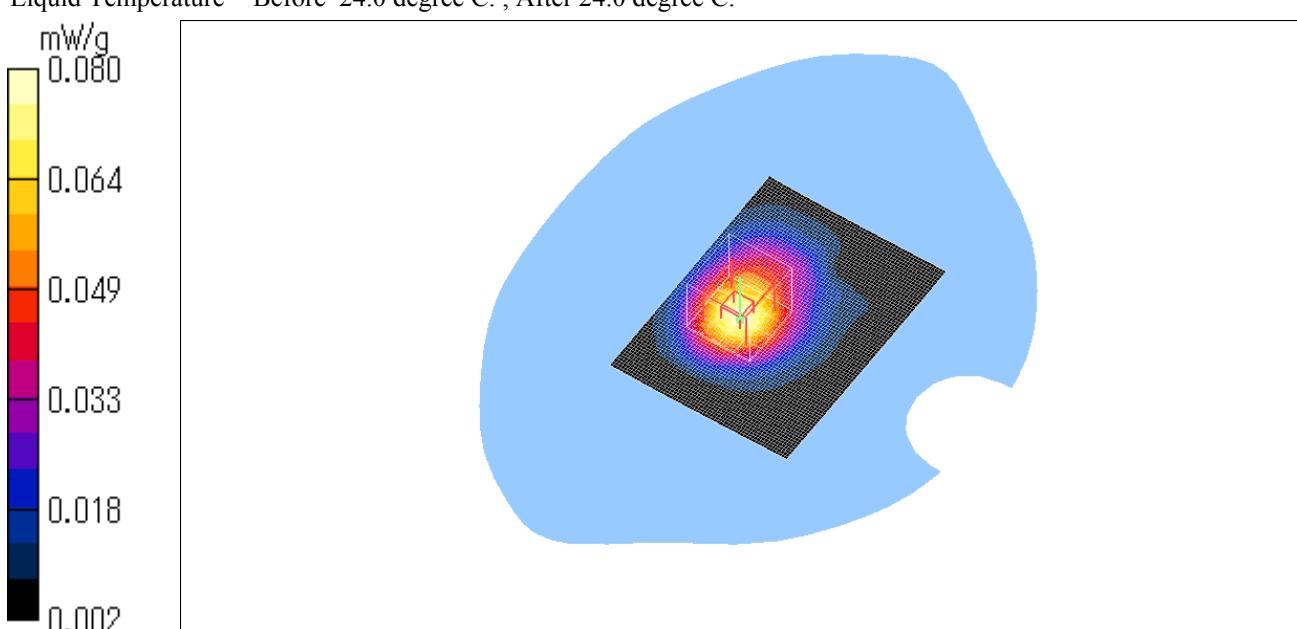
SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.035 mW/g

Maximum value of SAR (measured) = 0.080 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2412MHz / 11b DBPSK(1Mbps) / Separated 10mm

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

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

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.63 V/m; Power Drift = 0.222 dB

