

Test Laboratory: Advance Data Technology

## **BENQ 56W10 11b Antenna 1 Dell Inspiron 3800 Bottom Mode 9 Ch 11**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2462 MHz**

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.9496$  mho/m,  $\epsilon_r = 53.4606$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm  
Phantom section: Flat Section ; Separation distance : 11 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**High Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 3.66 V/m

Power Drift = -0.05 dB

Maximum value of SAR = 0.205 mW/g

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

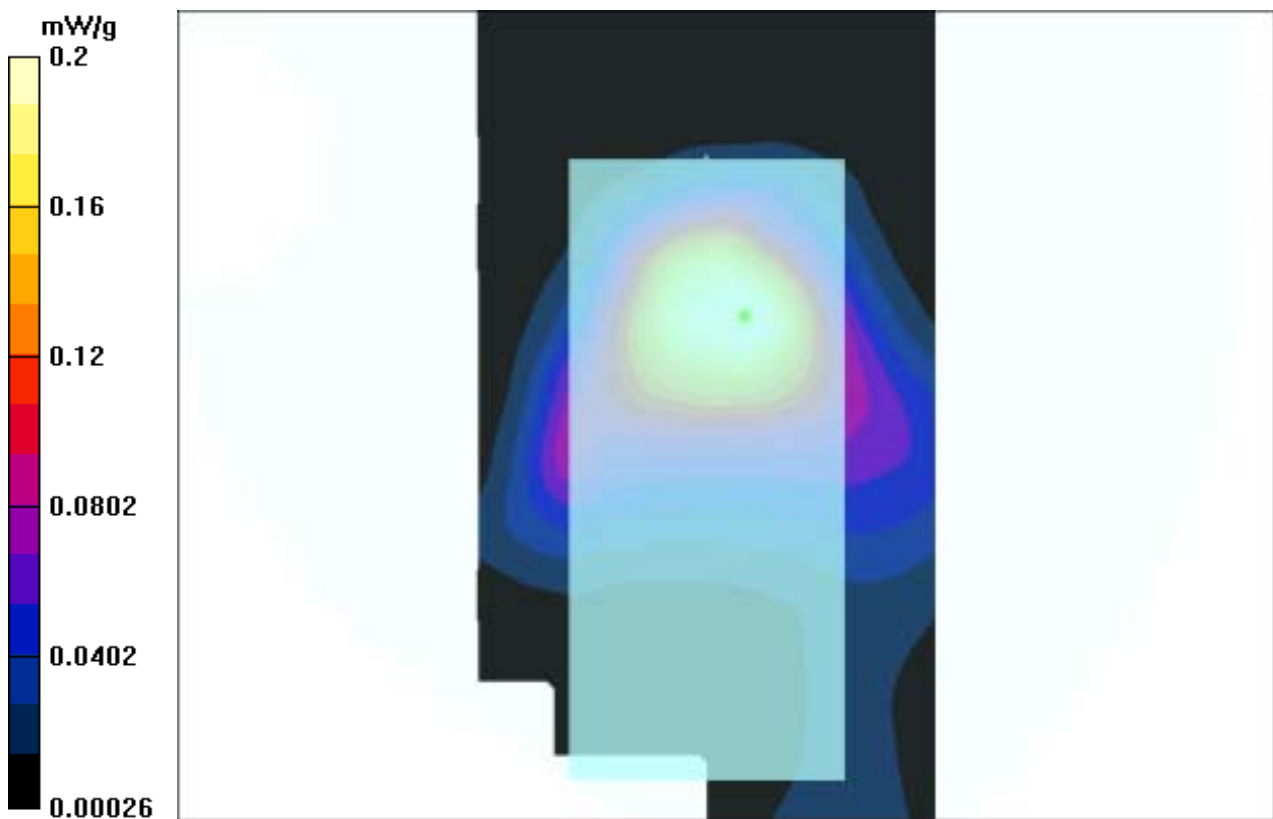
Peak SAR (extrapolated) = 0.397 W/kg

**SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.107 mW/g**

Reference Value = 3.66 V/m

Power Drift = -0.05 dB

Maximum value of SAR = 0.2 mW/g



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### **BENQ 56W10 11b Antenna 1 Dell Inspiron 3800 Tip Mode 10 Ch 1**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2412 MHz**

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.8817$  mho/m,  $\epsilon_r = 53.5398$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 3.67 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 0.0344 mW/g

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

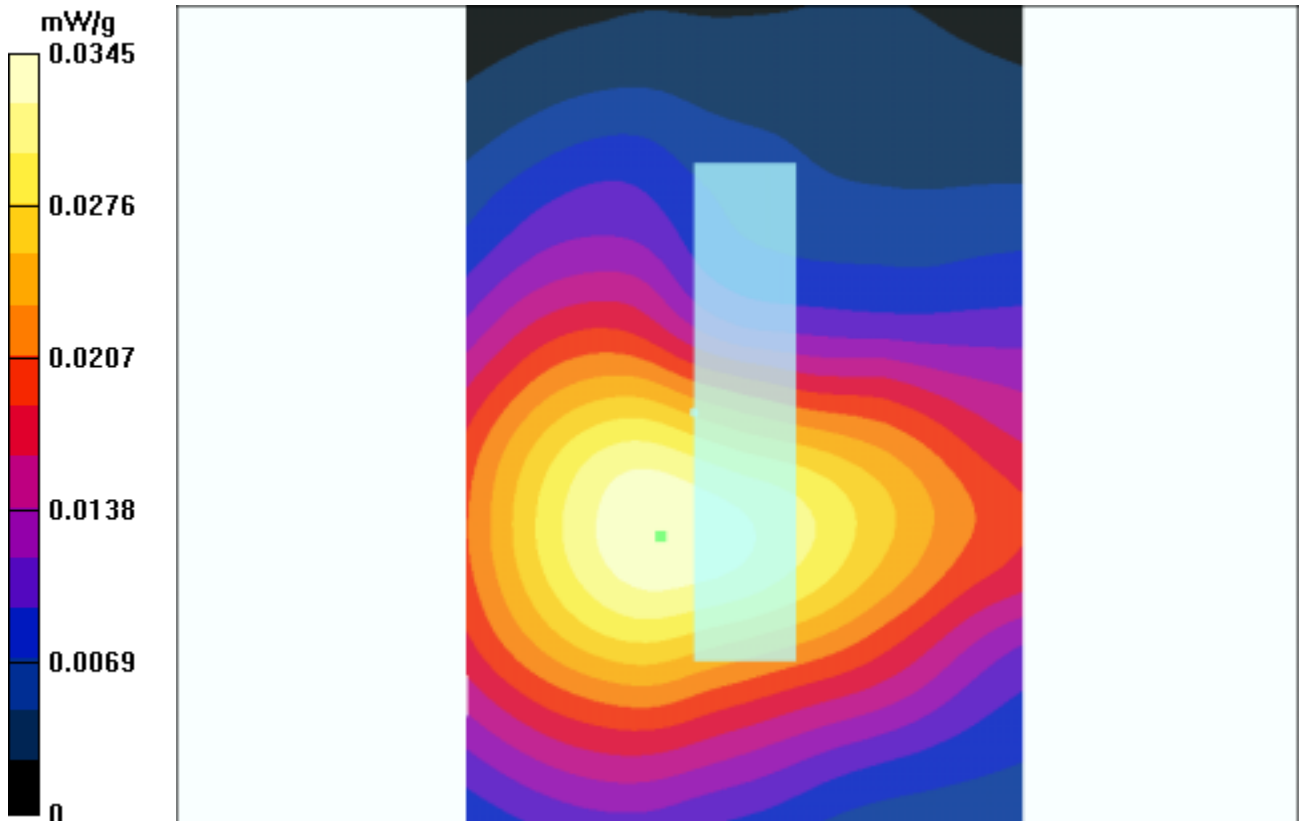
Peak SAR (extrapolated) = 0.0744 W/kg

**SAR(1 g) = 0.0336 mW/g; SAR(10 g) = 0.0183 mW/g**

Reference Value = 3.67 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 0.0345 mW/g



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### BENQ 56W10 11b Antenna 1 Dell Inspiron 3800 Tip Mode 10 Ch 6

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2437 MHz**

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.9174$  mho/m,  $\epsilon_r = 53.4732$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Middle Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 3.14 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.0275 mW/g

