

## **APPENDIX 2 : SAR Measurement data**

---

**P1510 / Body / Main Front / 11b 2437MHz / CCK(11Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DAS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.052 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $5.08 \text{ V/m}$ ; Power Drift =  $-0.284 \text{ dB}$

Peak SAR (extrapolated) =  $0.204 \text{ W/kg}$

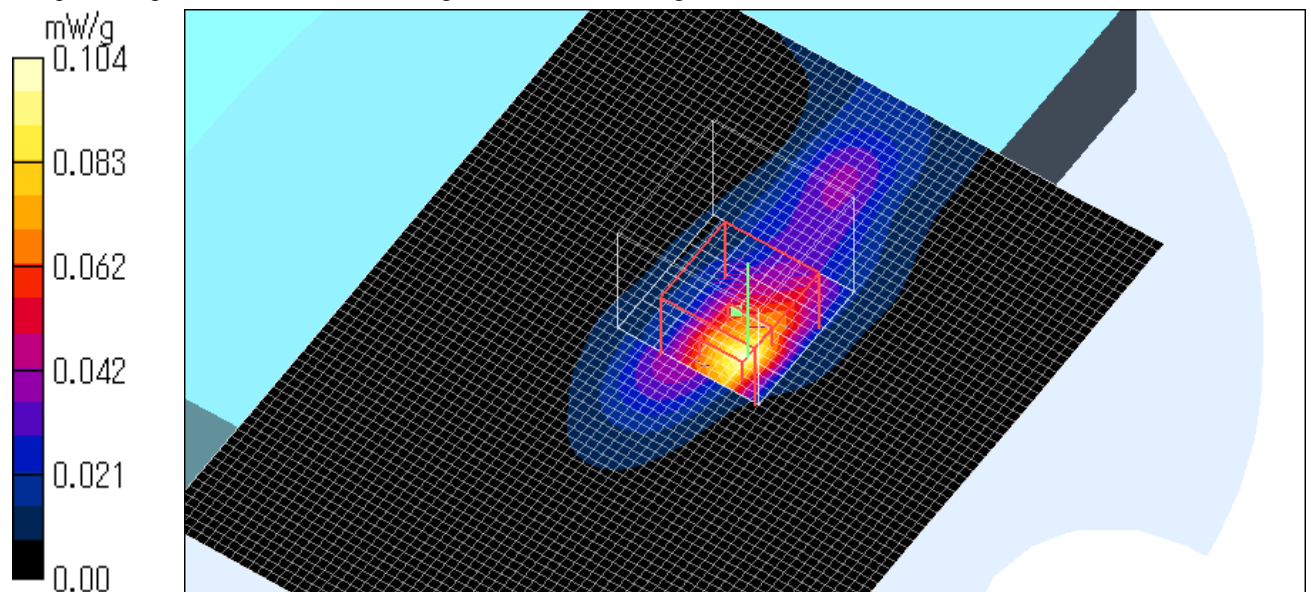
**SAR(1 g) =  $0.086 \text{ mW/g}$ ; SAR(10 g) =  $0.034 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.104 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $24.7^\circ\text{C}$ .

Liquid Temperature = Before  $23.4^\circ\text{C}$  , After  $23.4^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**P1510 / Body / Main Back / 11b 2437MHz / CCK(11Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.012 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $1.56 \text{ V/m}$ ; Power Drift =  $-0.261 \text{ dB}$

Peak SAR (extrapolated) =  $0.021 \text{ W/kg}$

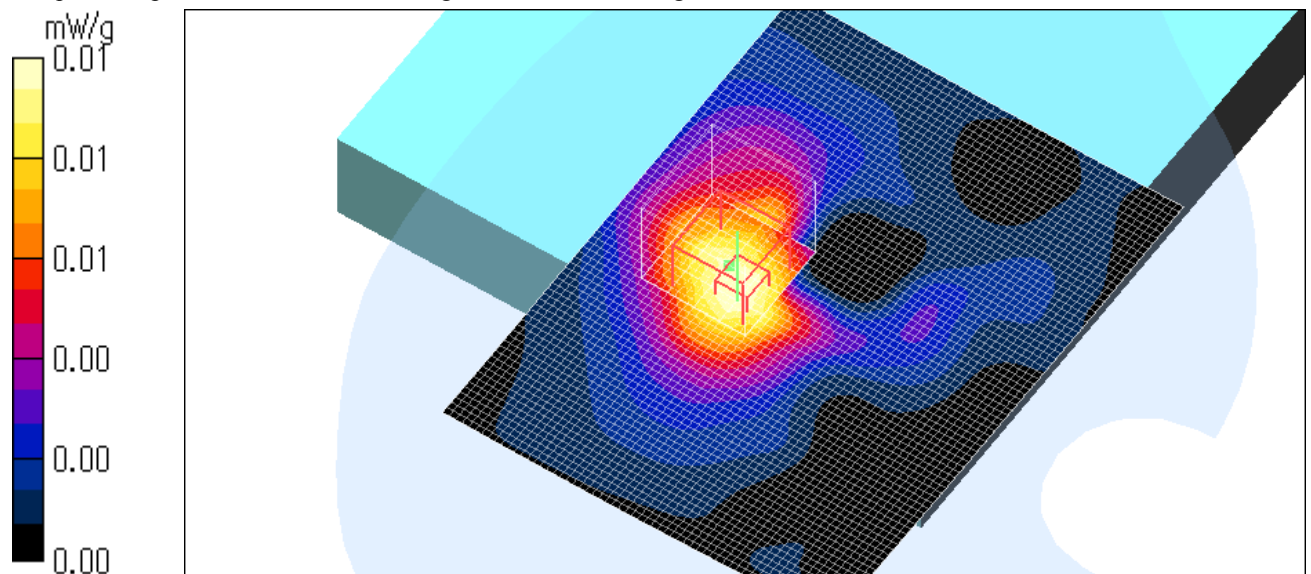
**SAR(1 g) =  $0.00962 \text{ mW/g}$ ; SAR(10 g) =  $0.00553 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.010 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $24.7^\circ\text{C}$ .

Liquid Temperature = Before  $23.5^\circ\text{C}$ . , After  $23.5^\circ\text{C}$ .



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Bottom / 11b 2437MHz/ CCK(11Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.00 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $1.28 \text{ V/m}$ ; Power Drift =  $-0.256 \text{ dB}$

Peak SAR (extrapolated) =  $0.01 \text{ W/kg}$

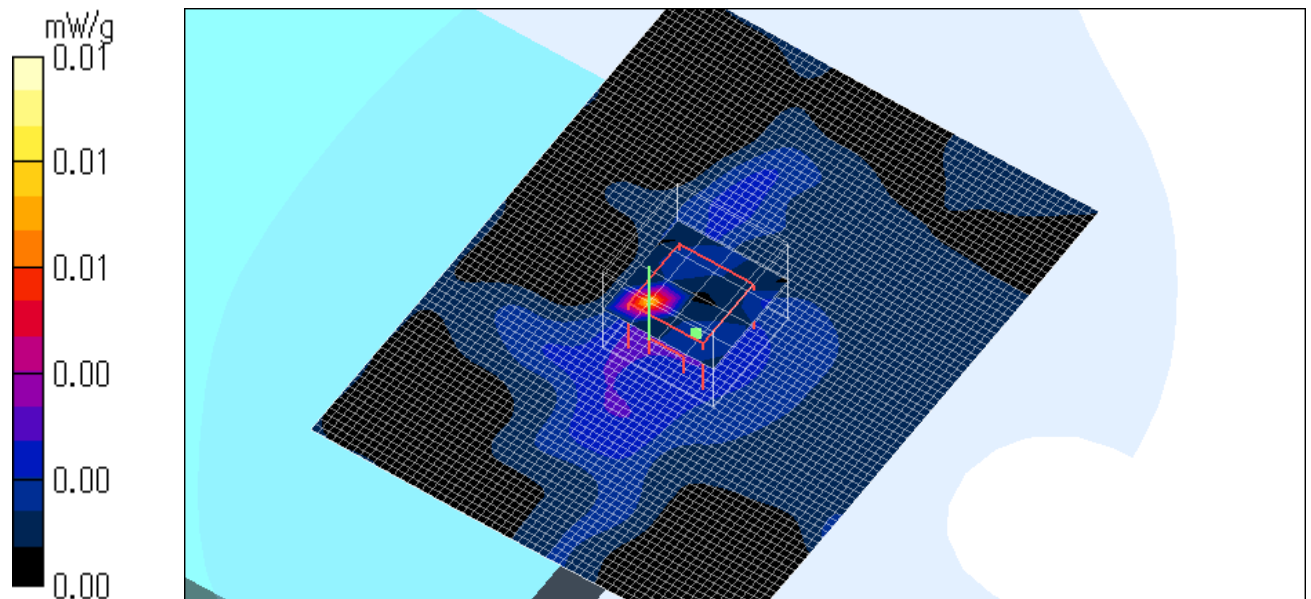
**SAR(1 g) =  $0.00309 \text{ mW/g}$ ; SAR(10 g) =  $0.00192 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.01 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $24.7^\circ\text{C}$ .

Liquid Temperature = Before  $23.5^\circ\text{C}$ . , After  $23.5^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main side / 11b 2437MHz / CCK(11Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.235 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $10.3 \text{ V/m}$ ; Power Drift =  $-0.161 \text{ dB}$

Peak SAR (extrapolated) =  $0.528 \text{ W/kg}$

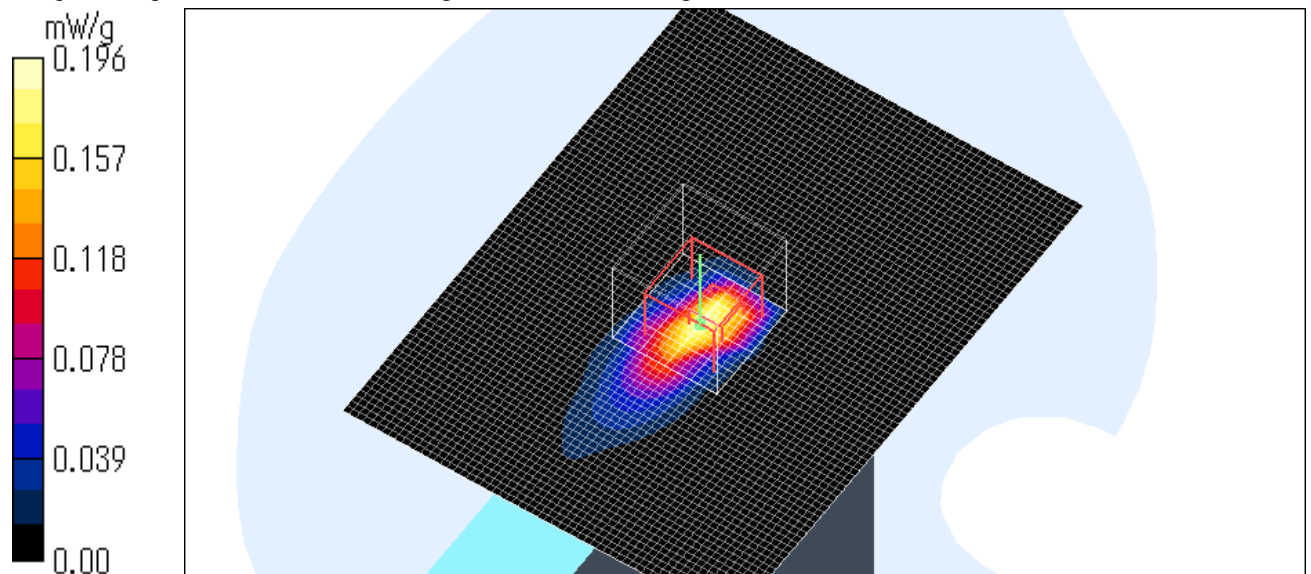
**SAR(1 g) =  $0.182 \text{ mW/g}$ ; SAR(10 g) =  $0.071 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.196 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $24.7^\circ\text{C}$ .