Peak SAR (extrapolated) = 0.070 W/kg

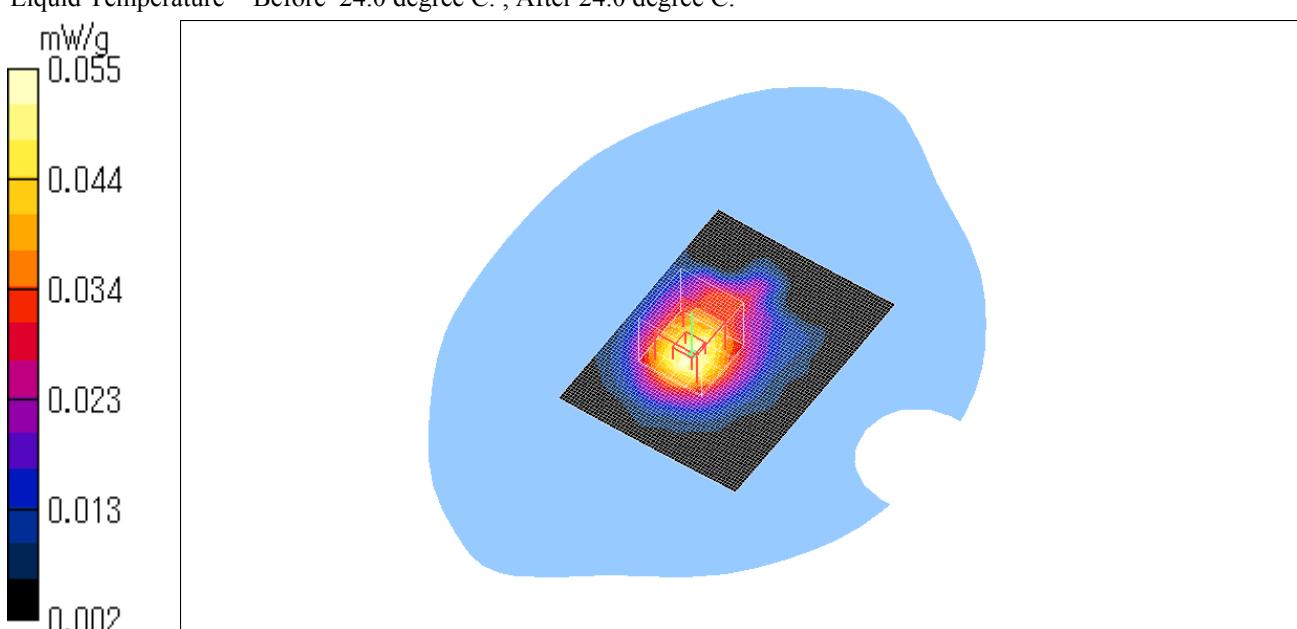
SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.024 mW/g

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

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



Caplio 500SE-W / Body / Right Side / 2412MHz / 11b DBPSK(1Mbps) / Separated 15mm

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.01$ 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(8.24, 8.24, 8.24); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.036 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.34 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 0.047 W/kg

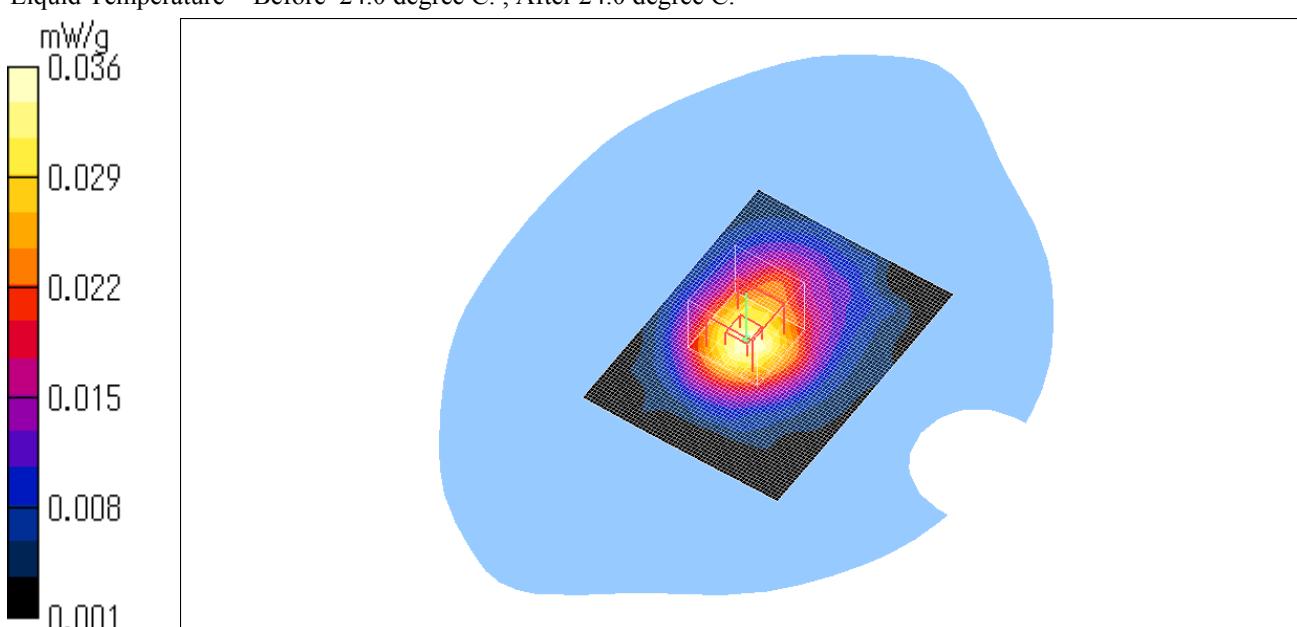
SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.016 mW/g