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

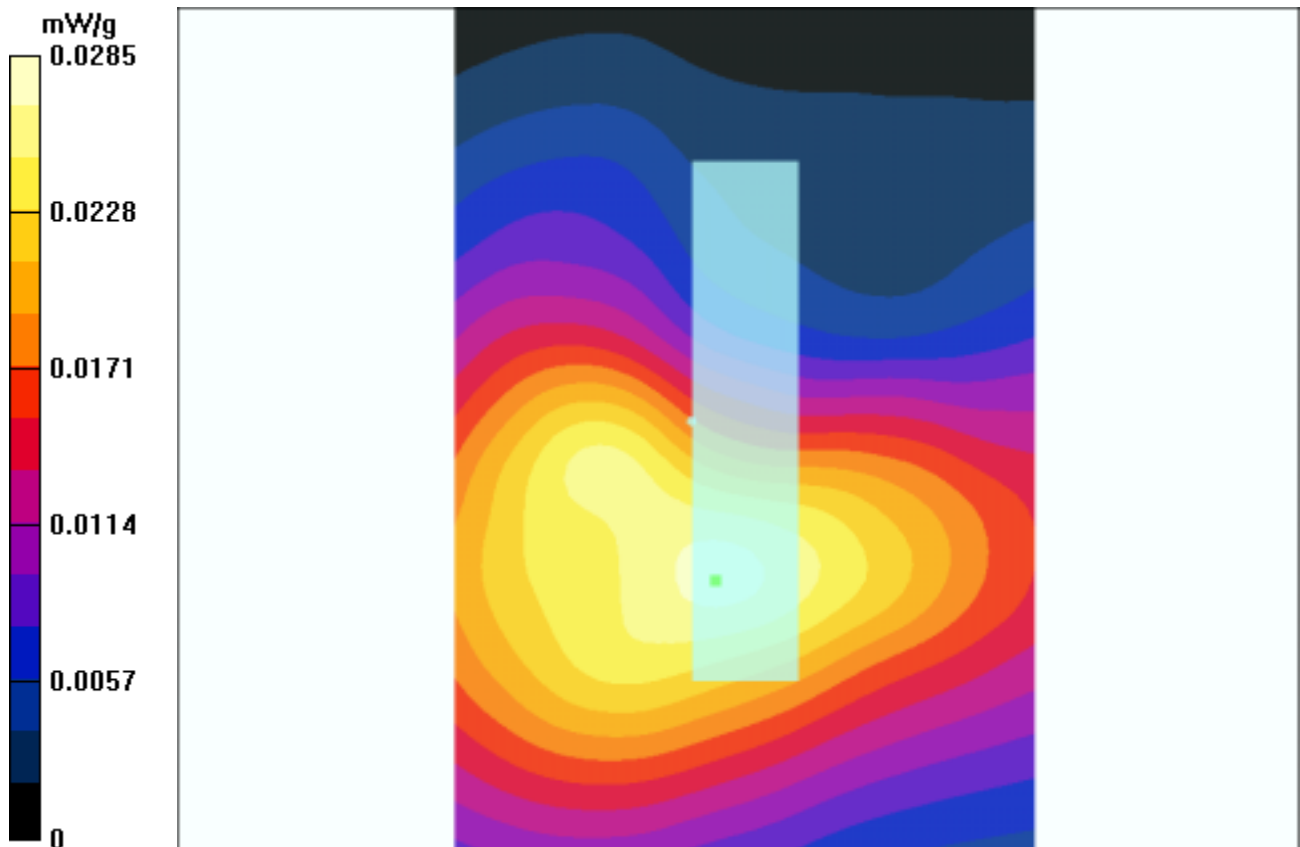
Peak SAR (extrapolated) = 0.0713 W/kg

**SAR(1 g) = 0.0288 mW/g; SAR(10 g) = 0.0147 mW/g**

Reference Value = 3.14 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.0285 mW/g



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### **BENQ 56W10 11b Antenna 1 Dell Inspiron 3800 Tip Mode 10 Ch 11**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2462 MHz**

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.9496$  mho/m,  $\epsilon_r = 53.4606$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**High Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 2.17 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.017 mW/g

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

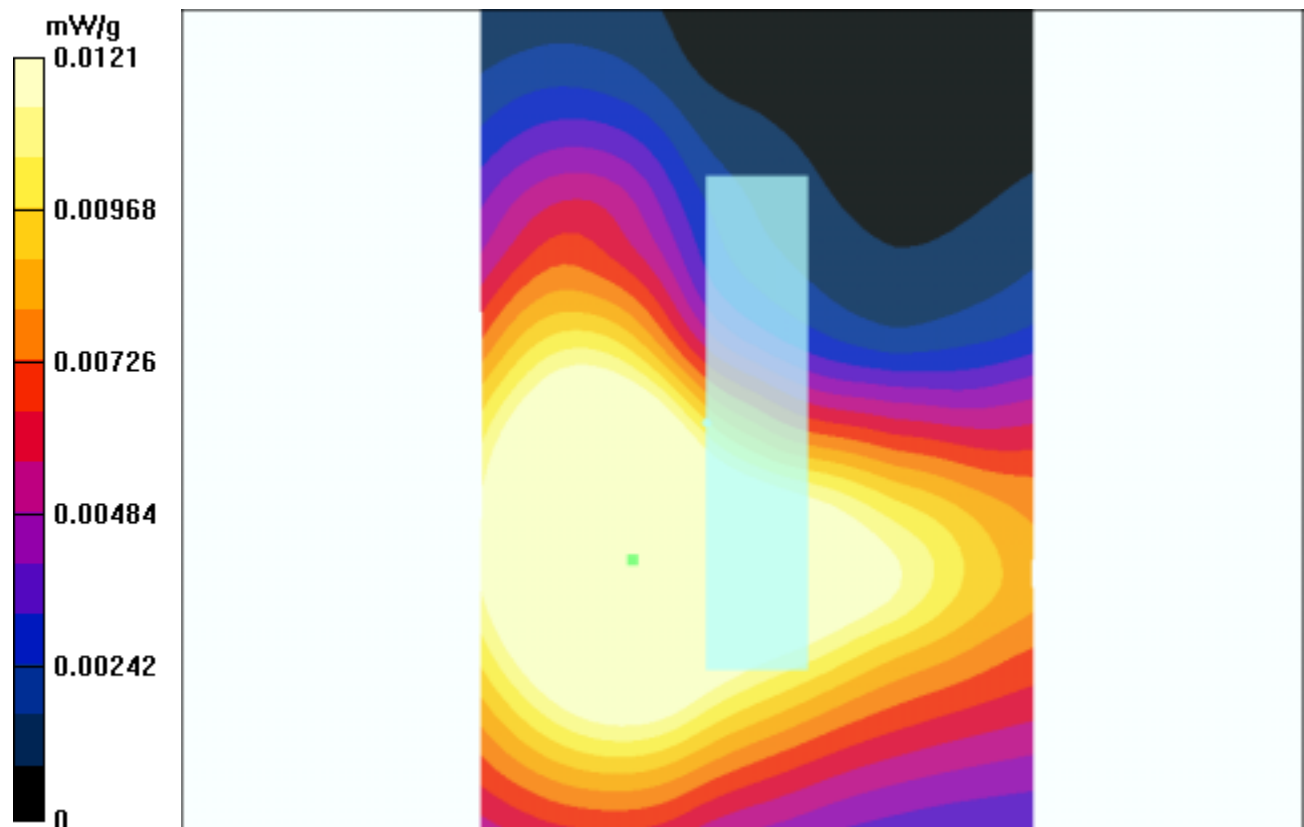
Peak SAR (extrapolated) = 0.0299 W/kg

**SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.00619 mW/g**

Reference Value = 2.17 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.0121 mW/g



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### BENQ 56W10 11b Antenna 2 Dell Inspiron 3800 Bottom Mode 11 Ch 1

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2412 MHz**

Communication System: 802.11b ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.8817$  mho/m,  $\epsilon_r = 53.5398$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm  
Phantom section: Flat Section ; Separation distance : 11 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.57 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.341 mW/g

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

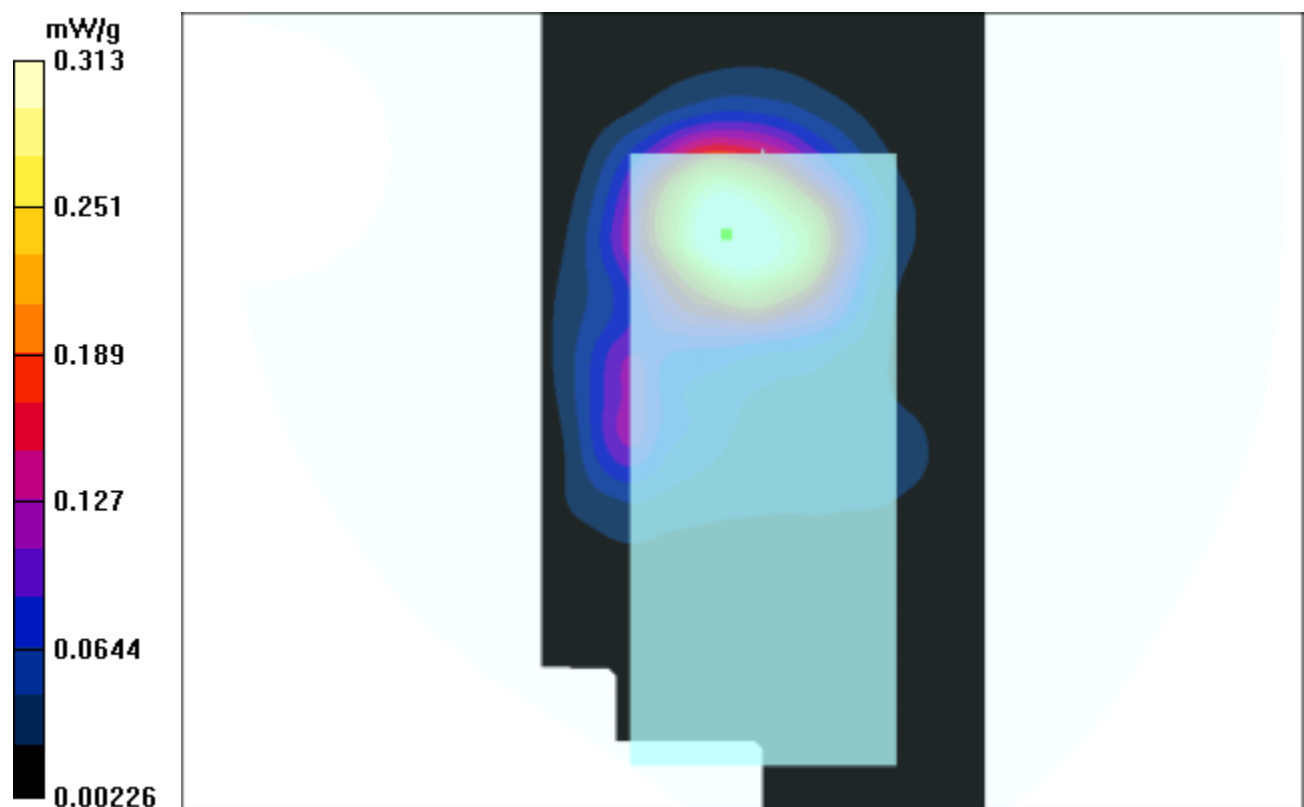
Peak SAR (extrapolated) = 0.636 W/kg

**SAR(1 g) = 0.304 mW/g; SAR(10 g) = 0.165 mW/g**

Reference Value = 9.57 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.313 mW/g