Liquid Temperature = Before  $23.7^\circ\text{C}$ . , After  $23.7^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**Z-axis at maximum SAR location****P1510 / Body / Main side / 11.b 2437MHz / CCK(11Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

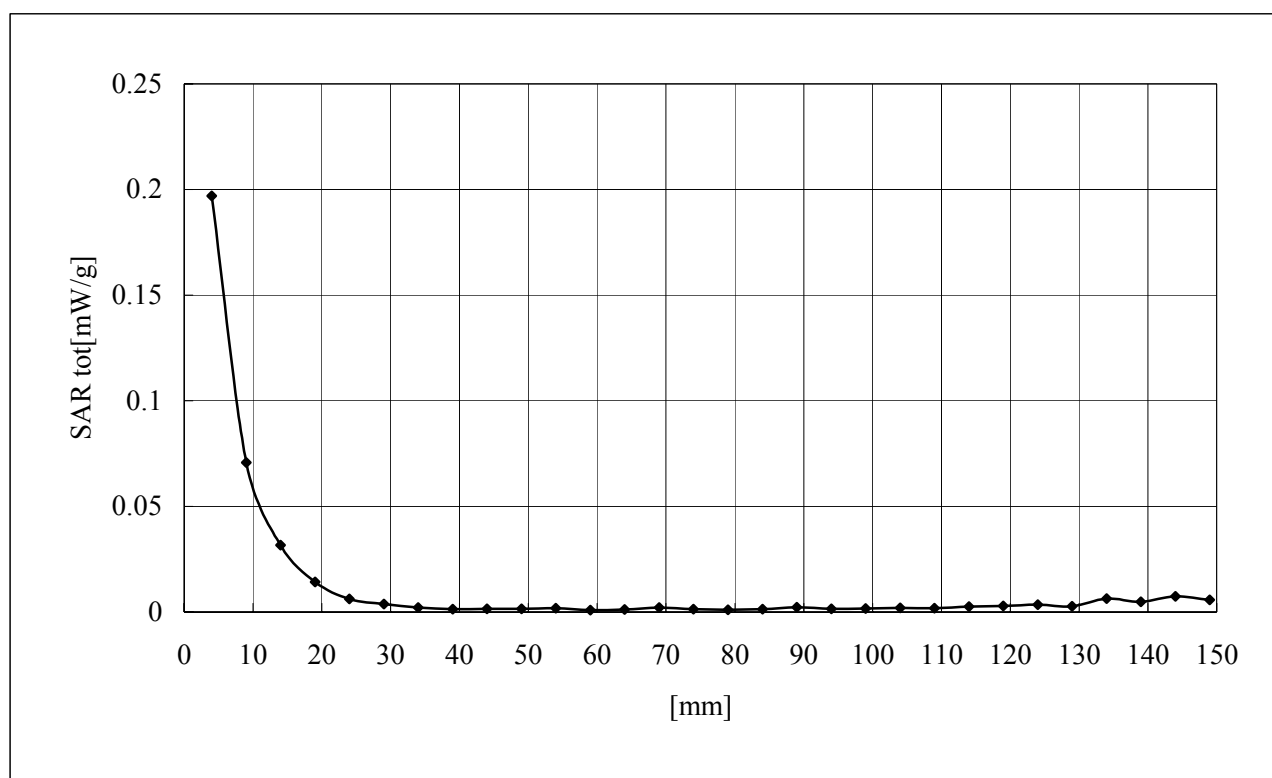
Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DAS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

**UL Apex Co., Ltd.****Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Side / 11b 2437MHz/ CCK(11Mbps) / Option Battery**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DAS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.219 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $10.1 \text{ V/m}$ ; Power Drift =  $-0.112 \text{ dB}$

Peak SAR (extrapolated) =  $0.476 \text{ W/kg}$

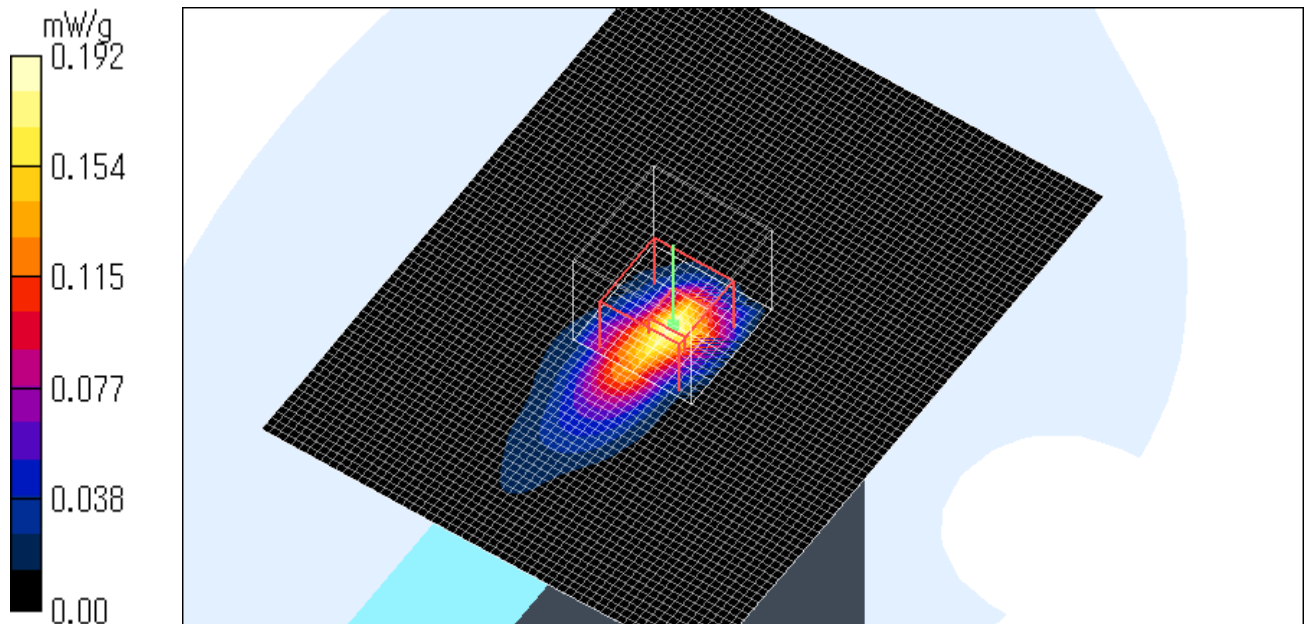
**SAR(1 g) =  $0.170 \text{ mW/g}$ ; SAR(10 g) =  $0.067 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.192 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $24.7^\circ\text{C}$ .

Liquid Temperature = Before  $23.6^\circ\text{C}$ . , After  $23.6^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Side / 11b 2412MHz/ CCK(11Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.213 mW/g

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

Reference Value = 10.2 V/m; Power Drift = -0.112 dB

Peak SAR (extrapolated) = 0.497 W/kg

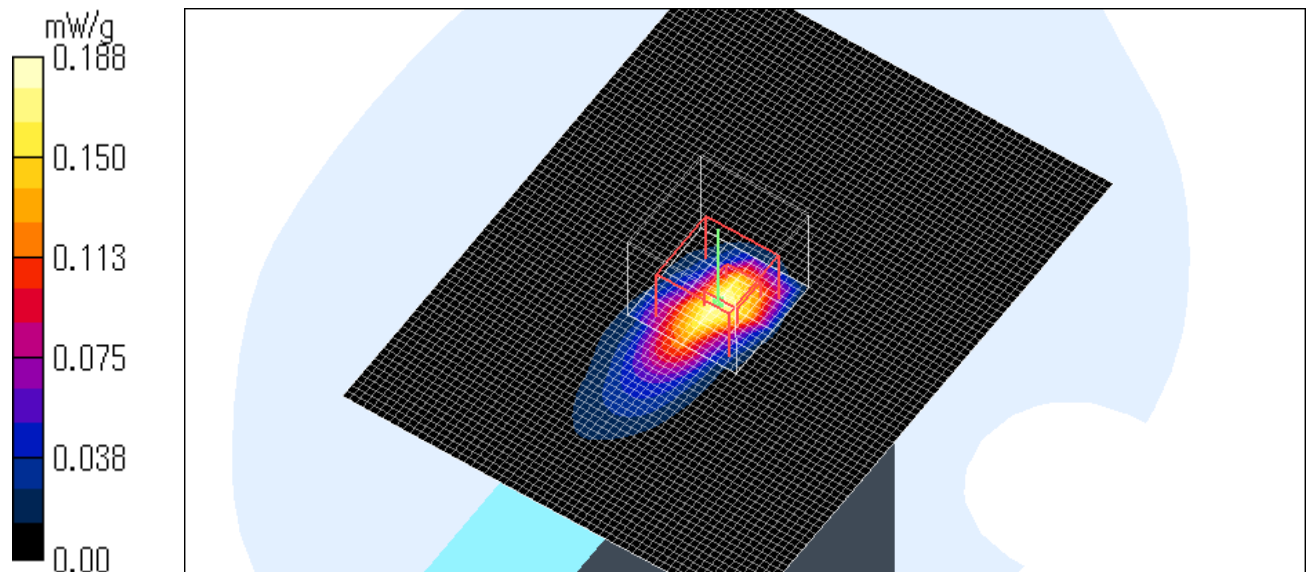
**SAR(1 g) = 0.176 mW/g; SAR(10 g) = 0.069 mW/g**

Maximum value of SAR (measured) = 0.188 mW/g

Test Date = 05/02/05

Ambient Temperature = 24.7degree.C.

Liquid Temperature = Before 23.7 degree.C. , After 23.7 degree.C.



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Side / 11b 2462MHz / CCK(11Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.217 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $10.2 \text{ V/m}$ ; Power Drift =  $-0.060 \text{ dB}$

Peak SAR (extrapolated) =  $0.531 \text{ W/kg}$

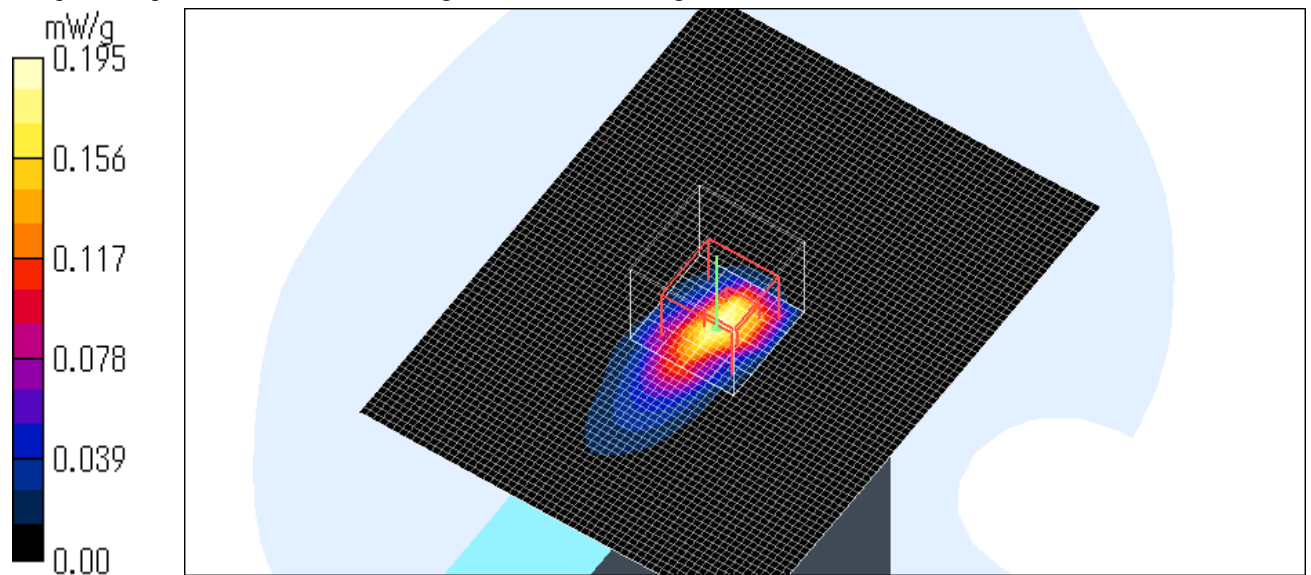
**SAR(1 g) =  $0.181 \text{ mW/g}$ ; SAR(10 g) =  $0.069 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.195 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $24.7^\circ\text{C}$ .

Liquid Temperature = Before  $23.7^\circ\text{C}$ . , After  $23.7^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Side / 11g 2437MHz / BPSK(9Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.097 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $5.55 \text{ V/m}$ ; Power Drift =  $-0.193 \text{ dB}$

Peak SAR (extrapolated) =  $0.303 \text{ W/kg}$

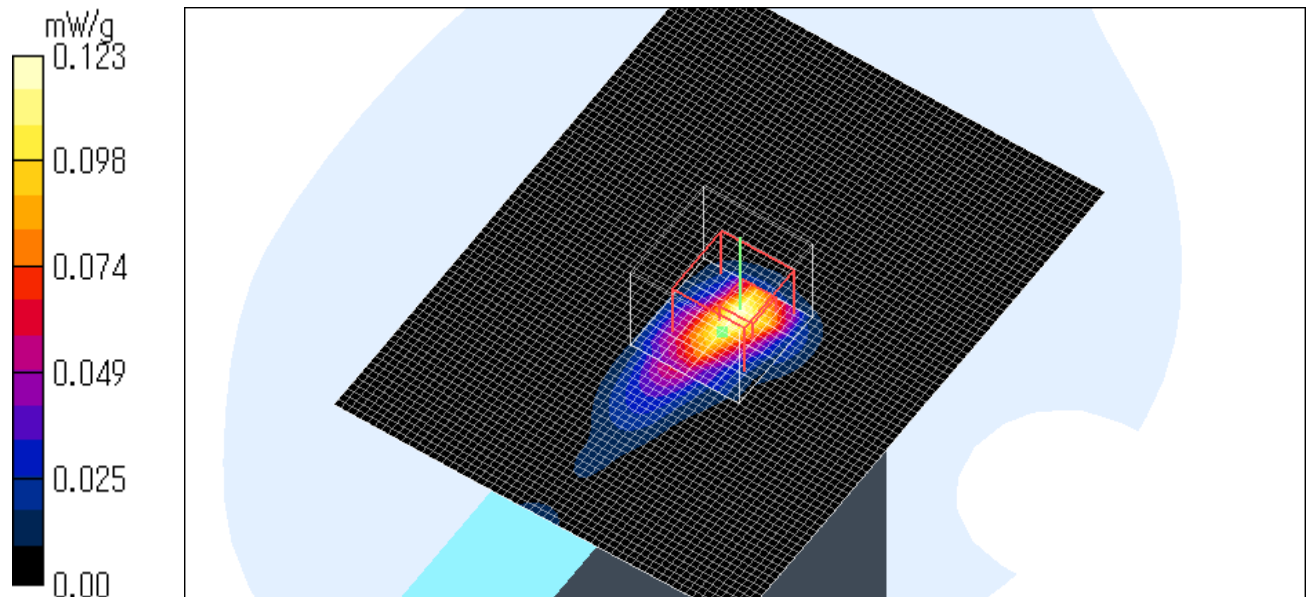
**SAR(1 g) =  $0.111 \text{ mW/g}$ ; SAR(10 g) =  $0.044 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.123 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $24.7^\circ\text{C}$ .