Maximum value of SAR (measured) = 0.036 mW/g

Test Date = 10/19/06

Ambient Temperature = 24.5 degree C.

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



3. Head measurement data (Reference data)

Caplio 500SE-W / Head / Right Side / 2437MHz / 11b DBPSK(1Mbps)

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (81x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.111 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.71 V/m; Power Drift = -0.237 dB

Peak SAR (extrapolated) = 0.141 W/kg

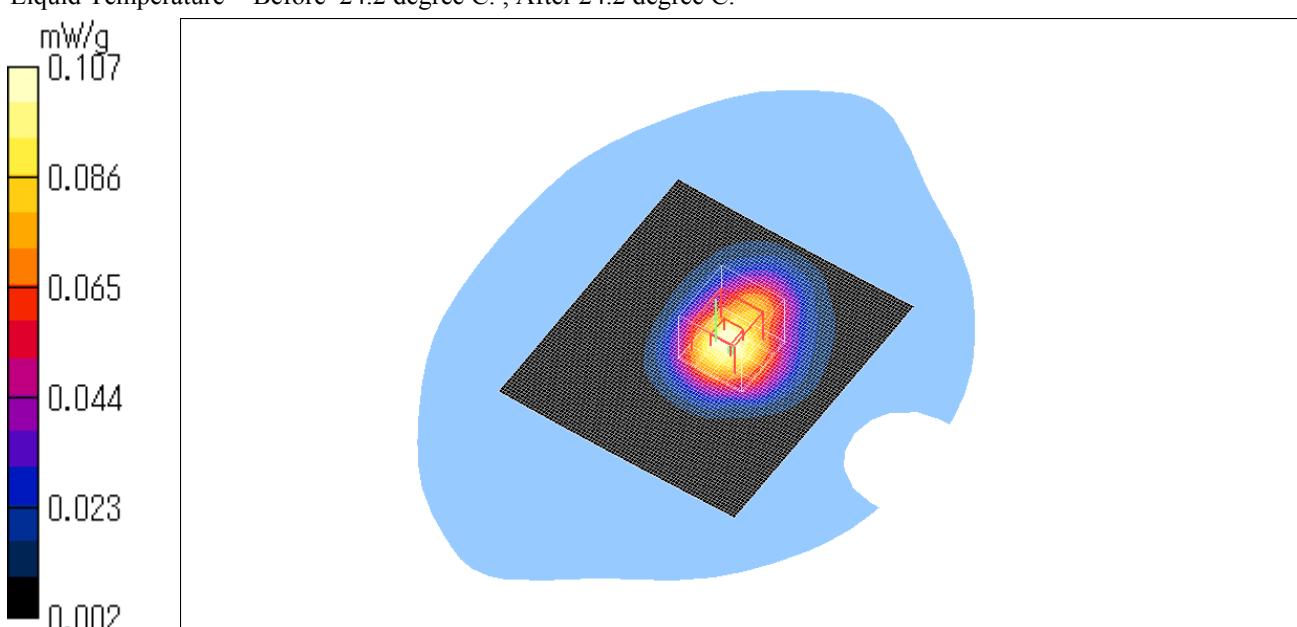
SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.045 mW/g

Maximum value of SAR (measured) = 0.107 mW/g

Test Date = 10/20/06

Ambient Temperature = 24.7 degree C.