Test Laboratory: Advance Data Technology

## BENQ 56W10 11b Antenna 2 Dell Inspiron 3800 Bottom Mode 11 Ch 6

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2437 MHz**

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.9174$  mho/m,  $\epsilon_r = 53.4732$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm  
Phantom section: Flat Section ; Separation distance : 11 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**Middle Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 8.62 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.28 mW/g

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

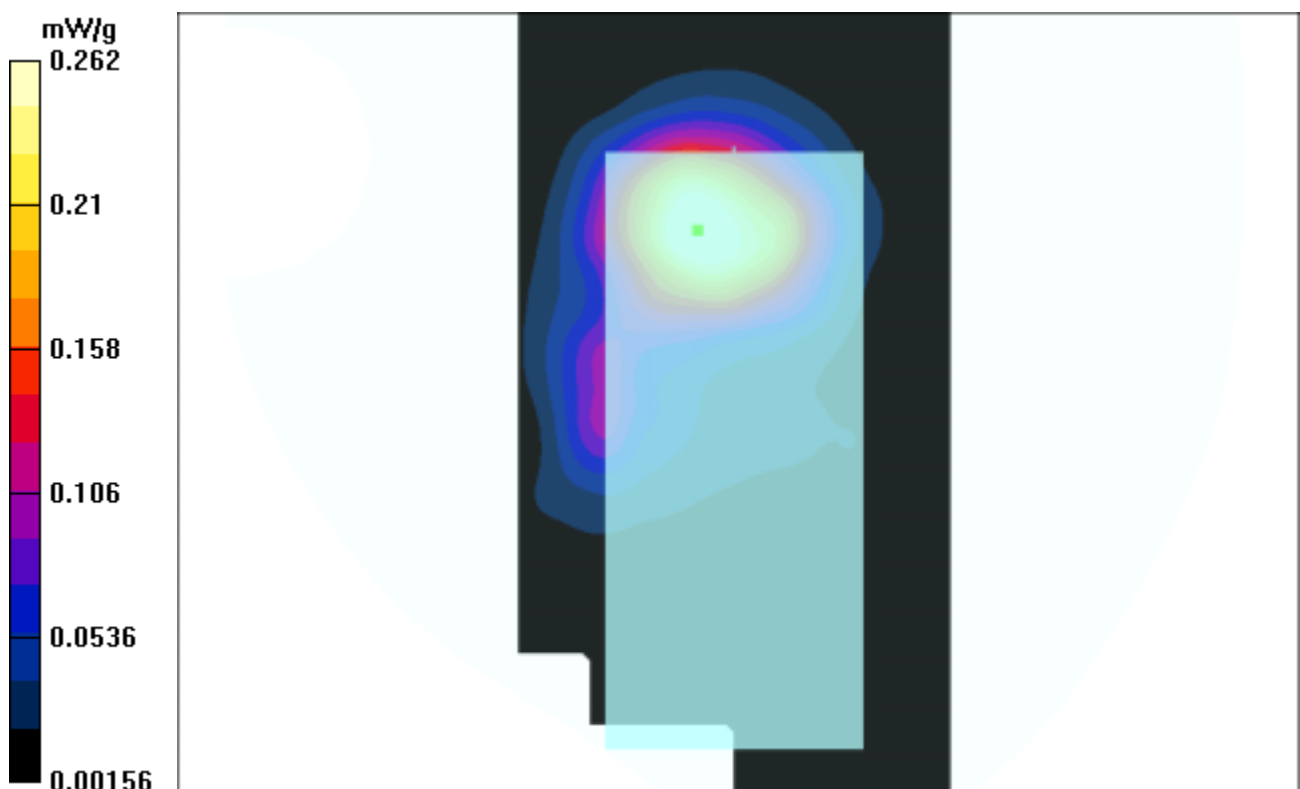
Peak SAR (extrapolated) = 0.532 W/kg

**SAR(1 g) = 0.254 mW/g; SAR(10 g) = 0.137 mW/g**

Reference Value = 8.62 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.262 mW/g



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## BENQ 56W10 11b Antenna 2 Dell Inspiron 3800 Bottom Mode 11 Ch 11

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2462 MHz**

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.9496$  mho/m,  $\epsilon_r = 53.4606$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm  
Phantom section: Flat Section ; Separation distance : 11 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**High Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.67 V/m

Power Drift = 0.02 dB

Maximum value of SAR = 0.173 mW/g

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

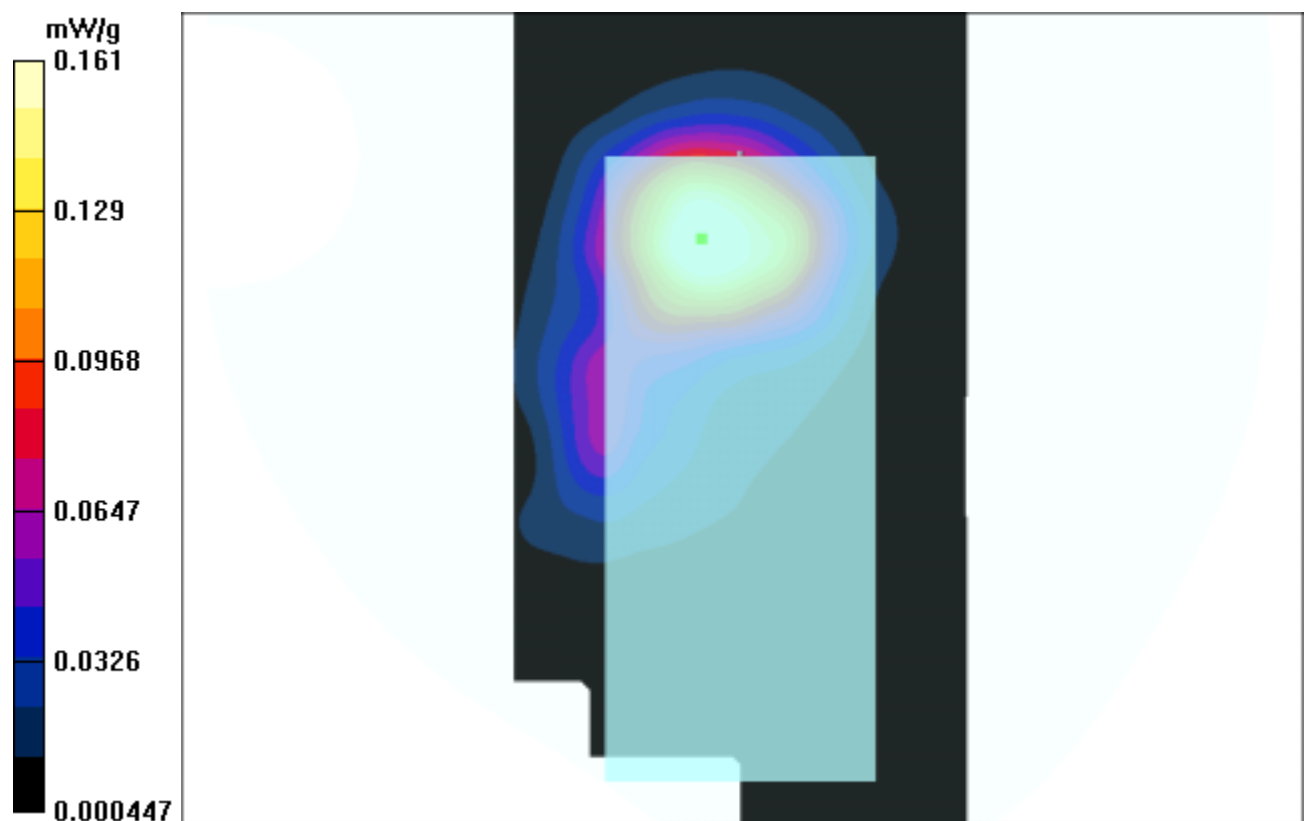
Peak SAR (extrapolated) = 0.334 W/kg

**SAR(1 g) = 0.158 mW/g; SAR(10 g) = 0.0849 mW/g**

Reference Value = 6.67 V/m

Power Drift = 0.02 dB

Maximum value of SAR = 0.161 mW/g



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### BENQ 56W10 11b Antenna 2 Dell Inspiron 3800 Tip Mode 12 Ch 1