Liquid Temperature = Before  $23.7^\circ\text{C}$  , After  $23.8^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Side / 11g 2437MHz /QPSK(12Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DAS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.096 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $5.48 \text{ V/m}$ ; Power Drift =  $0.023 \text{ dB}$

Peak SAR (extrapolated) =  $0.302 \text{ W/kg}$

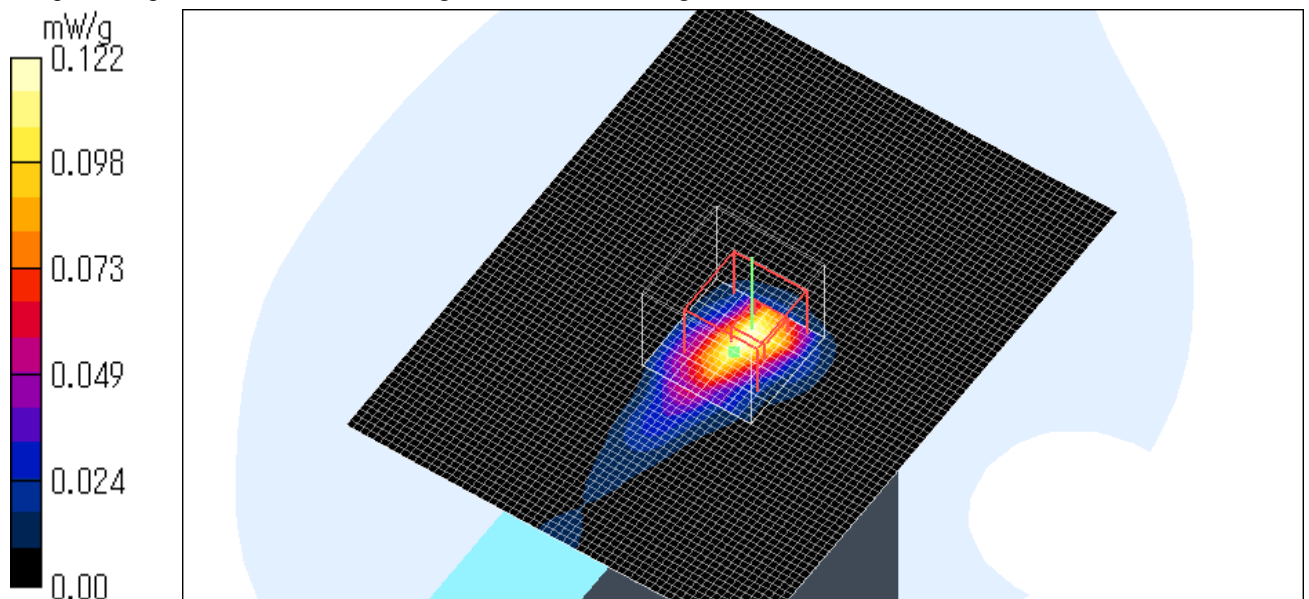
**SAR(1 g) =  $0.112 \text{ mW/g}$ ; SAR(10 g) =  $0.044 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.122 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $24.7^\circ\text{C}$ .

Liquid Temperature = Before  $23.8^\circ\text{C}$ . , After  $23.8^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Side / 11g 2437MHz /16QAM(36Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.098 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 5.40 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 0.302 W/kg

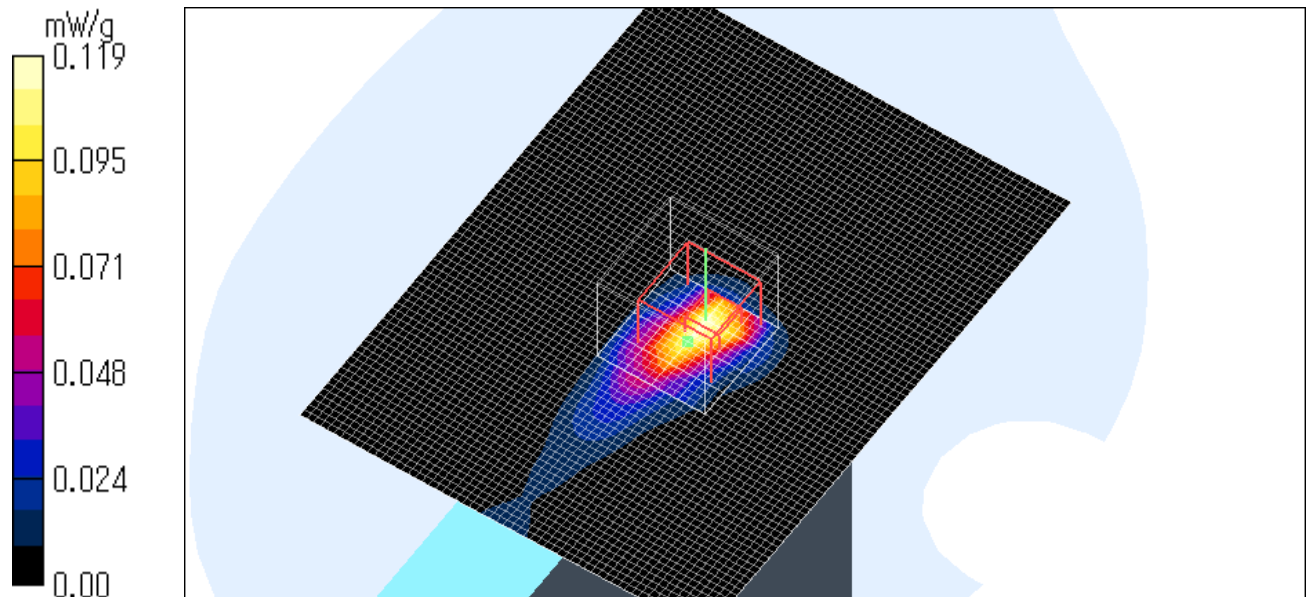
**SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.043 mW/g**

Maximum value of SAR (measured) = 0.119 mW/g

Test Date = 05/02/05

Ambient Temperature = 24.7degree.C.

Liquid Temperature = Before 23.8 degree.C. , After 23.7 degree.C.



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Side / 11g 2437MHz /64QAM(54Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DAS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) = 0.089 mW/g

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 5.43 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 0.303 W/kg

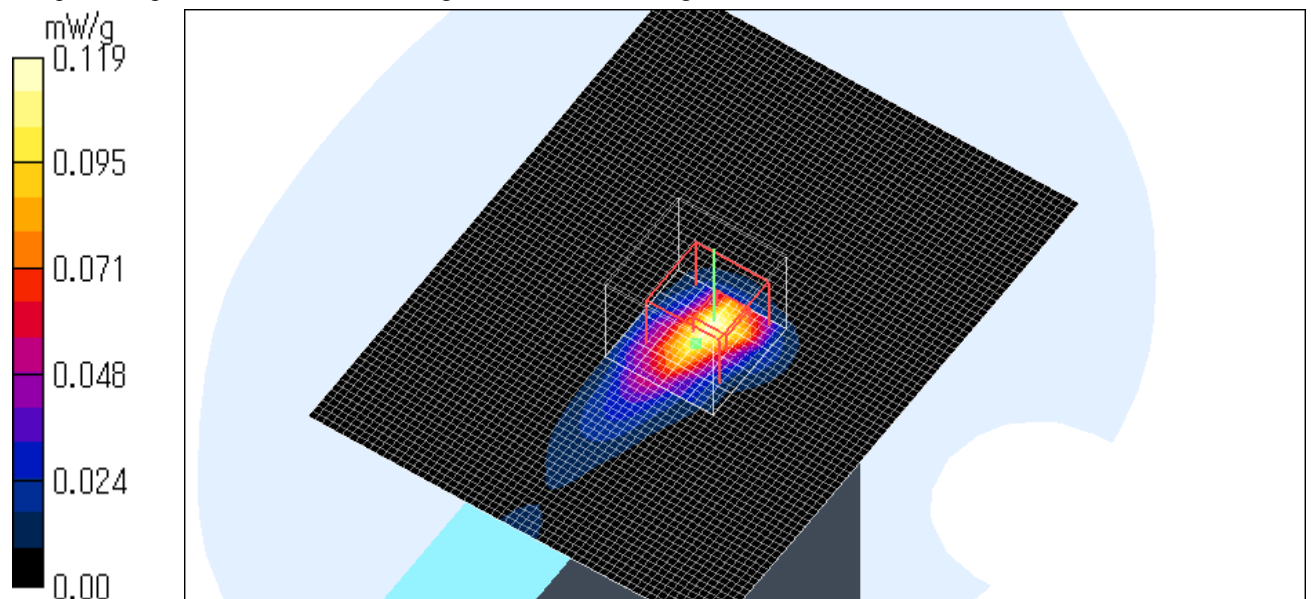
**SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.043 mW/g**

Maximum value of SAR (measured) = 0.119 mW/g

Test Date = 05/02/05

Ambient Temperature = 24.7degree.C.

Liquid Temperature = Before 23.7 degree.C. , After 23.6 degree.C.



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Front / 11g 2437MHz / QPSK(12Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.055 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $3.62 \text{ V/m}$ ; Power Drift =  $-0.318 \text{ dB}$

Peak SAR (extrapolated) =  $0.161 \text{ W/kg}$

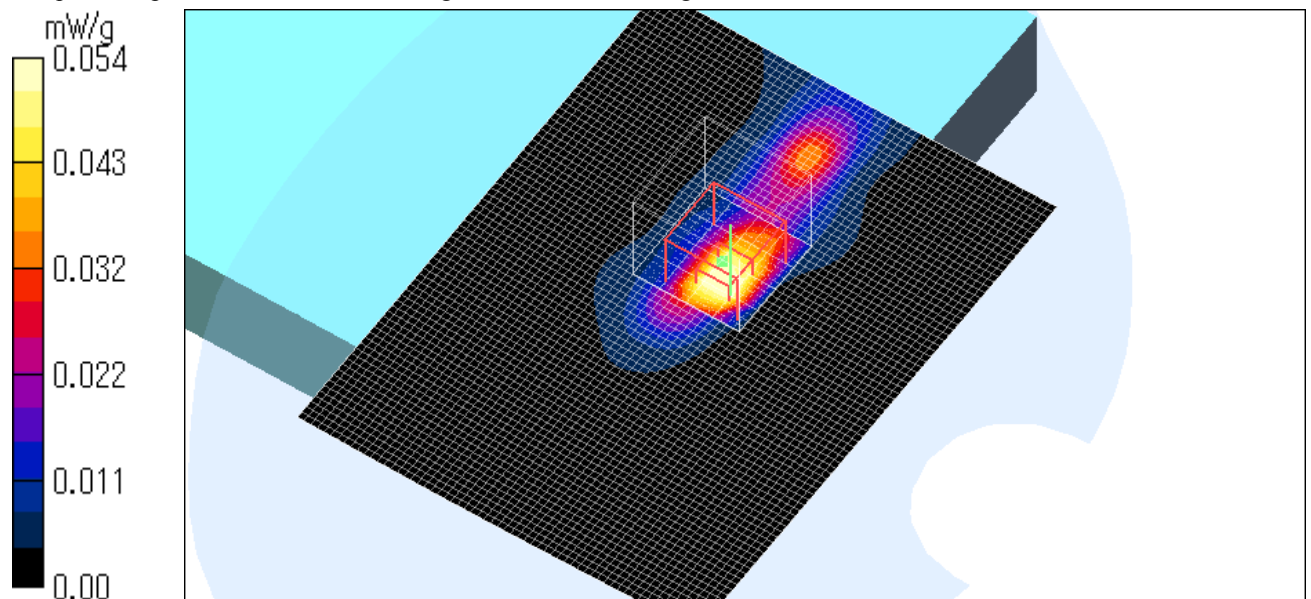
**SAR(1 g) =  $0.058 \text{ mW/g}$ ; SAR(10 g) =  $0.022 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.054 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $24.7^\circ\text{C}$ .