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



Caplio 500SE-W / Head / Right Side / 2412MHz / 11b DBPSK(1Mbps)

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (81x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.146 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.29 V/m; Power Drift = -0.230 dB

Peak SAR (extrapolated) = 0.176 W/kg

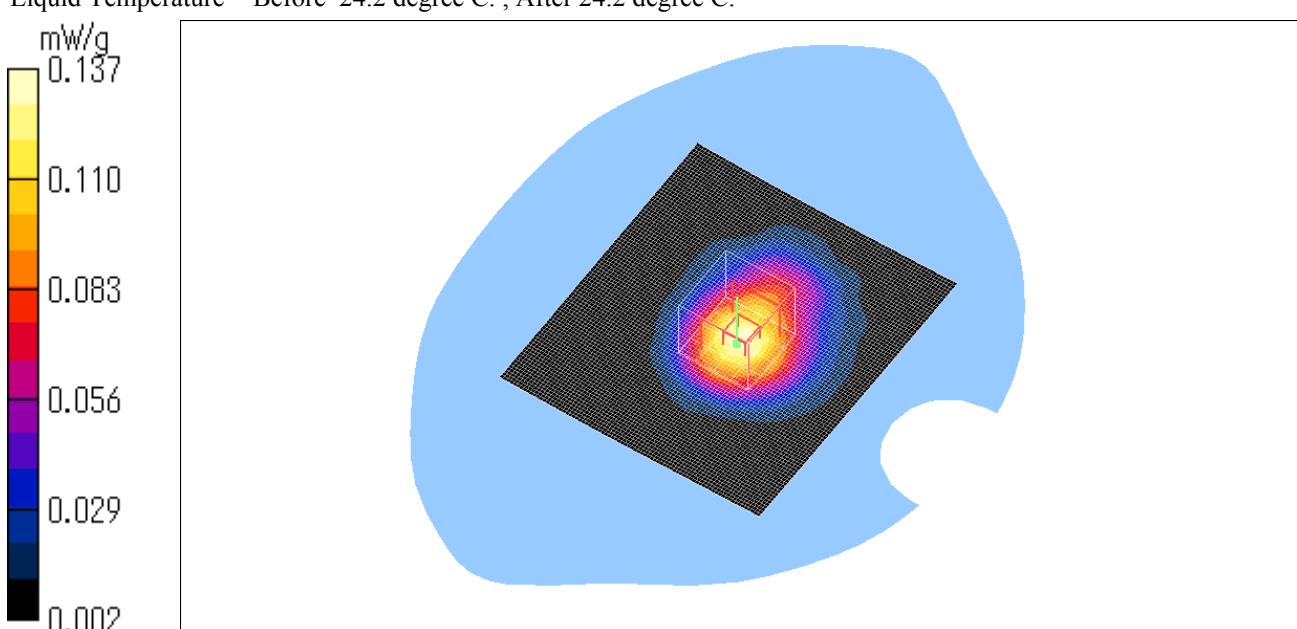
SAR(1 g) = 0.100 mW/g; SAR(10 g) = 0.056 mW/g

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

Test Date = 10/20/06

Ambient Temperature = 24.7 degree C.