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2412 MHz**

Communication System: 802.11b ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.8817$  mho/m,  $\epsilon_r = 53.5398$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm  
Phantom section: Flat Section ; Separation distance : 15 mm (The tip side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.12 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.136 mW/g

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

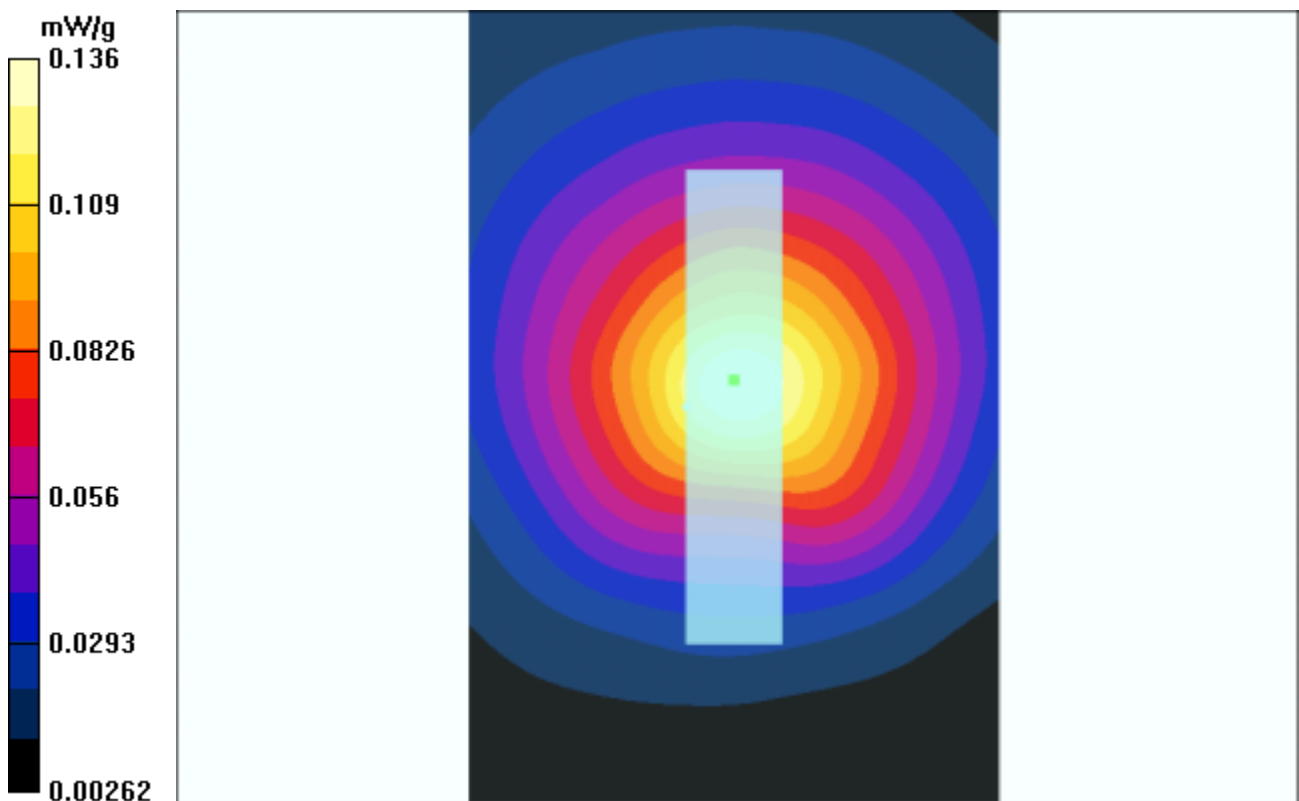
Peak SAR (extrapolated) = 0.326 W/kg

**SAR(1 g) = 0.124 mW/g; SAR(10 g) = 0.0636 mW/g**

Reference Value = 9.12 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.126 mW/g





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### **BENQ 56W10 11b Antenna 2 Dell Inspiron 3800 Tip Mode 12 Ch 6**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2437 MHz**

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.9174$  mho/m,  $\epsilon_r = 53.4732$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Middle Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.51 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.0975 mW/g

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

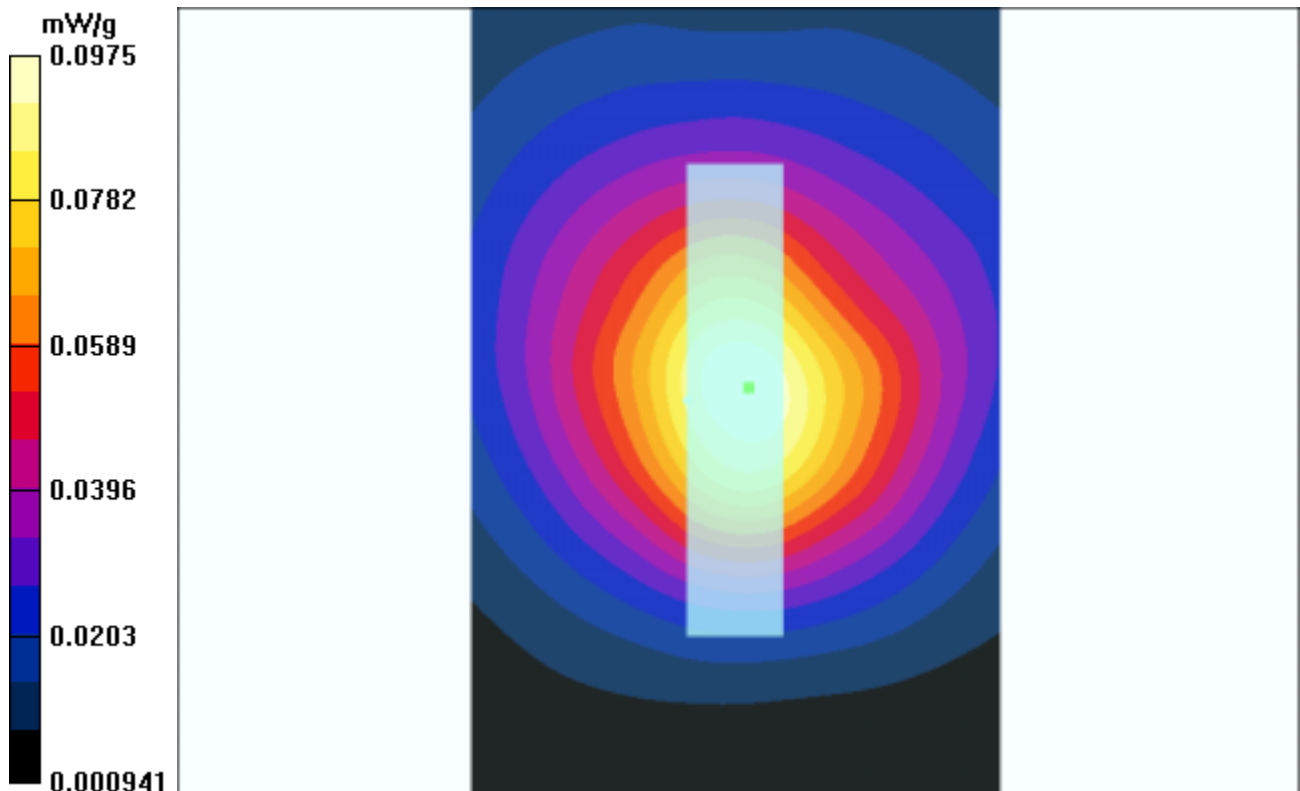
Peak SAR (extrapolated) = 0.19 W/kg

**SAR(1 g) = 0.0912 mW/g; SAR(10 g) = 0.0481 mW/g**

Reference Value = 7.51 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.0968 mW/g



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### **BENQ 56W10 11b Antenna 2 Dell Inspiron 3800 Tip Mode 12 Ch 11**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2462 MHz**

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.9496$  mho/m,  $\epsilon_r = 53.4606$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**High Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.19 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.069 mW/g