Liquid Temperature = Before  $23.6^\circ\text{C}$ . , After  $23.6^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Back / 11g 2437MHz QPSK(12Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.01 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $1.32 \text{ V/m}$ ; Power Drift =  $-0.153 \text{ dB}$

Peak SAR (extrapolated) =  $0.025 \text{ W/kg}$

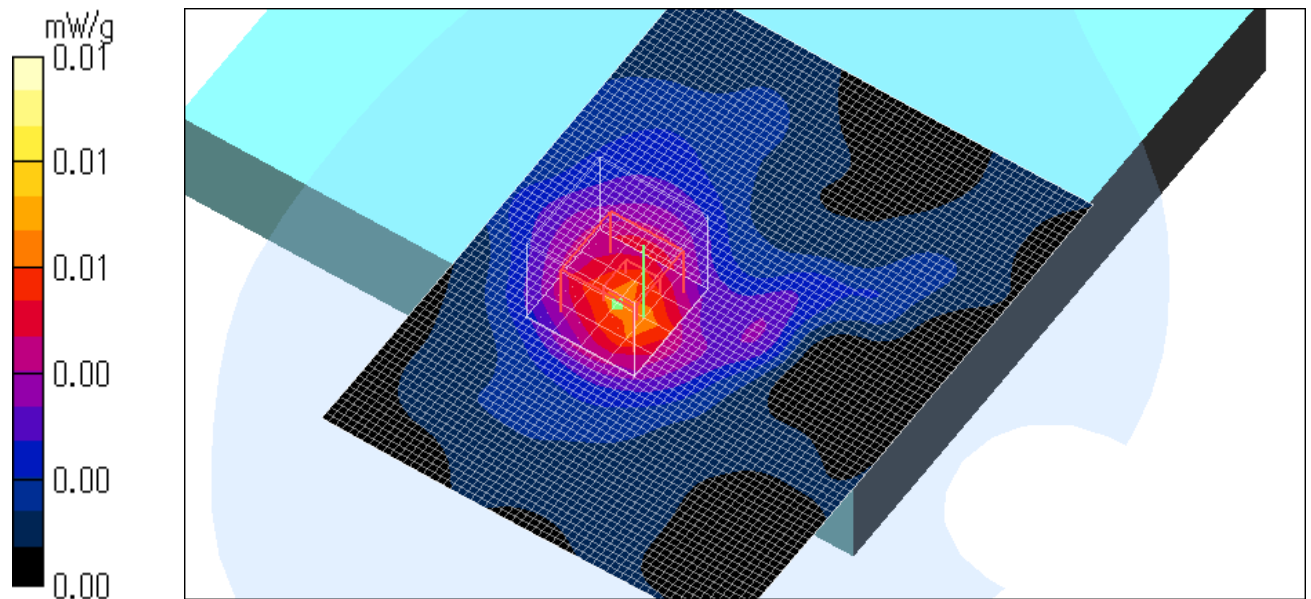
**SAR(1 g) =  $0.00619 \text{ mW/g}$ ; SAR(10 g) =  $0.00217 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.01 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $24.7^\circ\text{C}$ .

Liquid Temperature = Before  $23.6^\circ\text{C}$ . , After  $23.5^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Bottom / 11g 2437MHz / QPSK(12Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.00 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $0.777 \text{ V/m}$ ; Power Drift =  $0.286 \text{ dB}$

Peak SAR (extrapolated) =  $0.01 \text{ W/kg}$

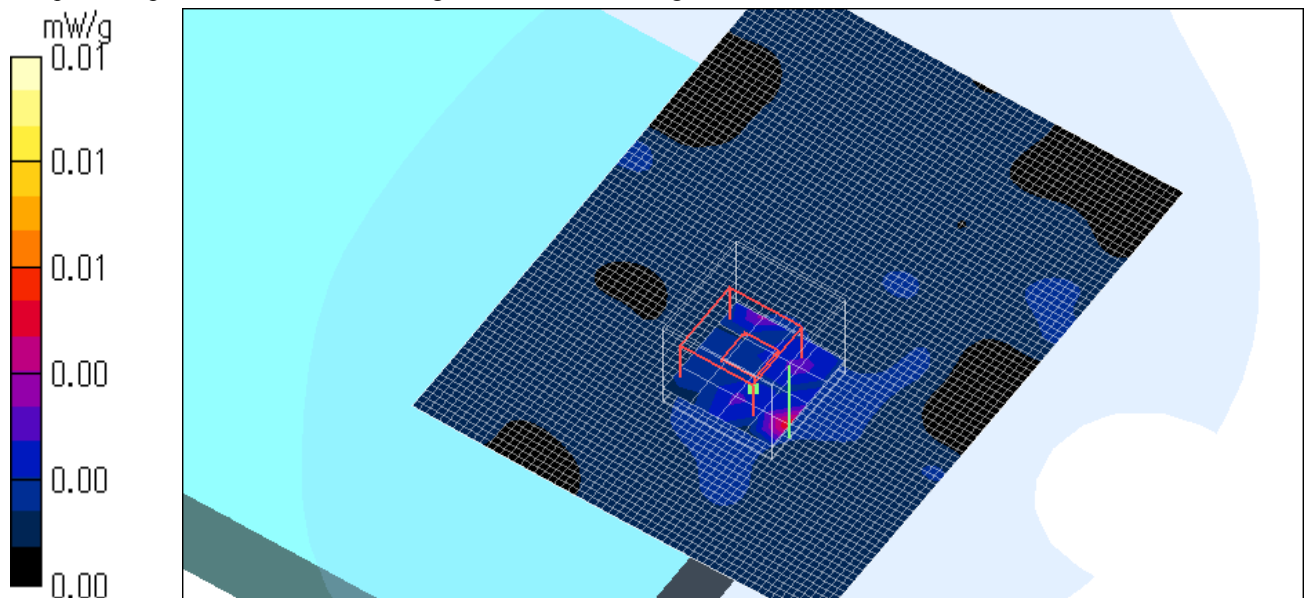
**SAR(1 g) =  $0.00221 \text{ mW/g}$ ; SAR(10 g) =  $0.0012 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.01 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $24.7^\circ\text{C}$ .

Liquid Temperature = Before  $23.7^\circ\text{C}$ . , After  $23.7^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Side / 11g 2412MHz / QPSK(12Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.131 mW/g

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

Reference Value = 8.08 V/m; Power Drift = -0.263 dB

Peak SAR (extrapolated) = 0.317 W/kg

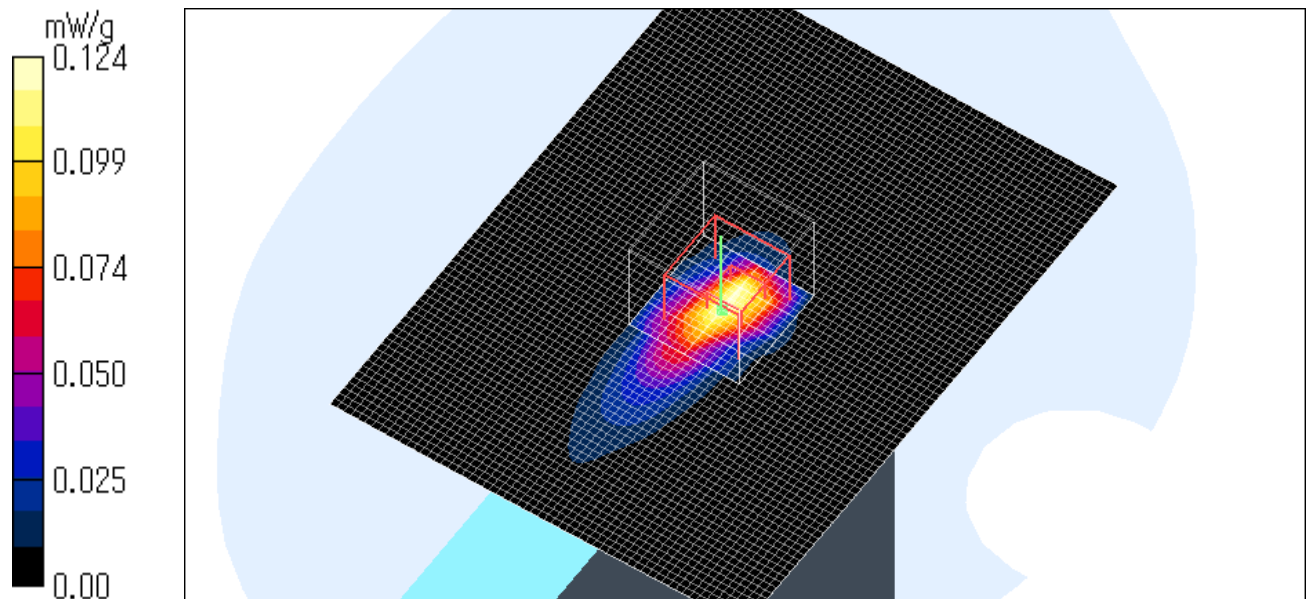
**SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.044 mW/g**

Maximum value of SAR (measured) = 0.124 mW/g

Test Date = 05/02/05

Ambient Temperature = 24.7degree.C.

Liquid Temperature = Before 23.6 degree.C. , After 23.6 degree.C.



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Main Side / 11g 2462MHz / QPSK(12Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.96 \text{ mho/m}$ ;  $\epsilon_r = 50.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.081 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $6.33 \text{ V/m}$ ; Power Drift =  $-0.218 \text{ dB}$

Peak SAR (extrapolated) =  $0.190 \text{ W/kg}$

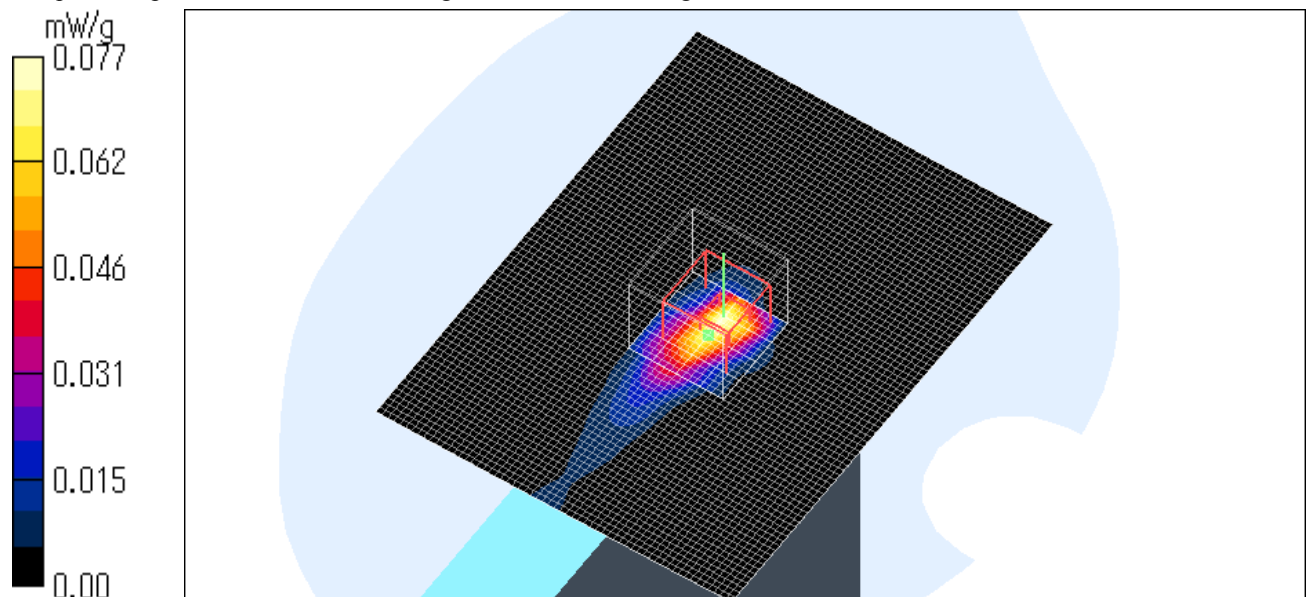
**SAR(1 g) =  $0.069 \text{ mW/g}$ ; SAR(10 g) =  $0.027 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.077 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $24.7^\circ\text{C}$ .