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



Z-axis scan at max SAR location

Caplio 500SE-W / Head / Right Side / 2412MHz / 11b DBPSK(1Mbps)

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

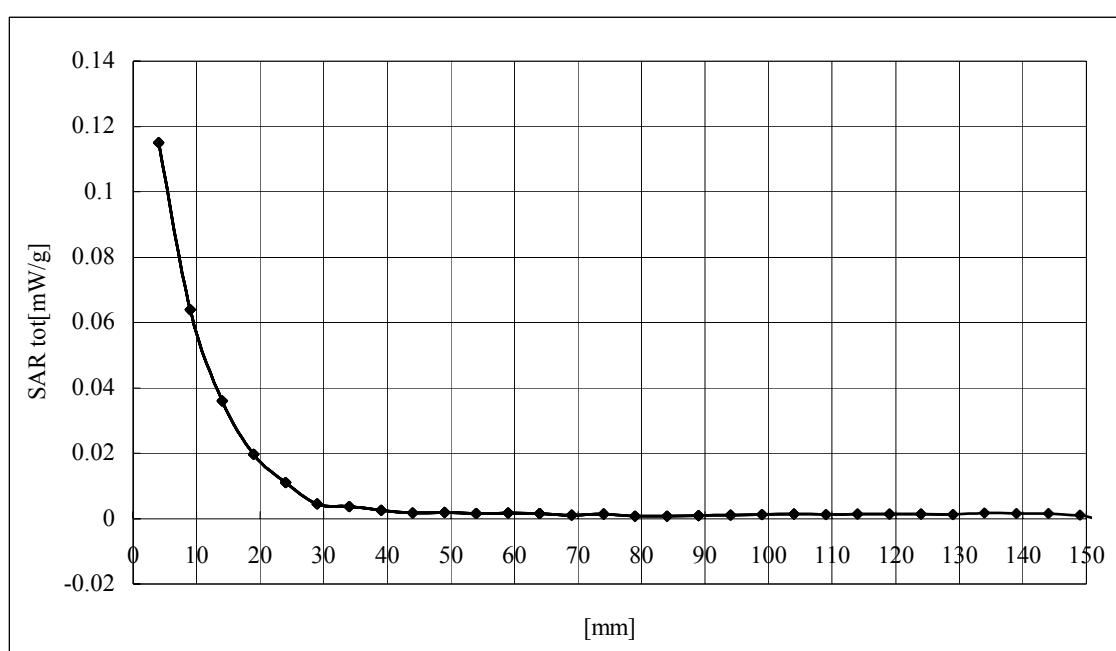
Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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



Caplio 500SE-W / Head / Right Side / 2462MHz / 11b DBPSK(1Mbps)

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (81x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.085 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.56 V/m; Power Drift = -0.214 dB

Peak SAR (extrapolated) = 0.111 W/kg

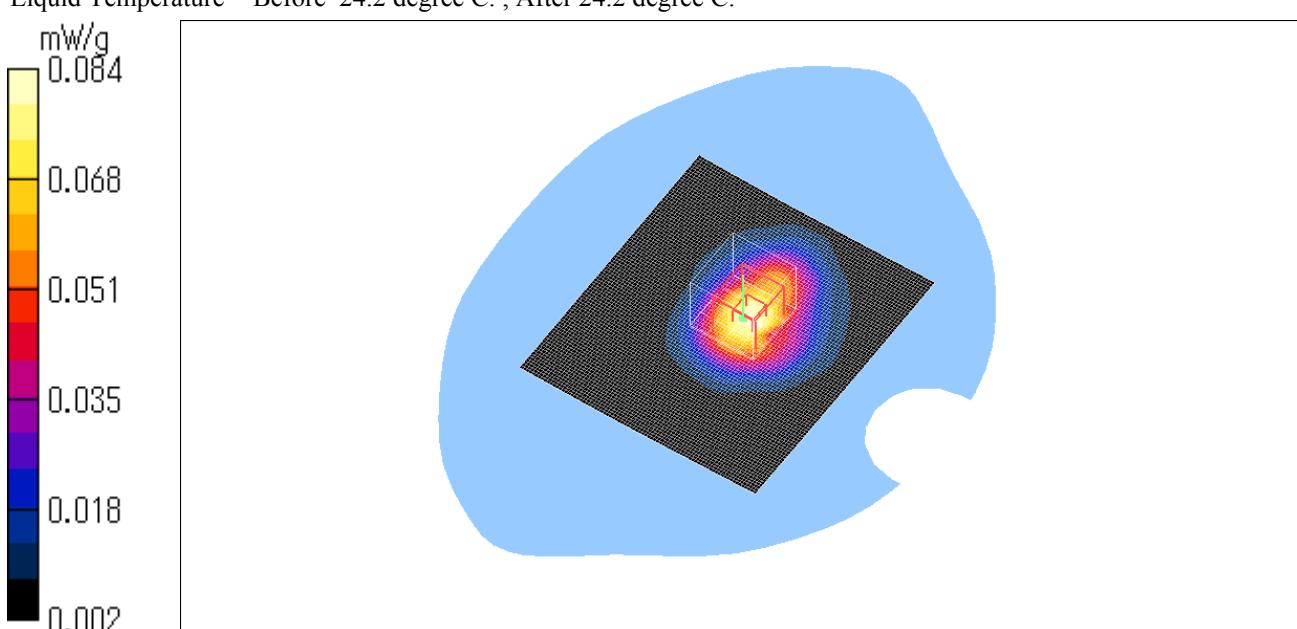
SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.034 mW/g