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

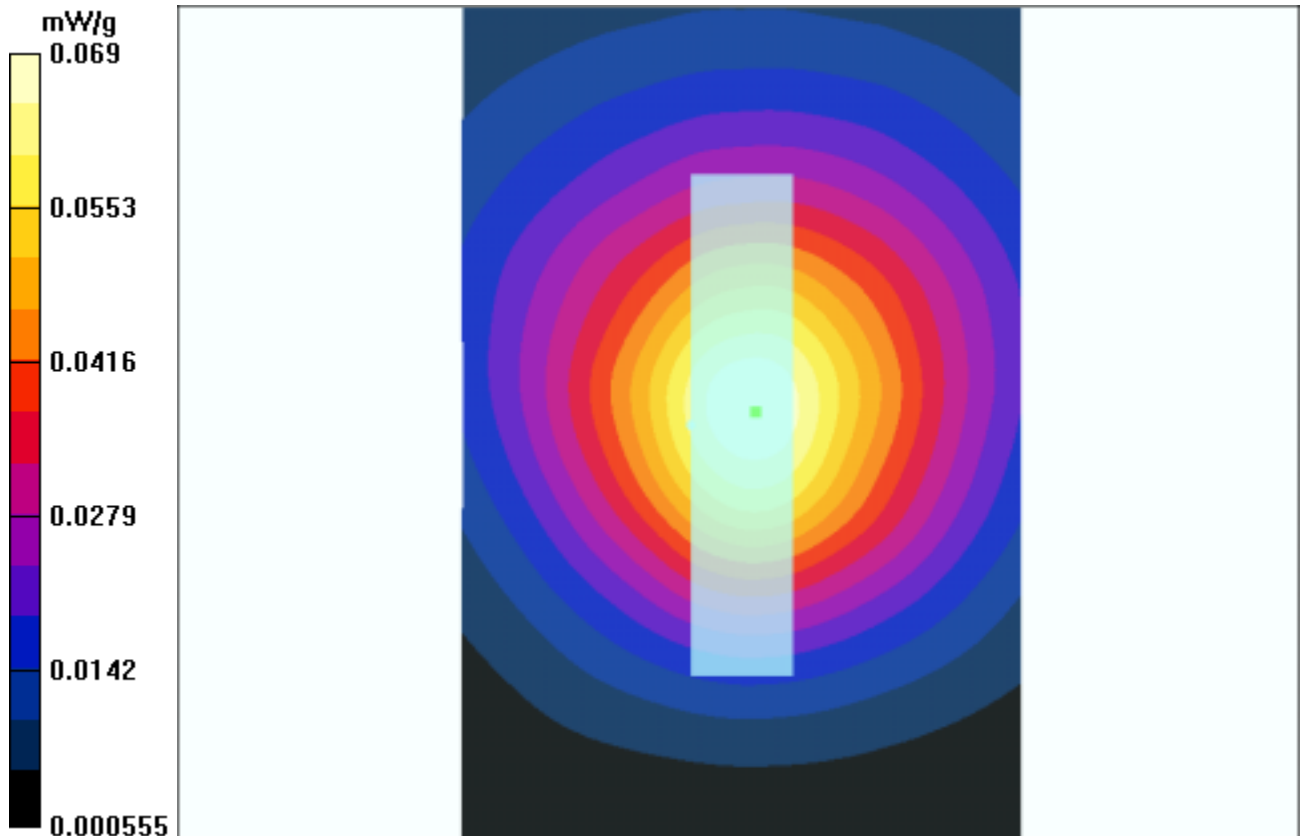
Peak SAR (extrapolated) = 0.137 W/kg

**SAR(1 g) = 0.0652 mW/g; SAR(10 g) = 0.0343 mW/g**

Reference Value = 6.19 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.0695 mW/g



# APPENDIX A3 : TEST DATA

Test mode : GPRS transmit separately

Date/Time: 08/12/04 13:20:56

Test Laboratory: Advance Data Technology

## BENQ 56W10 GPRS PCS1900 Compaq N800C Bottom Mode 13 Ch 512

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1850.2 MHz**

Communication System: PCS 1900 ; Frequency: 1850.2 MHz ; Duty Cycle: 1:4 ; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5034$  mho/m,  $\epsilon_r = 52.0974$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 11.4 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.439 mW/g

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

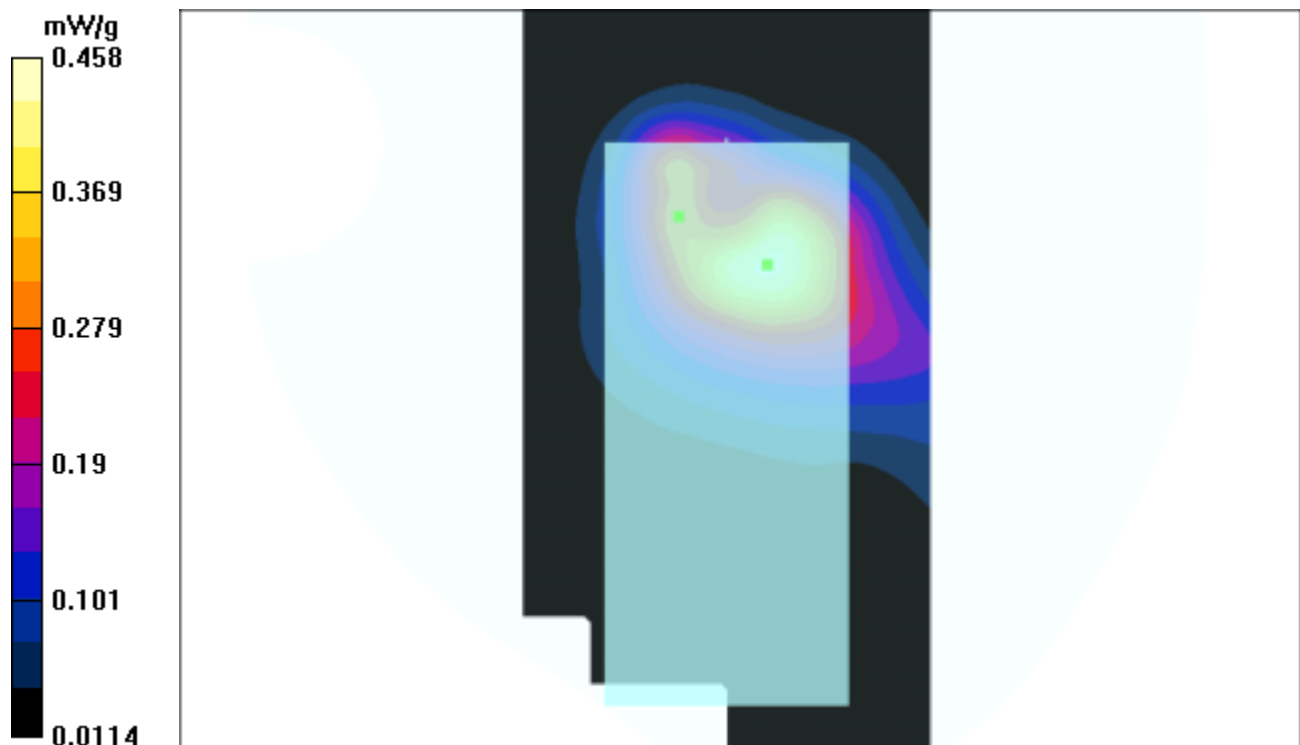
Peak SAR (extrapolated) = 0.633 W/kg

**SAR(1 g) = 0.422 mW/g; SAR(10 g) = 0.248 mW/g**

Reference Value = 11.4 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.458 mW/g



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### **BENQ 56W10 GPRS PCS1900 Compaq N800C Bottom Mode 13 Ch 661**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1880 MHz**

Communication System: PCS 1900 ; Frequency: 1880 MHz ; Duty Cycle: 1:4 ; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.538$  mho/m,  $\epsilon_r = 51.978$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**Middle Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.3 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.457 mW/g

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

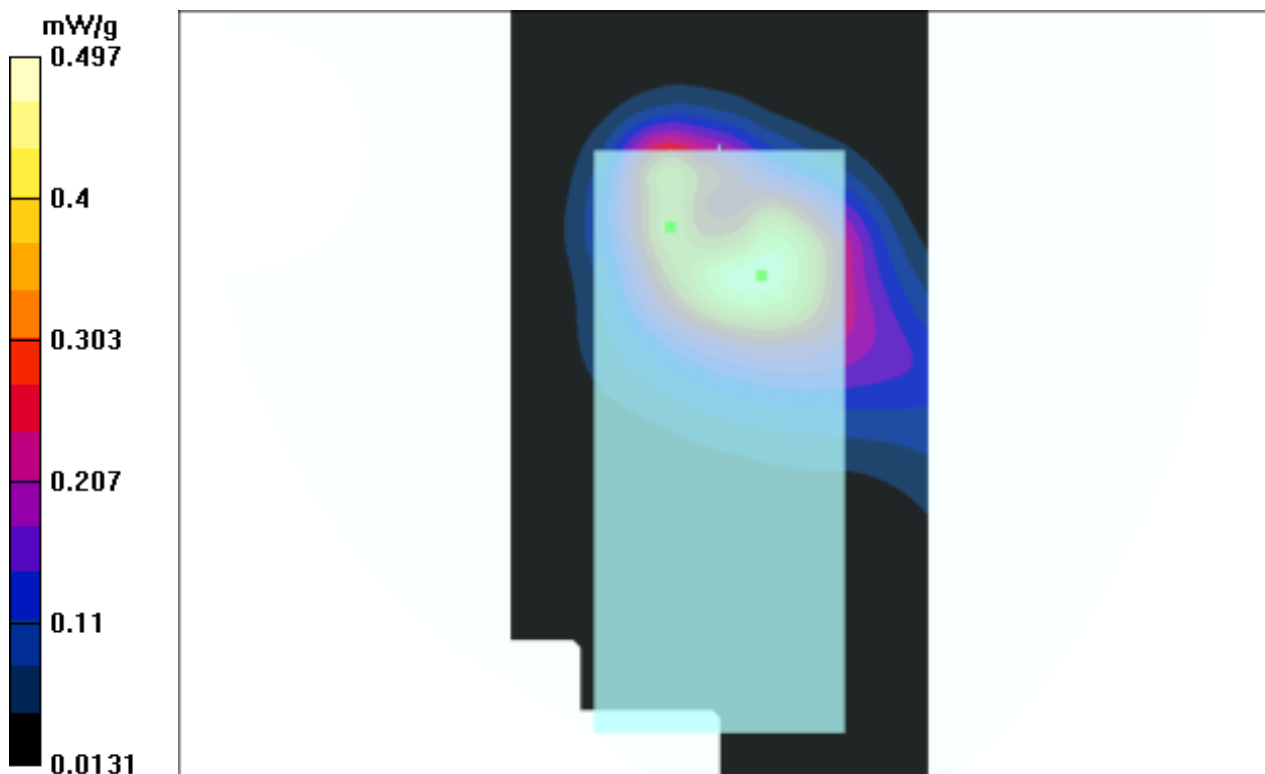
Peak SAR (extrapolated) = 0.716 W/kg

**SAR(1 g) = 0.459 mW/g; SAR(10 g) = 0.263 mW/g**

Reference Value = 12.3 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.497 mW/g