Liquid Temperature = Before  $23.5^\circ\text{C}$ . , After  $23.5^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Front / 11b 2437MHz /CCK (11Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.067 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $5.34 \text{ V/m}$ ; Power Drift =  $-0.274 \text{ dB}$

Peak SAR (extrapolated) =  $0.395 \text{ W/kg}$

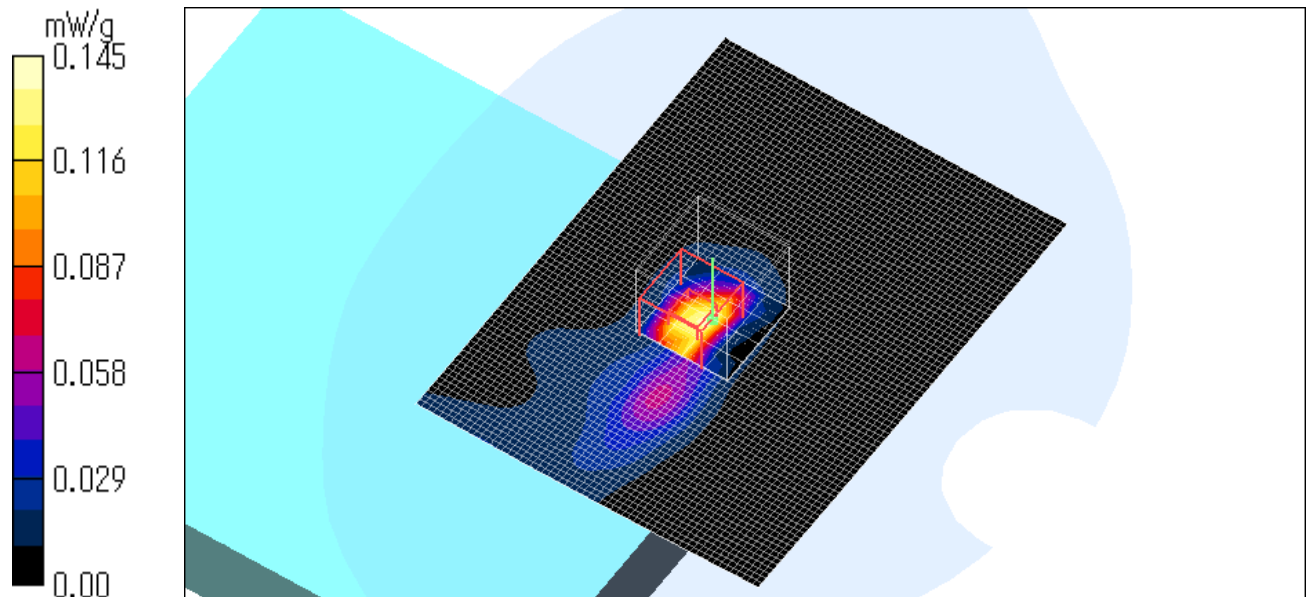
**SAR(1 g) =  $0.141 \text{ mW/g}$ ; SAR(10 g) =  $0.053 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.145 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0^\circ\text{C}$ .

Liquid Temperature = Before  $24.5^\circ\text{C}$ . , After  $24.5^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Back / 11b 2437MHz / CCK (11Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DAS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.01 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $1.40 \text{ V/m}$ ; Power Drift =  $-0.184 \text{ dB}$

Peak SAR (extrapolated) =  $0.038 \text{ W/kg}$

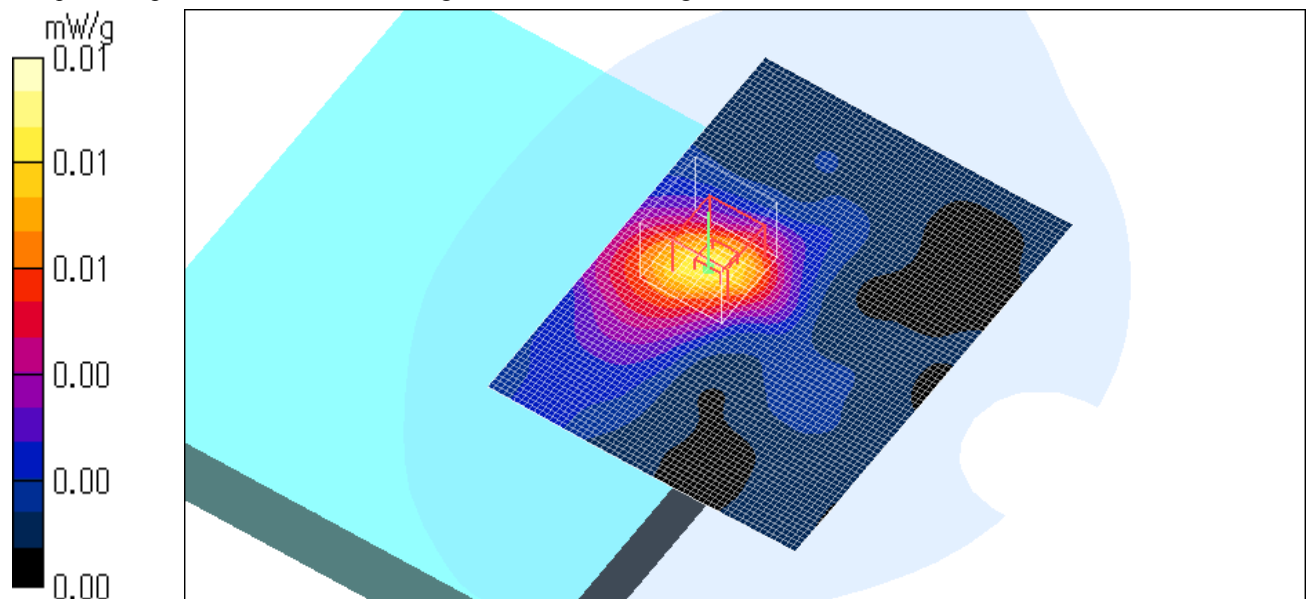
**SAR(1 g) =  $0.00914 \text{ mW/g}$ ; SAR(10 g) =  $0.00462 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.01 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0^\circ\text{C}$ .

Liquid Temperature = Before  $24.5^\circ\text{C}$ . , After  $24.5^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Bottom / 11b 2437MHz/ CCK (11Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DAS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.00 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $0.795 \text{ V/m}$ ; Power Drift =  $-0.213 \text{ dB}$

Peak SAR (extrapolated) =  $0.01 \text{ W/kg}$

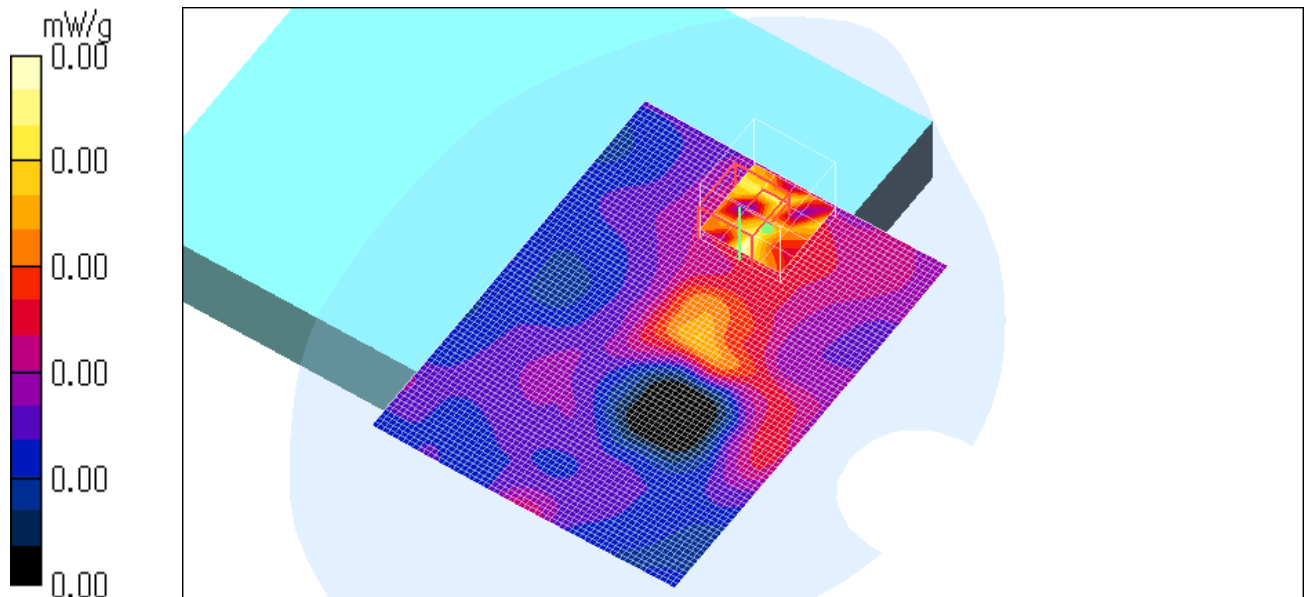
**SAR(1 g) =  $0.00184 \text{ mW/g}$ ; SAR(10 g) =  $0.00127 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.00 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0^\circ\text{C}$ .

Liquid Temperature = Before  $24.5^\circ\text{C}$  , After  $24.5^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

## P1510 / Body / Aux Side / 11b 2437MHz/ CCK (11Mbps)

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASy4 (High Precision Assessment)

DASy4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DASy4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.226 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $4.57 \text{ V/m}$ ; Power Drift =  $-0.199 \text{ dB}$

Peak SAR (extrapolated) =  $0.468 \text{ W/kg}$

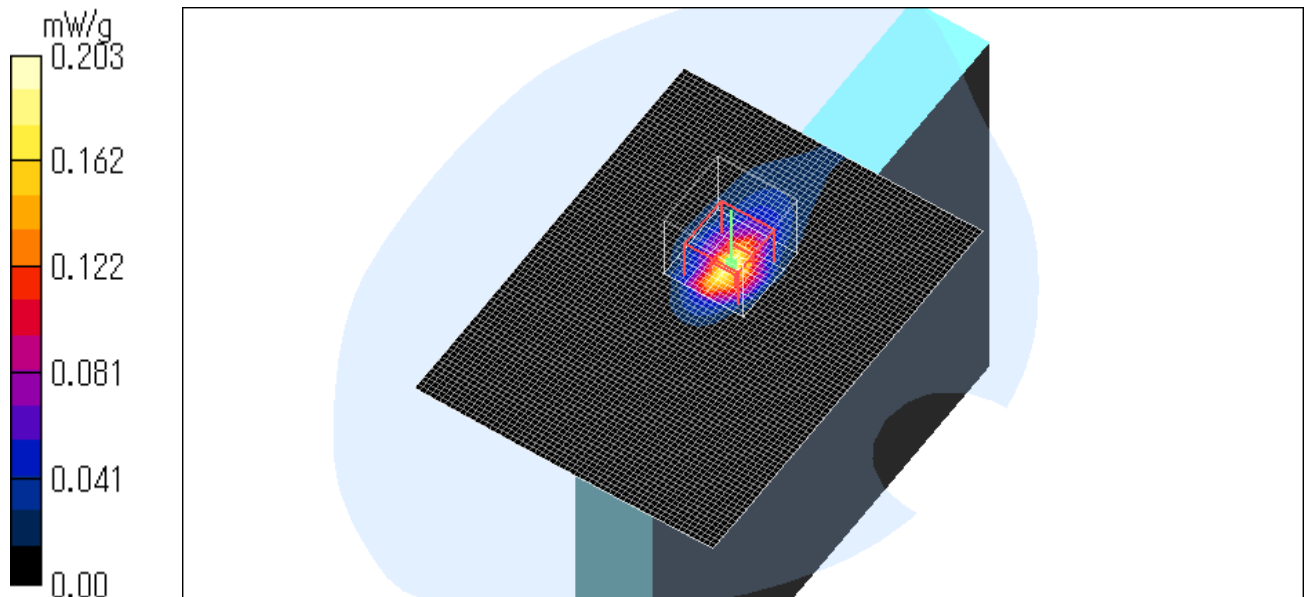
**SAR(1 g) =  $0.172 \text{ mW/g}$ ; SAR(10 g) =  $0.067 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.203 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0^\circ\text{C}$ .

Liquid Temperature = Before  $24.5^\circ\text{C}$  , After  $24.5^\circ\text{C}$ .



UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Side/ 11b 2412MHz / CCK (11Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 50.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.218 mW/g

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

Reference Value = 4.65 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.474 W/kg

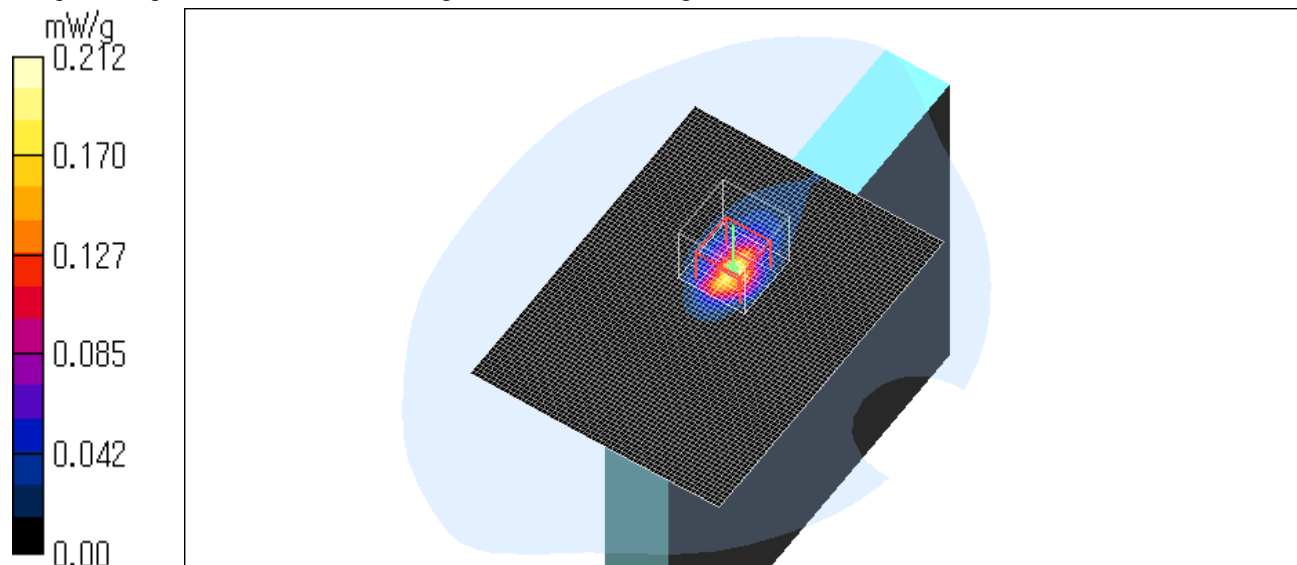
**SAR(1 g) = 0.176 mW/g; SAR(10 g) = 0.069 mW/g**

Maximum value of SAR (measured) = 0.212 mW/g

Test Date = 05/06/05

Ambient Temperature = 25.0degree.C.