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

Test Date = 10/20/06

Ambient Temperature = 24.7 degree C.

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



Caplio 500SE-W / Head / Right Side / 2412MHz / 11g BPSK(9Mbps)

Crest Factor: 3.6

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (81x91x1): Measurement grid: dx=15mm, dy=15mm

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

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.74 V/m; Power Drift = 0.246 dB

Peak SAR (extrapolated) = 0.019 W/kg

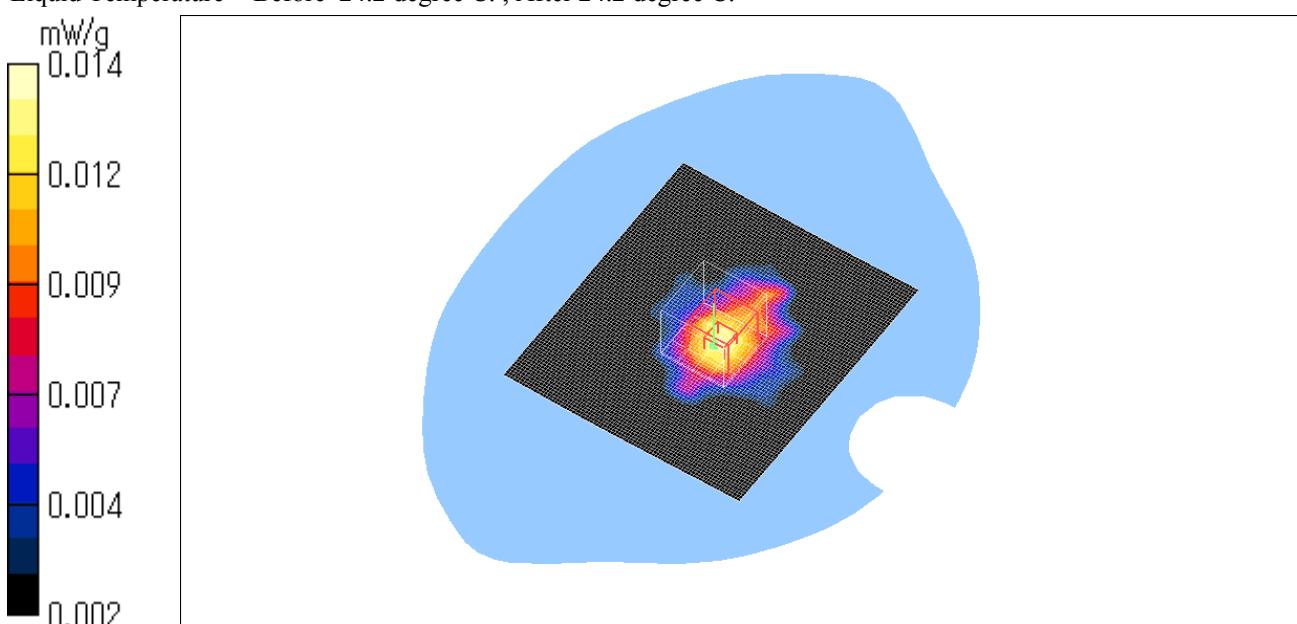
SAR(1 g) = 0.010 mW/g; SAR(10 g) = 0.00599 mW/g