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### **BENQ 56W10 GPRS PCS1900 Compaq N800C Bottom Mode 13 Ch 810**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1909.8 MHz**

Communication System: PCS 1900 ; Frequency: 1909.8 MHz ; Duty Cycle: 1:4 ; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5738$  mho/m,  $\epsilon_r = 51.813$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 12 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**High Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.2 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 0.354 mW/g

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

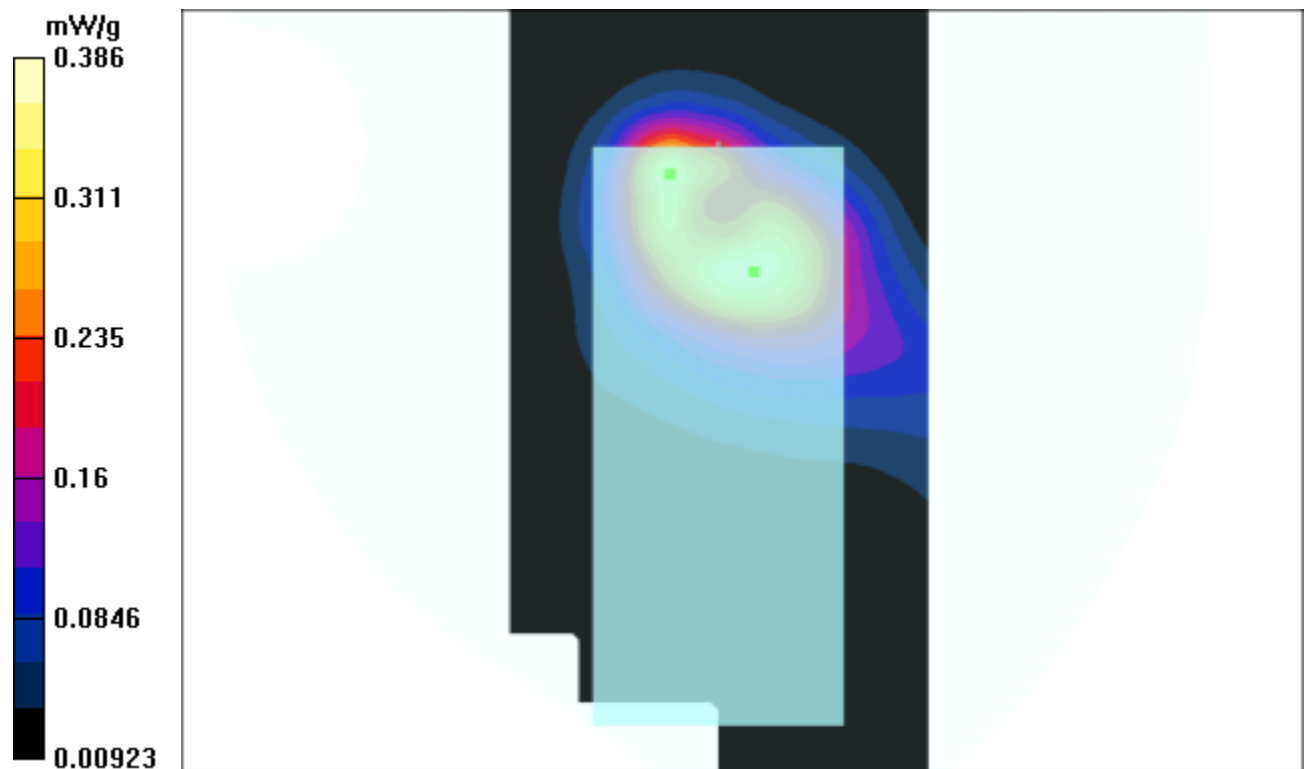
Peak SAR (extrapolated) = 0.572 W/kg

**SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.199 mW/g**

Reference Value = 12.2 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 0.386 mW/g



Test Laboratory: Advance Data Technology

### BENQ 56W10 GPRS PCS1900 Compaq N800C Tip Mode 14 Ch 512

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1850.2 MHz**

Communication System: PCS 1900 ; Frequency: 1850.2 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5034$  mho/m,  $\epsilon_r = 52.0974$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 8.62 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.0953 mW/g

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

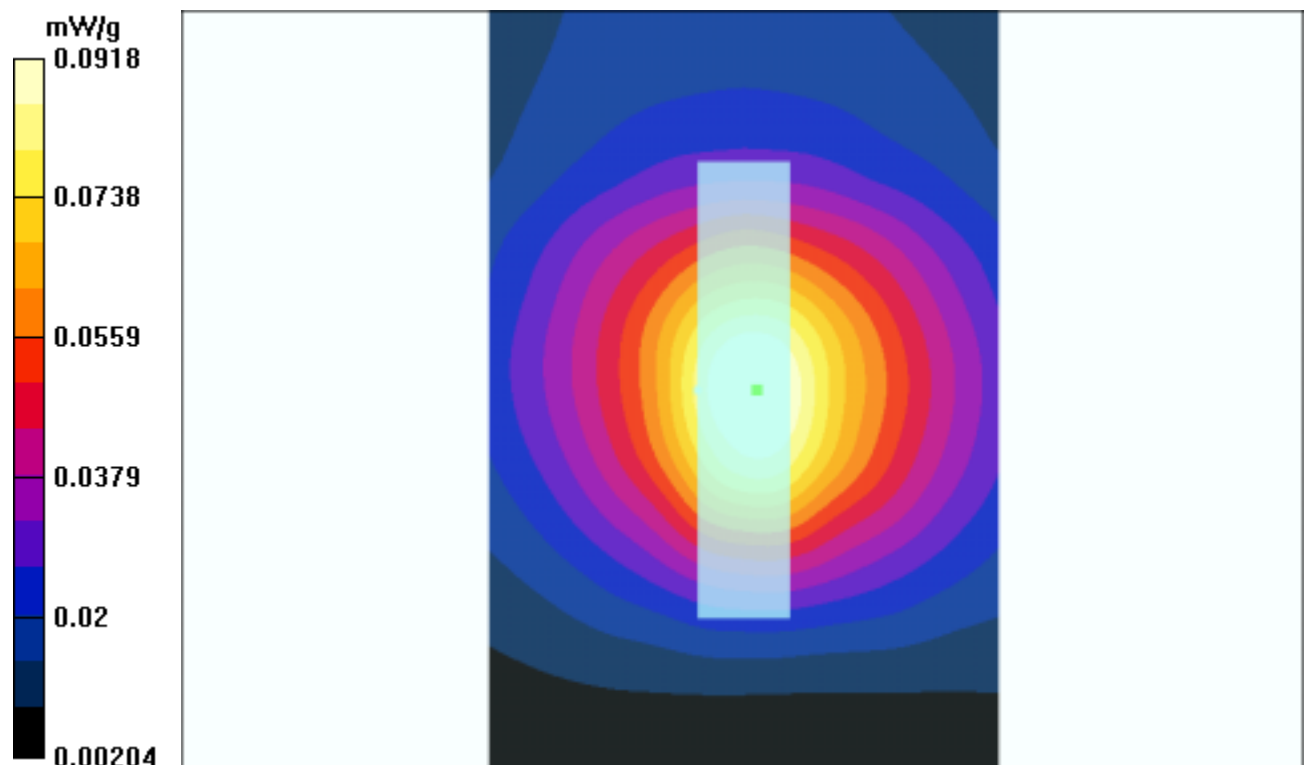
Peak SAR (extrapolated) = 0.131 W/kg

**SAR(1 g) = 0.0837 mW/g; SAR(10 g) = 0.0495 mW/g**

Reference Value = 8.62 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.0918 mW/g



Test Laboratory: Advance Data Technology

### **BENQ 56W10 GPRS PCS1900 Compaq N800C Tip Mode 14 Ch 661**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1880 MHz**

Communication System: PCS 1900 ; Frequency: 1880 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.538$  mho/m,  $\epsilon_r = 51.978$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Middle Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 8.83 V/m