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



---

**UL Apex Co., Ltd.****Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Side / 11b 2462MHz /CCK(11Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.234 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $4.44 \text{ V/m}$ ; Power Drift =  $-0.250 \text{ dB}$

Peak SAR (extrapolated) =  $0.485 \text{ W/kg}$

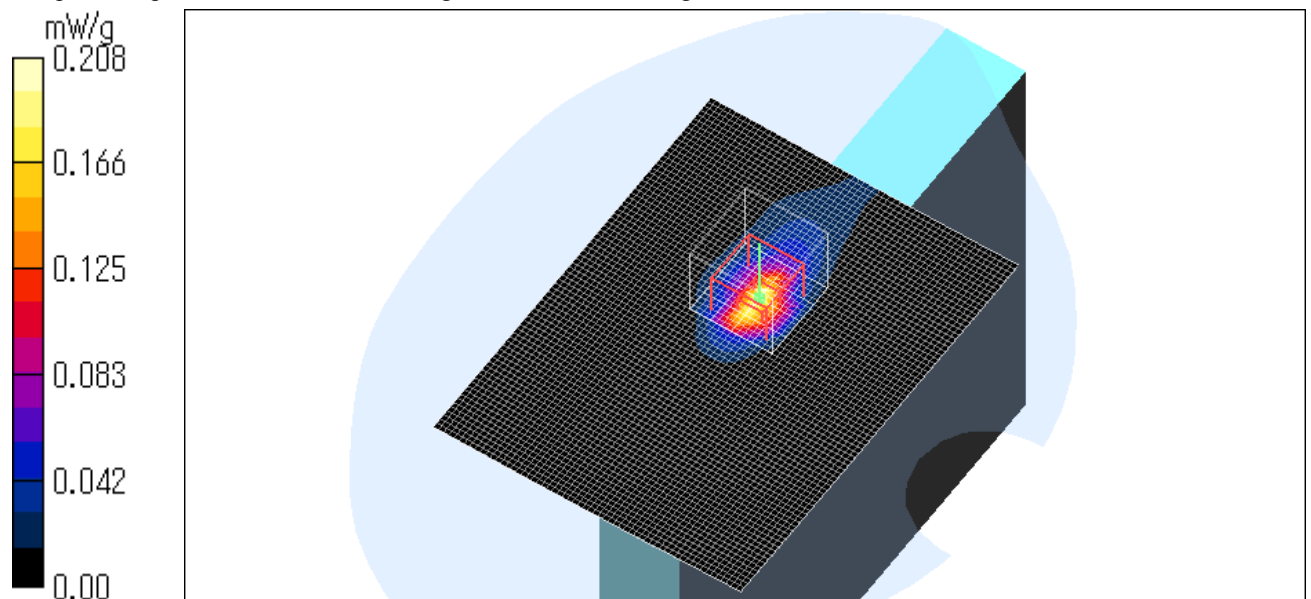
**SAR(1 g) =  $0.176 \text{ mW/g}$ ; SAR(10 g) =  $0.068 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.208 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0^\circ\text{C}$ .

Liquid Temperature = Before  $24.5^\circ\text{C}$ . , After  $24.5^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Side / 11g 2437MHz / BPSK (6Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.074 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $2.90 \text{ V/m}$ ; Power Drift =  $0.083 \text{ dB}$

Peak SAR (extrapolated) =  $0.203 \text{ W/kg}$

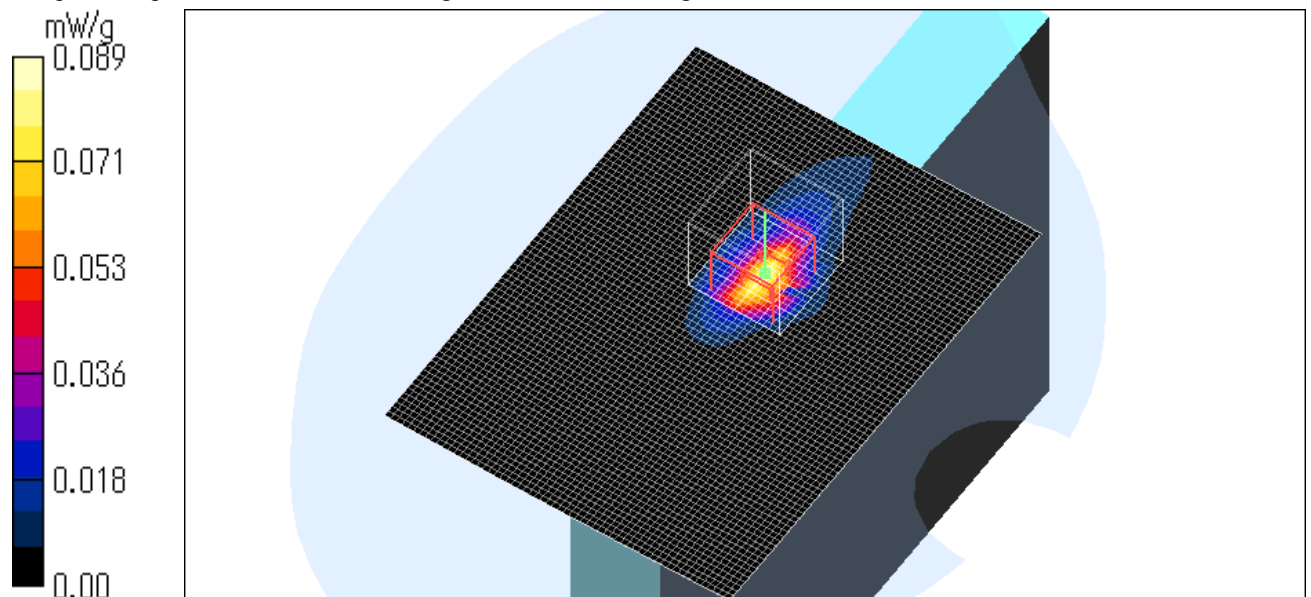
**SAR(1 g) =  $0.075 \text{ mW/g}$ ; SAR(10 g) =  $0.030 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.089 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0\text{degree.C.}$

Liquid Temperature = Before  $24.5 \text{ degree.C.}$  , After  $24.5 \text{ degree.C.}$



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

**P1510 / Body / Aux Side / 11g 2437MHz / QPSK(18Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DAS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.075 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $2.95 \text{ V/m}$ ; Power Drift =  $-0.280 \text{ dB}$

Peak SAR (extrapolated) =  $0.210 \text{ W/kg}$

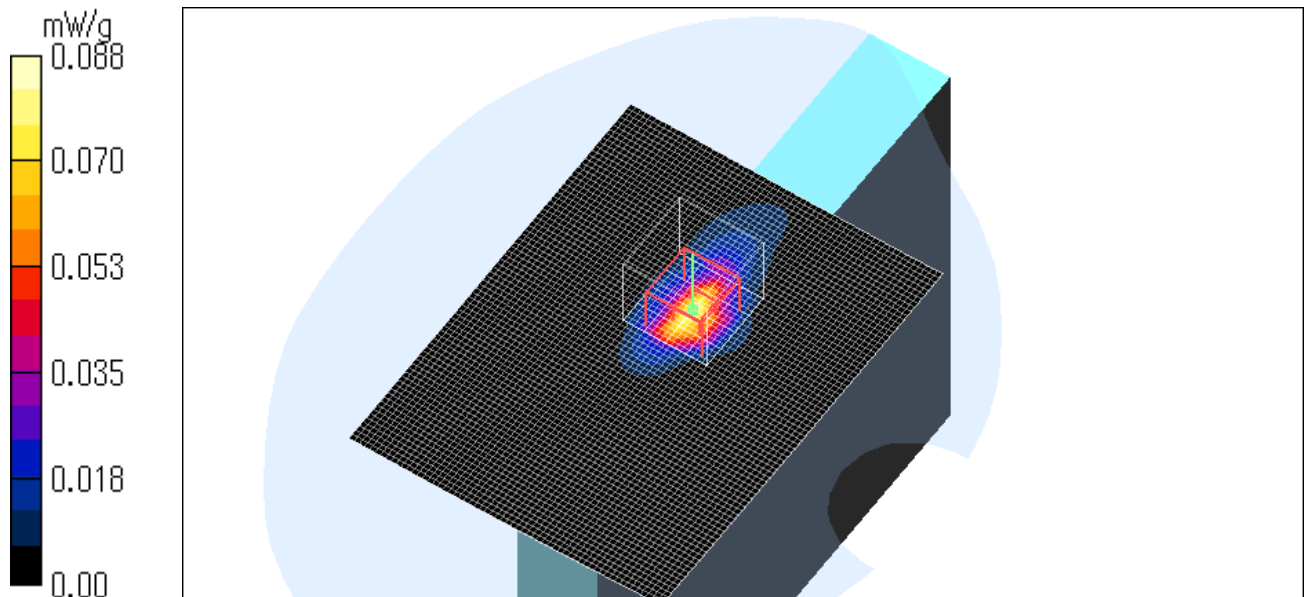
**SAR(1 g) =  $0.076 \text{ mW/g}$ ; SAR(10 g) =  $0.030 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.088 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0^\circ\text{C}$ .

Liquid Temperature = Before  $24.5^\circ\text{C}$ . , After  $24.5^\circ\text{C}$ .



**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Front / 11g 2437MHz /16QAM (36Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.072 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $2.90 \text{ V/m}$ ; Power Drift =  $-0.195 \text{ dB}$

Peak SAR (extrapolated) =  $0.199 \text{ W/kg}$

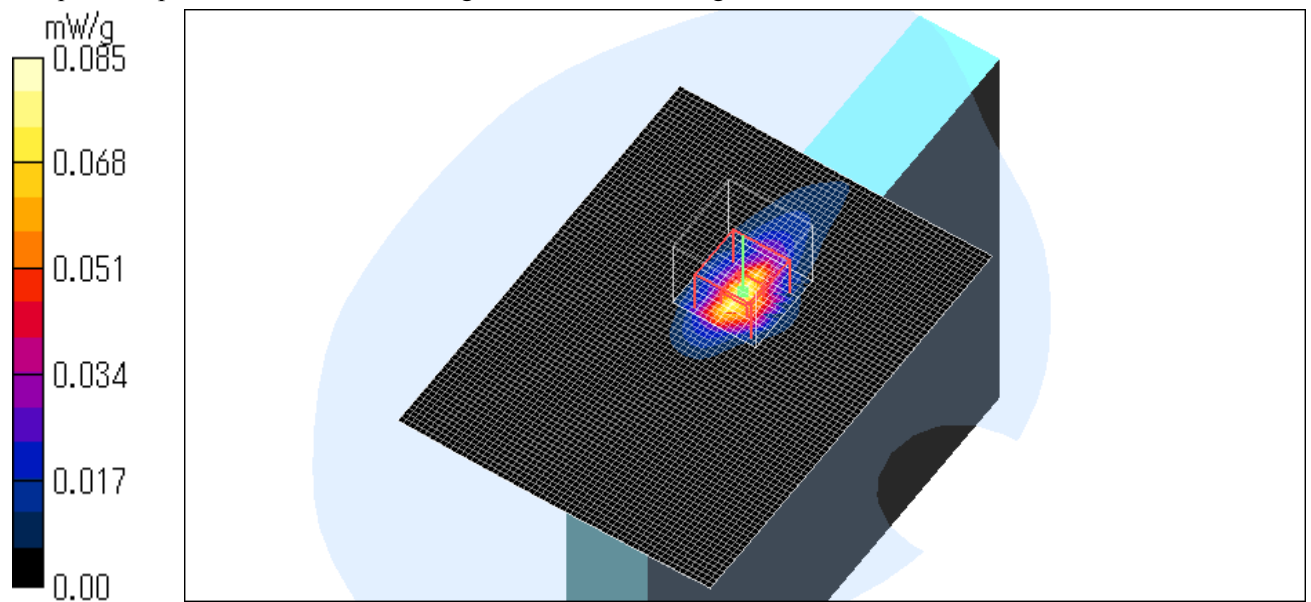
**SAR(1 g) =  $0.072 \text{ mW/g}$ ; SAR(10 g) =  $0.029 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.085 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0\text{degree.C}$ .