Maximum value of SAR (measured) = 0.014 mW/g

Test Date = 10/20/06

Ambient Temperature = 24.7 degree C.

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



Caplio 500SE-W / Head / Right Side / 2437MHz / 11g BPSK(9Mbps)

Crest Factor: 3.6

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (81x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.010 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.24 V/m; Power Drift = 0.232 dB

Peak SAR (extrapolated) = 0.016 W/kg

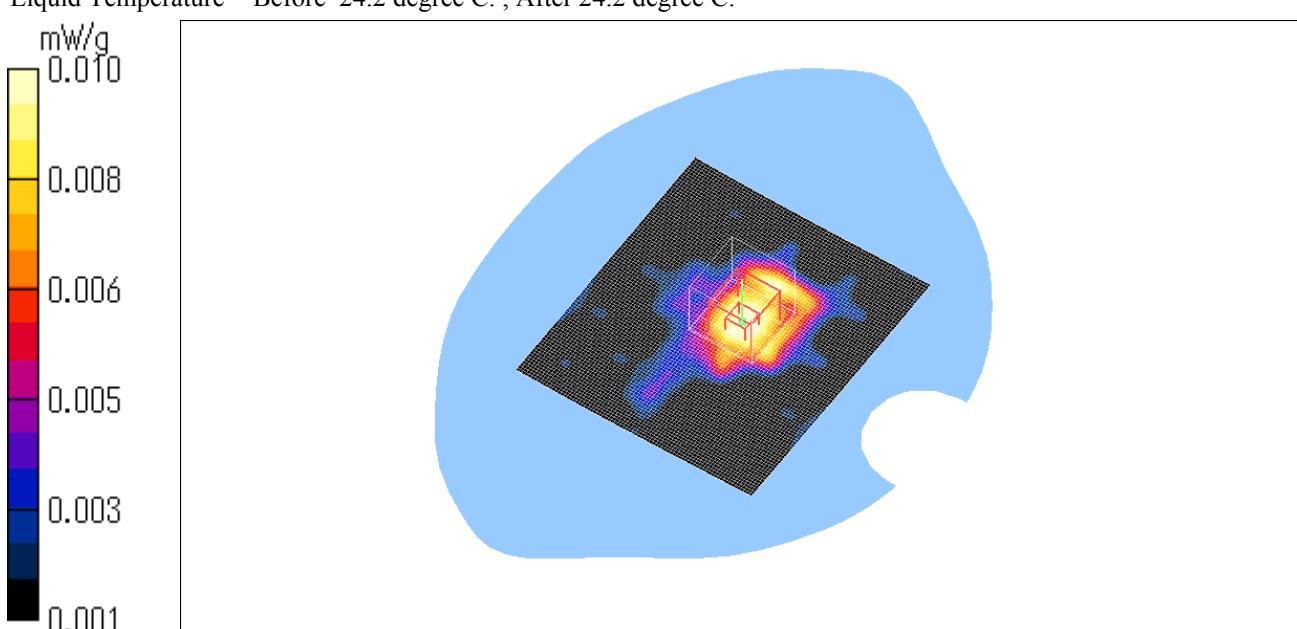
SAR(1 g) = 0.00779 mW/g; SAR(10 g) = 0.00493 mW/g

Maximum value of SAR (measured) = 0.010 mW/g

Test Date = 10/20/06

Ambient Temperature = 24.7 degree C.