Power Drift = 0.02 dB

Maximum value of SAR = 0.114 mW/g

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

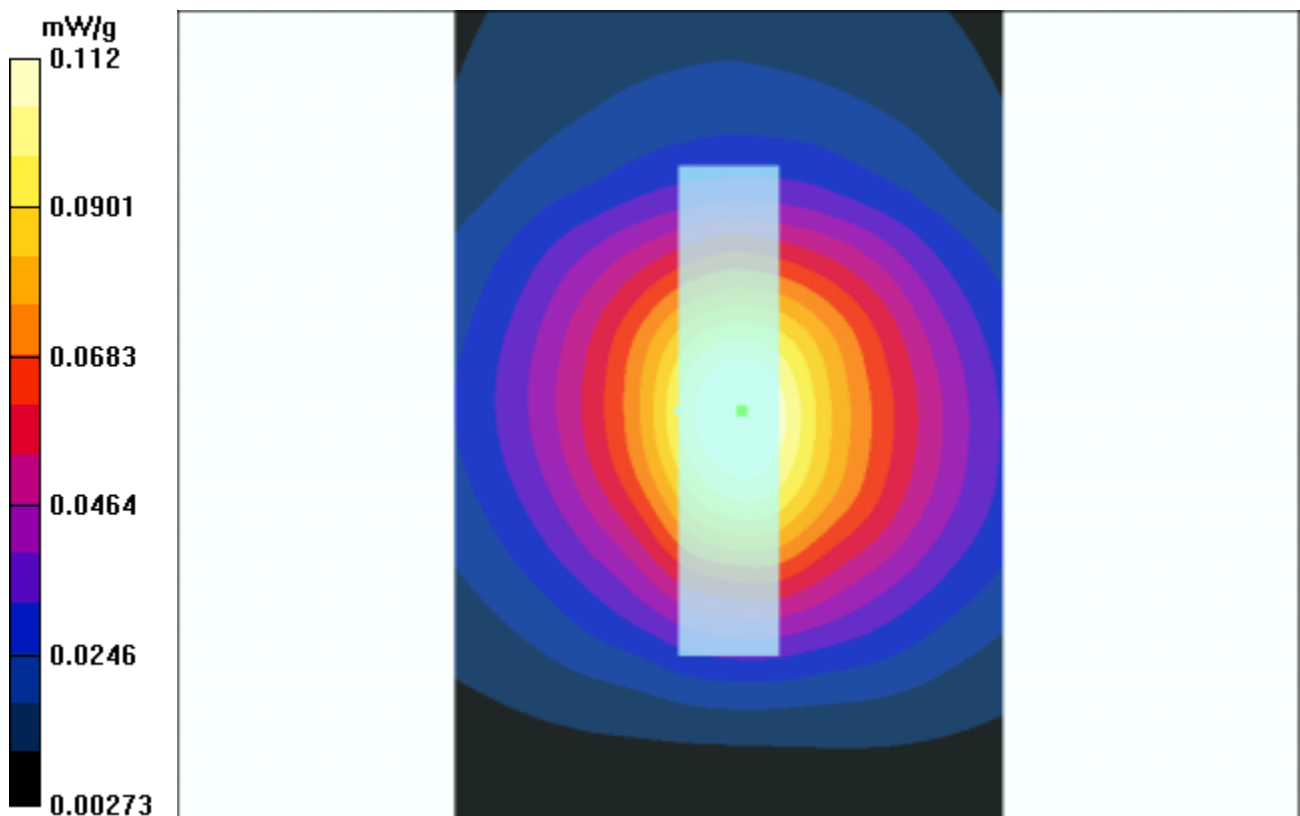
Peak SAR (extrapolated) = 0.161 W/kg

**SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.0608 mW/g**

Reference Value = 8.83 V/m

Power Drift = 0.02 dB

Maximum value of SAR = 0.112 mW/g



Test Laboratory: Advance Data Technology

**BENQ 56W10 GPRS PCS1900 Compaq N800C Tip Mode 14 Ch 810**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1909.8 MHz**

Communication System: PCS 1900 ; Frequency: 1909.8 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5738$  mho/m,  $\epsilon_r = 51.813$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**High Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.99 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.0898 mW/g

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

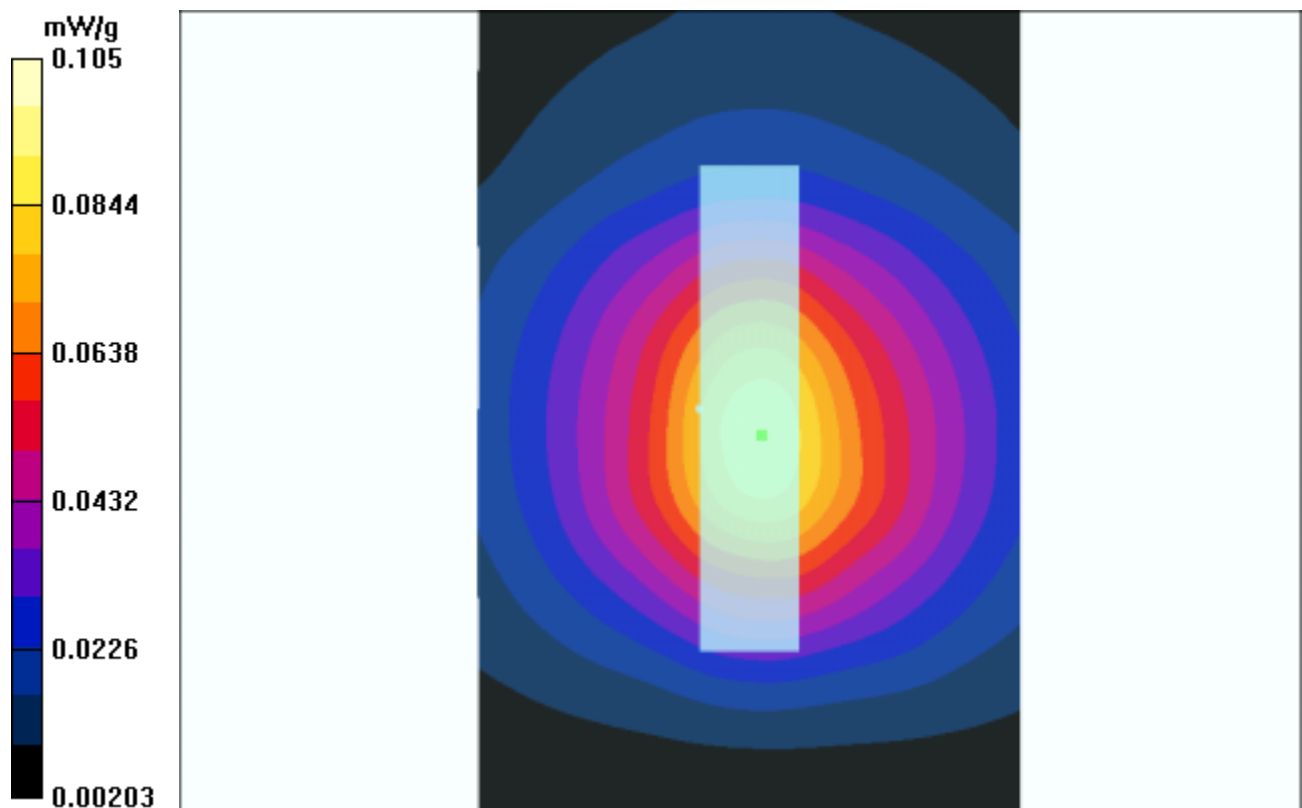
Peak SAR (extrapolated) = 0.161 W/kg

**SAR(1 g) = 0.0894 mW/g; SAR(10 g) = 0.0491 mW/g**

Reference Value = 7.99 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.105 mW/g





Test Laboratory: Advance Data Technology

### **BENQ 56W10 GPRS PCS1900 Dell C600 Bottom Mode 15 Ch 512**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1850.2 MHz**

Communication System: PCS 1900 ; Frequency: 1850.2 MHz ; Duty Cycle: 1:4 ; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5034$  mho/m,  $\epsilon_r = 52.0974$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 12 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 17.5 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.809 mW/g

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

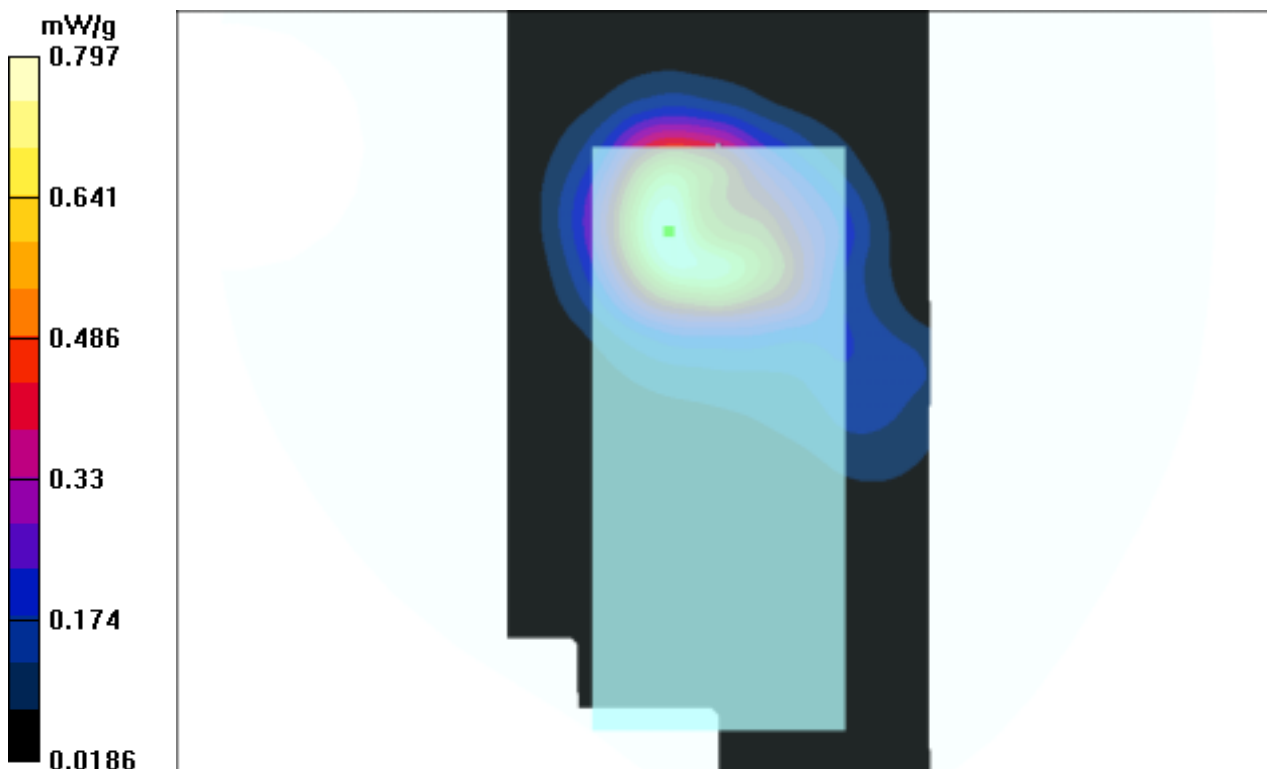
Peak SAR (extrapolated) = 1.51 W/kg

**SAR(1 g) = 0.701 mW/g; SAR(10 g) = 0.412 mW/g**

Reference Value = 17.5 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.797 mW/g