Liquid Temperature = Before  $24.5 \text{ degree.C}$  , After  $24.7 \text{ degree.C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Side / 11g 2437MHz /64QAM(54Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DAS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.070 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $2.86 \text{ V/m}$ ; Power Drift =  $-0.101 \text{ dB}$

Peak SAR (extrapolated) =  $0.196 \text{ W/kg}$

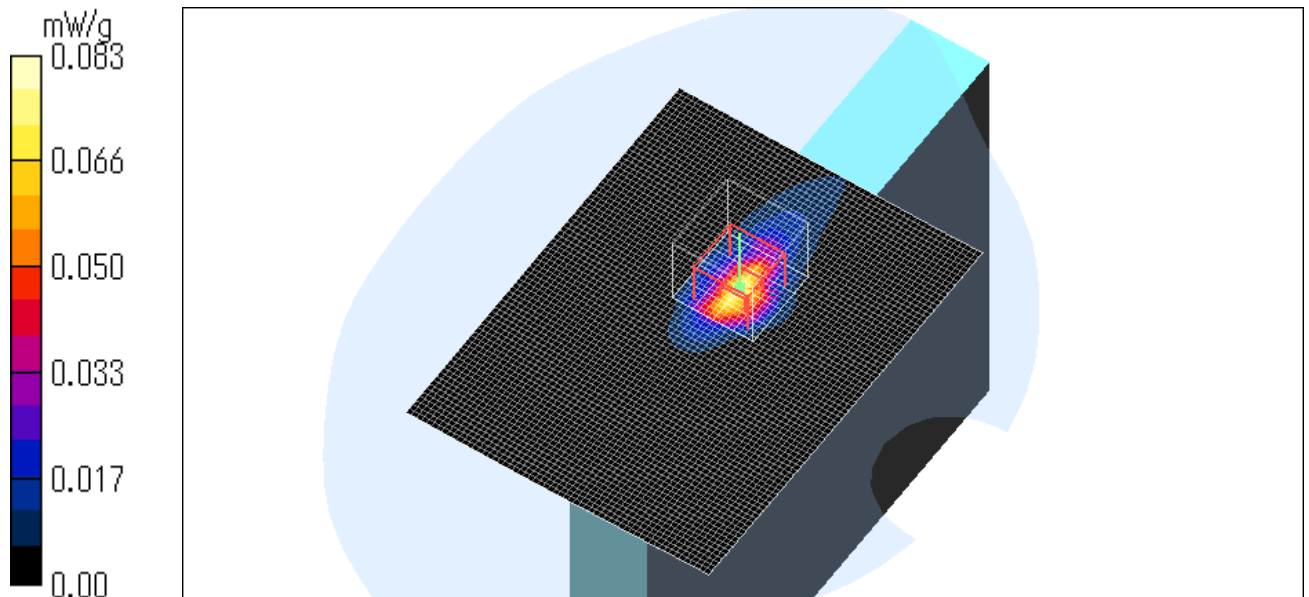
**SAR(1 g) =  $0.071 \text{ mW/g}$ ; SAR(10 g) =  $0.028 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.083 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0^\circ\text{C}$ .

Liquid Temperature = Before  $24.8^\circ\text{C}$ . , After  $24.8^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Front / 11g 2437MHz /QPSK(18Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.106 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $4.02 \text{ V/m}$ ; Power Drift =  $-0.148 \text{ dB}$

Peak SAR (extrapolated) =  $0.250 \text{ W/kg}$

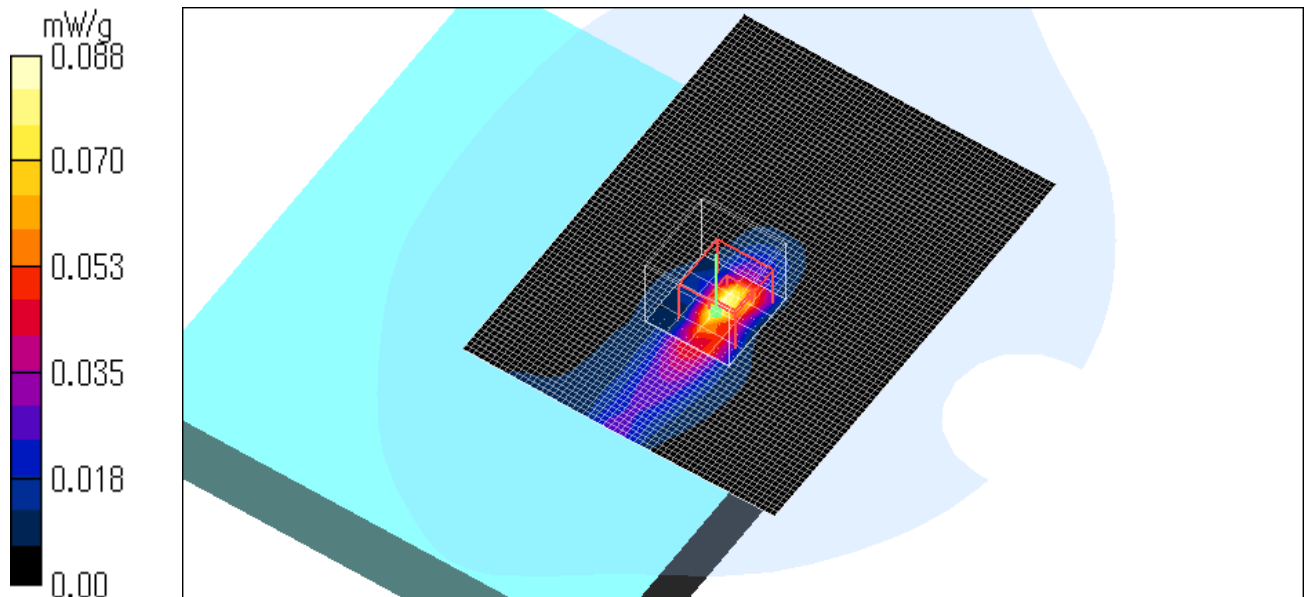
**SAR(1 g) =  $0.075 \text{ mW/g}$ ; SAR(10 g) =  $0.028 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.088 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0^\circ\text{C}$ .

Liquid Temperature = Before  $24.7^\circ\text{C}$ . , After  $24.7^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Back / 11g 2437MHz /QPSK(18Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DAS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.01 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $0.902 \text{ V/m}$ ; Power Drift =  $-0.00 \text{ dB}$

Peak SAR (extrapolated) =  $0.024 \text{ W/kg}$

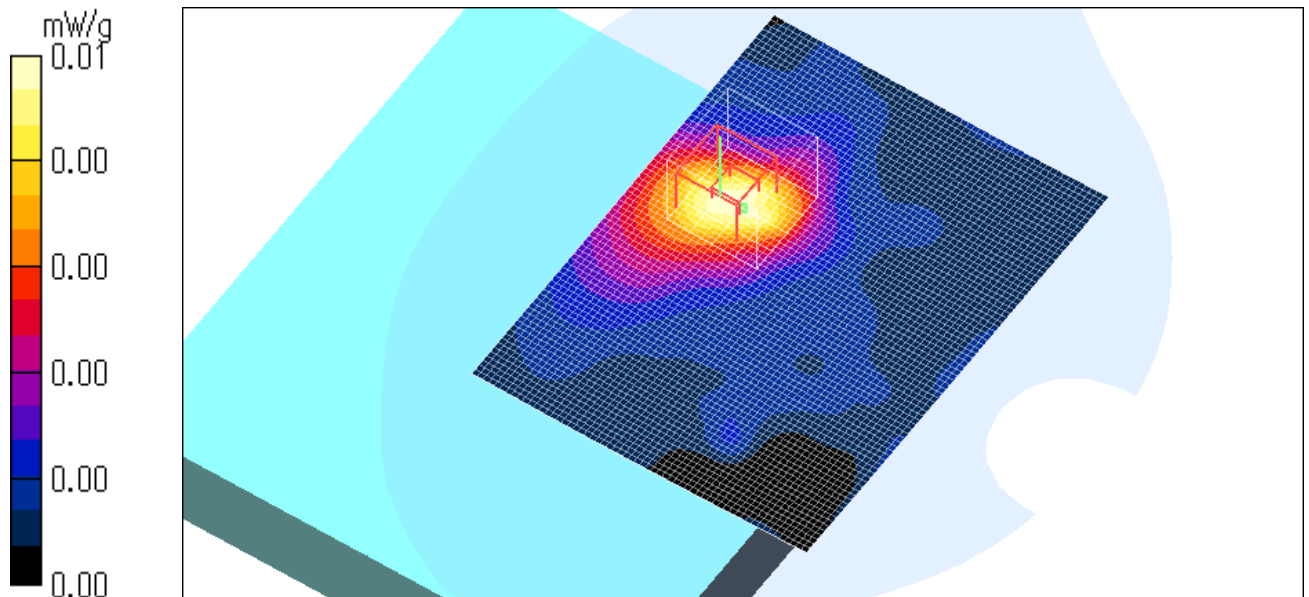
**SAR(1 g) =  $0.00551 \text{ mW/g}$ ; SAR(10 g) =  $0.00173 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.01 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0^\circ\text{C}$ .

Liquid Temperature = Before  $24.7^\circ\text{C}$ . , After  $24.7^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Bottom / 11 g 2437MHz / QPSK(18Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 50.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.00 mW/g

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

Reference Value = 0.664 V/m; Power Drift = 0.095 dB

Peak SAR (extrapolated) = 0.01 W/kg

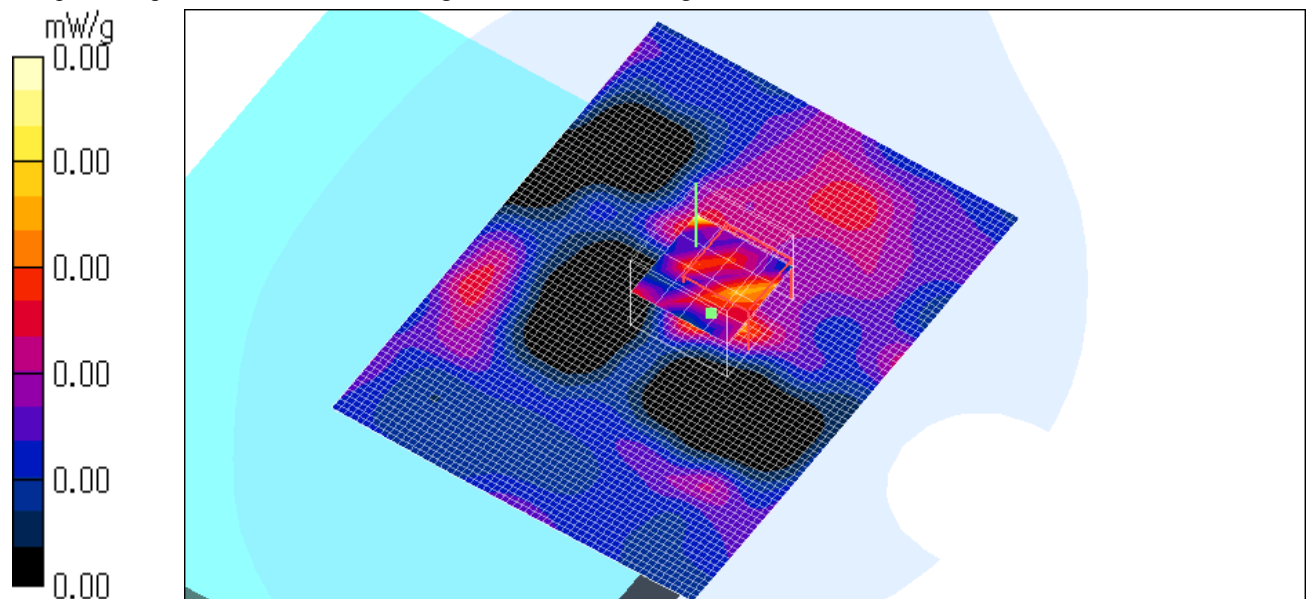
**SAR(1 g) = 0.00146 mW/g; SAR(10 g) = 0.00084 mW/g**

Maximum value of SAR (measured) = 0.00 mW/g

Test Date = 05/06/05

Ambient Temperature = 25.0degree.C.

Liquid Temperature = Before 24.6 degree.C. , After 24.7 degree.C.