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



Caplio 500SE-W / Head / Right Side / 2462MHz / 11g BPSK(9Mbps)

Crest Factor: 3.6

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (81x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.009 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.08 V/m; Power Drift = 0.174 dB

Peak SAR (extrapolated) = 0.013 W/kg

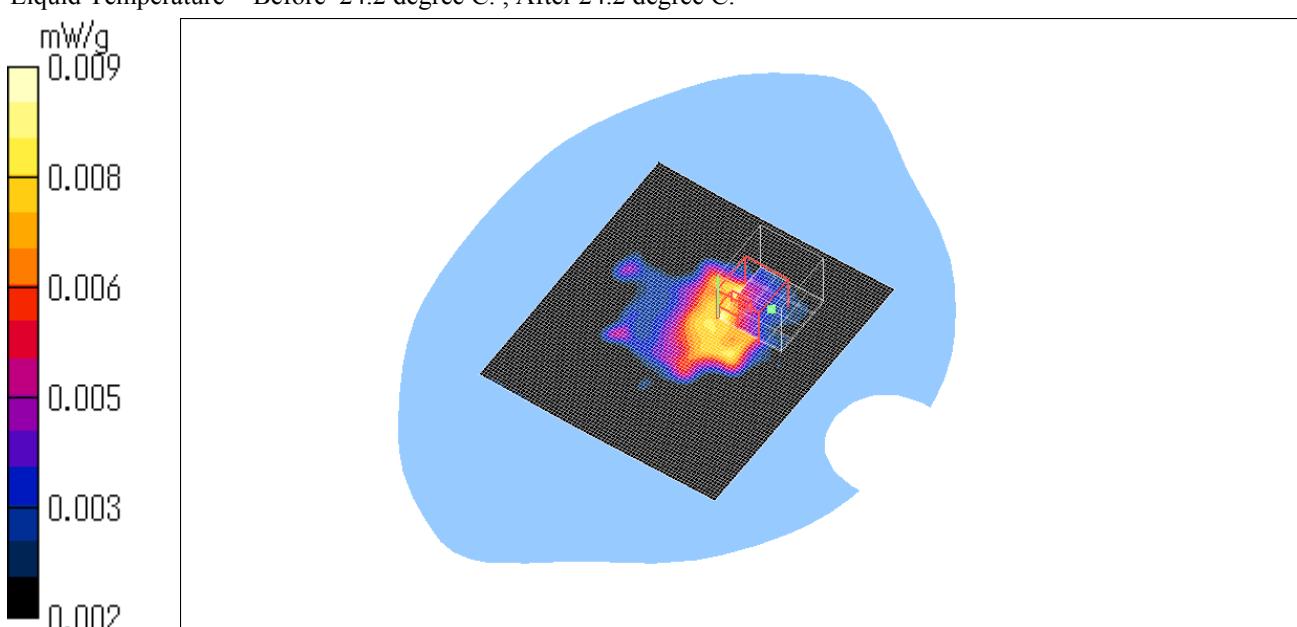
SAR(1 g) = 0.00485 mW/g; SAR(10 g) = 0.00296 mW/g

Maximum value of SAR (measured) = 0.009 mW/g

Test Date = 10/20/06

Ambient Temperature = 24.7 degree C.

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



Caplio 500SE-W / Head / Back / 2412MHz / 11b DBPSK(1Mbps)

Crest Factor: 1.1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: EX3DV3 - SN3507; ConvF(8.26, 8.26, 8.26); Calibrated: 2006/05/26

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2006/06/15

Phantom: SAM 1196

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

Area Scan (81x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.083 mW/g

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.90 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 0.111 W/kg

SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.030 mW/g

Maximum value of SAR (measured) = 0.078 mW/g

Test Date = 10/20/06

Ambient Temperature = 24.7 degree C.

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