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Front / 11g 2412MHz / QPSK(18Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

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

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.089 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $3.07 \text{ V/m}$ ; Power Drift =  $-0.180 \text{ dB}$

Peak SAR (extrapolated) =  $0.199 \text{ W/kg}$

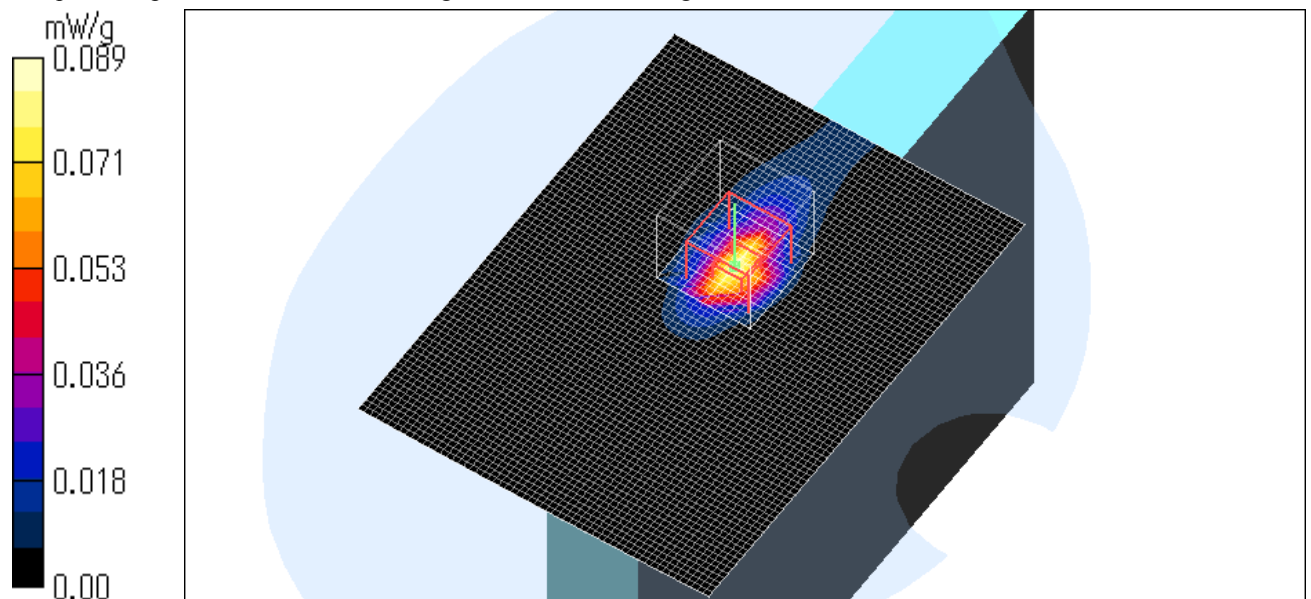
**SAR(1 g) =  $0.076 \text{ mW/g}$ ; SAR(10 g) =  $0.031 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.089 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0^\circ\text{C}$ .

Liquid Temperature = Before  $24.7^\circ\text{C}$ . , After  $24.7^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

---

**P1510 / Body / Aux Side/ 11g 2462MHz / QPSK(18Mbps)**

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 50.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.14, 4.14, 4.14); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn516; Calibrated: 2005/03/10

Phantom: SAM 1196

Measurement SW: DAS4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 145

**Area Scan (61x81x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $0.054 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $2.31 \text{ V/m}$ ; Power Drift =  $-0.249 \text{ dB}$

Peak SAR (extrapolated) =  $0.120 \text{ W/kg}$

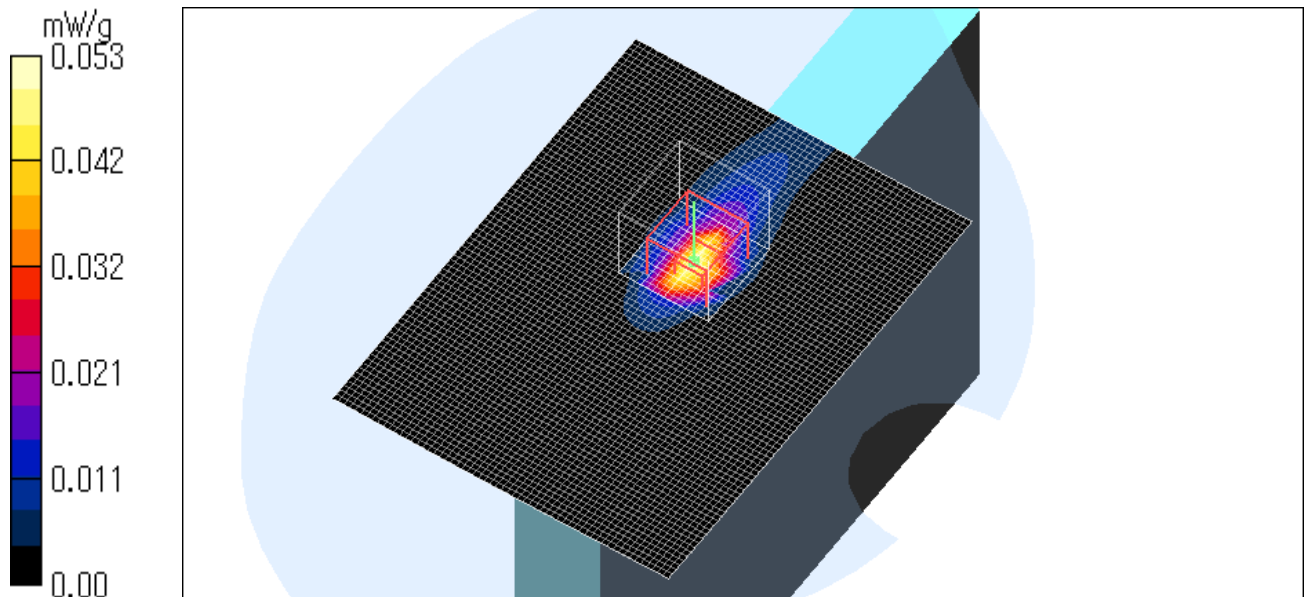
**SAR(1 g) =  $0.046 \text{ mW/g}$ ; SAR(10 g) =  $0.018 \text{ mW/g}$**

Maximum value of SAR (measured) =  $0.053 \text{ mW/g}$

Test Date = 05/06/05

Ambient Temperature =  $25.0^\circ\text{C}$ .

Liquid Temperature = Before  $24.7^\circ\text{C}$ . , After  $24.6^\circ\text{C}$ .



---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

### **APPENDIX 3 : Validation Measurement data**

---

## System Validation / Dipole 2450 MHz / Forward Conducted Power : 250mW

Dipole 2450 MHz;  
- Type: D2450V2; Serial: SN:713

Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.82 \text{ mho/m}$ ;  $\epsilon_r = 37$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.39, 4.39, 4.39); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2003/04/10

Phantom: SAM 1196

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

**Area Scan (51x51x1):** Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

Maximum value of SAR (interpolated) =  $22.0 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $99.0 \text{ V/m}$ ; Power Drift =  $0.013 \text{ dB}$

Peak SAR (extrapolated) =  $29.1 \text{ W/kg}$

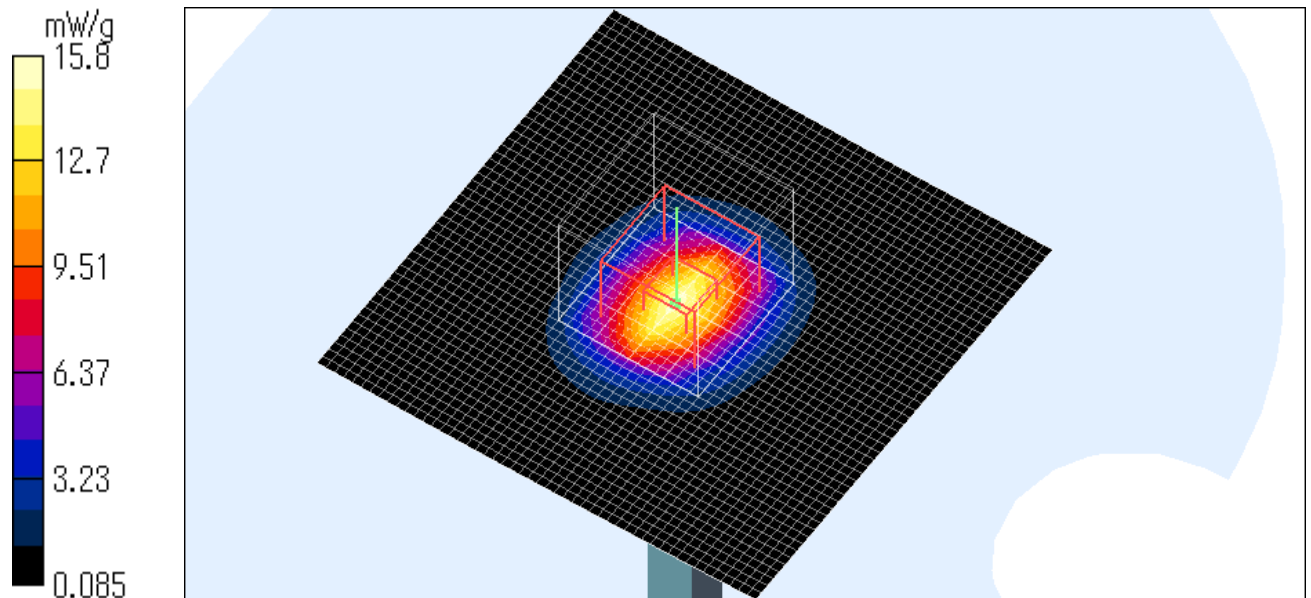
**SAR(1 g) =  $14.1 \text{ mW/g}$ ; SAR(10 g) =  $6.54 \text{ mW/g}$**

Maximum value of SAR (measured) =  $15.8 \text{ mW/g}$

Test Date = 05/02/05

Ambient Temperature =  $25.0^\circ\text{C}$ .

Liquid Temperature = Before  $24.8^\circ\text{C}$ . , After  $24.8^\circ\text{C}$ .



---

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124

## System Validation / Dipole 2450 MHz / Forward Conducted Power : 250mW

Dipole 2450 MHz;  
- Type: D2450V2; Serial: SN:713

Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 36.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

Probe: ET3DV6 - SN1684; ConvF(4.39, 4.39, 4.39); Calibrated: 2004/09/02

Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)

Electronics: DAE3 Sn509; Calibrated: 2003/04/10

Phantom: SAM 1196

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

**Area Scan (51x51x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 22.8 mW/g

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

Reference Value = 98.2 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 29.8 W/kg

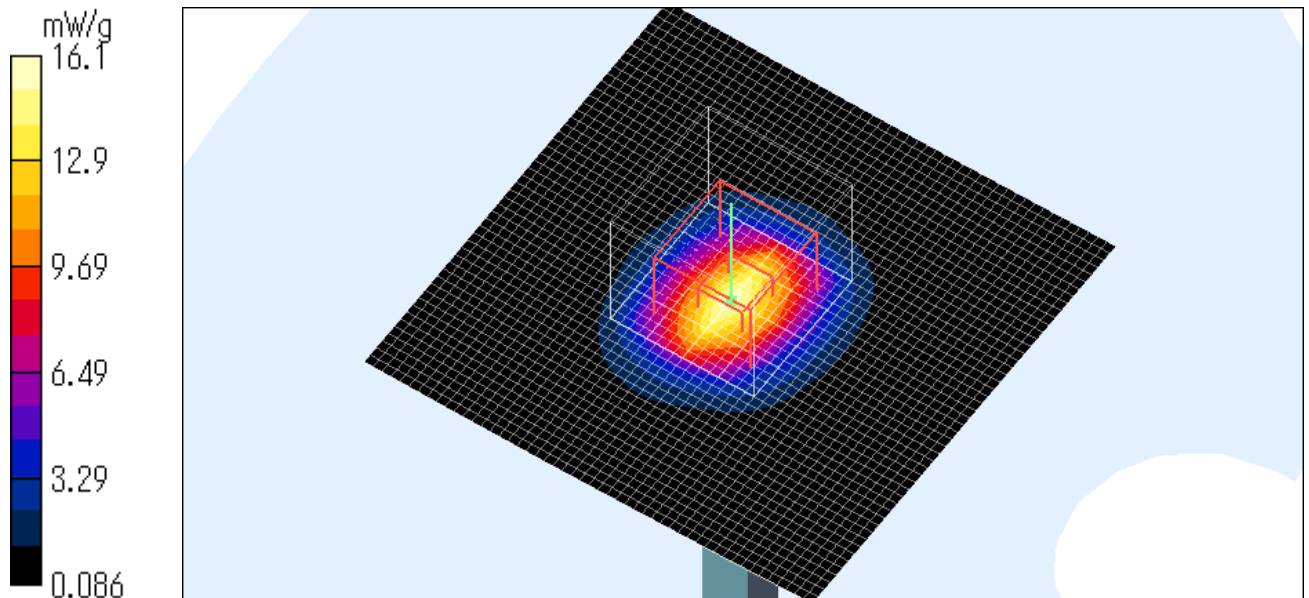
**SAR(1 g) = 14.3 mW/g; SAR(10 g) = 6.65 mW/g**

Maximum value of SAR (measured) = 16.1 mW/g

Test Date = 05/06/05

Ambient Temperature = 25.0degree.C.

Liquid Temperature = Before 24.8 degree.C. , After 24.7 degree.C.



UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116

Facsimile: +81 596 24 8124