Test Laboratory: Advance Data Technology

## **BENQ 56W10 GPRS PCS1900 Dell C600 Bottom Mode 15 Ch 661**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1880 MHz**

Communication System: PCS 1900 ; Frequency: 1880 MHz ; Duty Cycle: 1:4 ; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.538$  mho/m,  $\epsilon_r = 51.978$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 12 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**Middle Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 15.7 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.795 mW/g

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

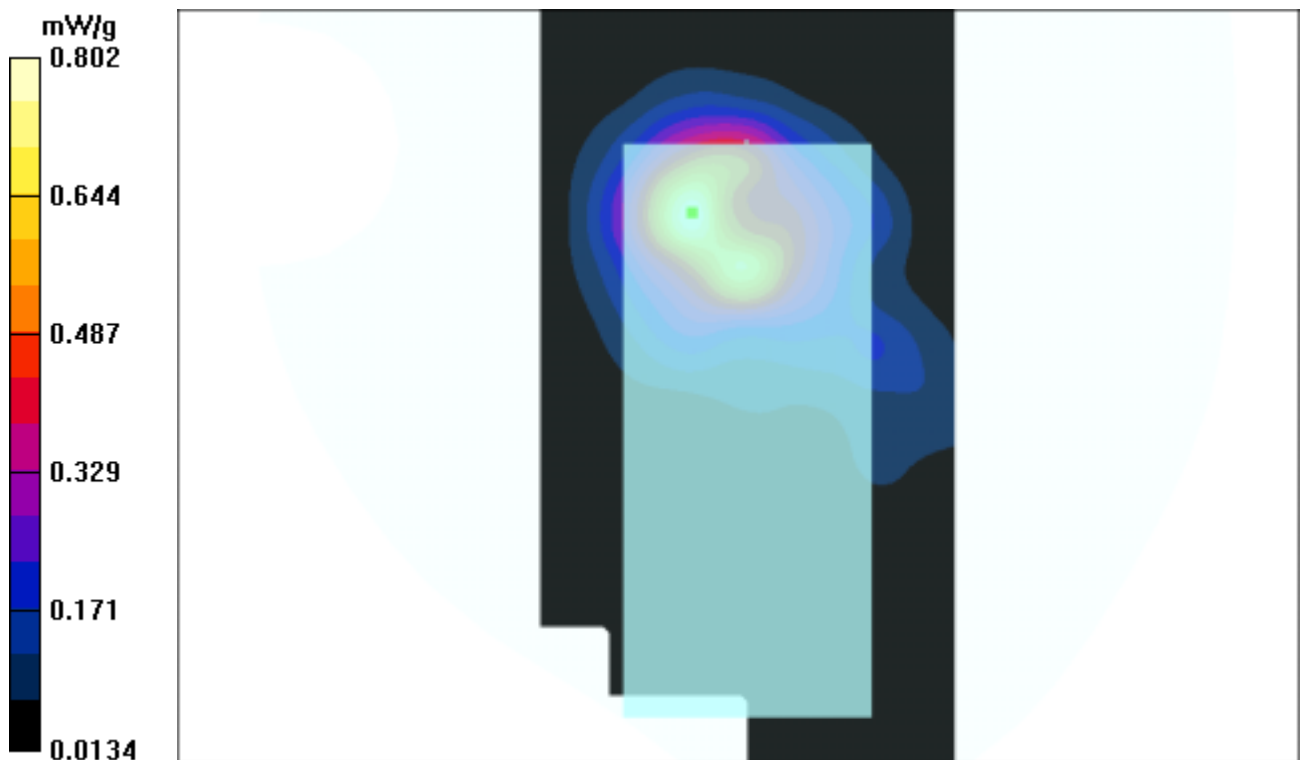
Peak SAR (extrapolated) = 3.49 W/kg

**SAR(1 g) = 0.795 mW/g; SAR(10 g) = 0.383 mW/g**

Reference Value = 15.7 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.802 mW/g



Test Laboratory: Advance Data Technology

### BENQ 56W10 GPRS PCS1900 Dell C600 Bottom Mode 15 Ch 810

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1909.8 MHz**

Communication System: PCS 1900 ; Frequency: 1909.8 MHz ; Duty Cycle: 1:4 ; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5738$  mho/m,  $\epsilon_r = 51.813$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 12 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**High Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 13.5 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.531 mW/g

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

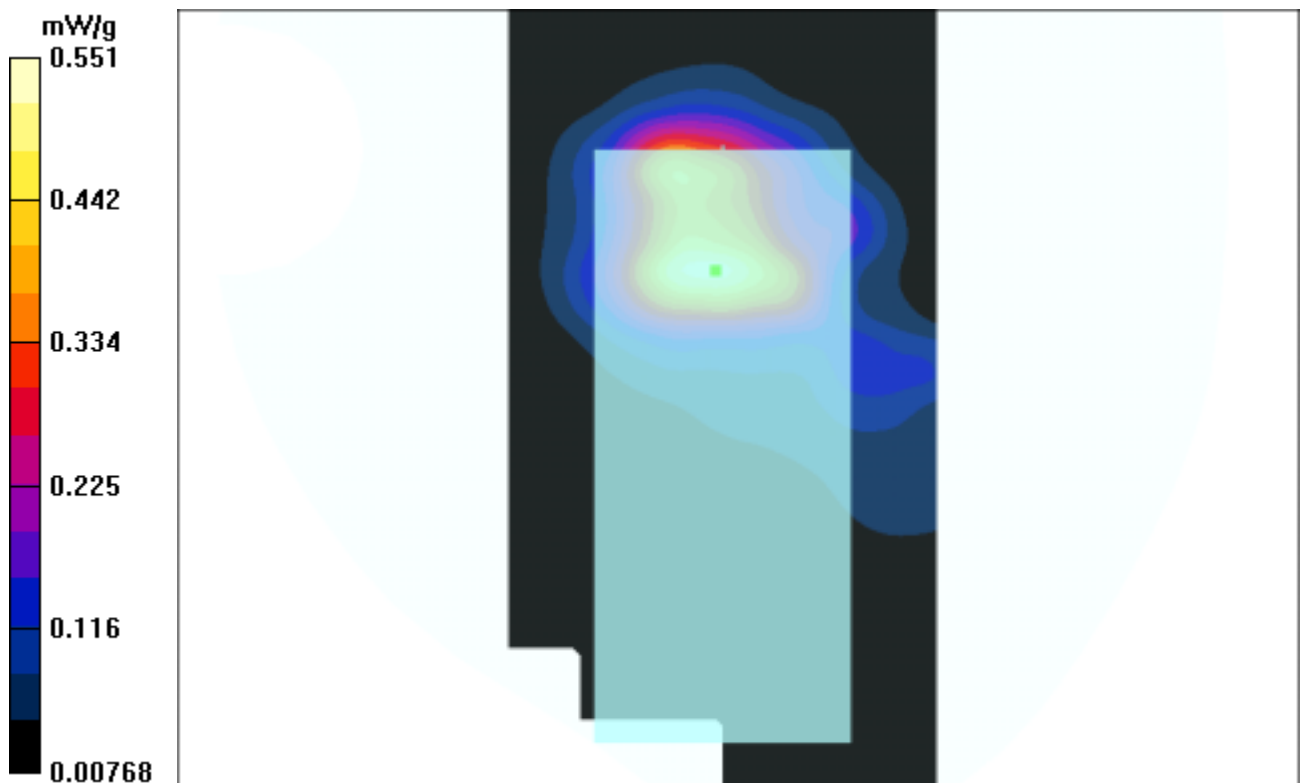
Peak SAR (extrapolated) = 2.39 W/kg

**SAR(1 g) = 0.525 mW/g; SAR(10 g) = 0.256 mW/g**

Reference Value = 13.5 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.551 mW/g



Test Laboratory: Advance Data Technology

### BENQ 56W10 GPRS PCS1900 Dell C600 Tip Mode 16 Ch 512

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1850.2 MHz**

Communication System: PCS 1900 ; Frequency: 1850.2 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5034$  mho/m,  $\epsilon_r = 52.0974$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.5 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.188 mW/g

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

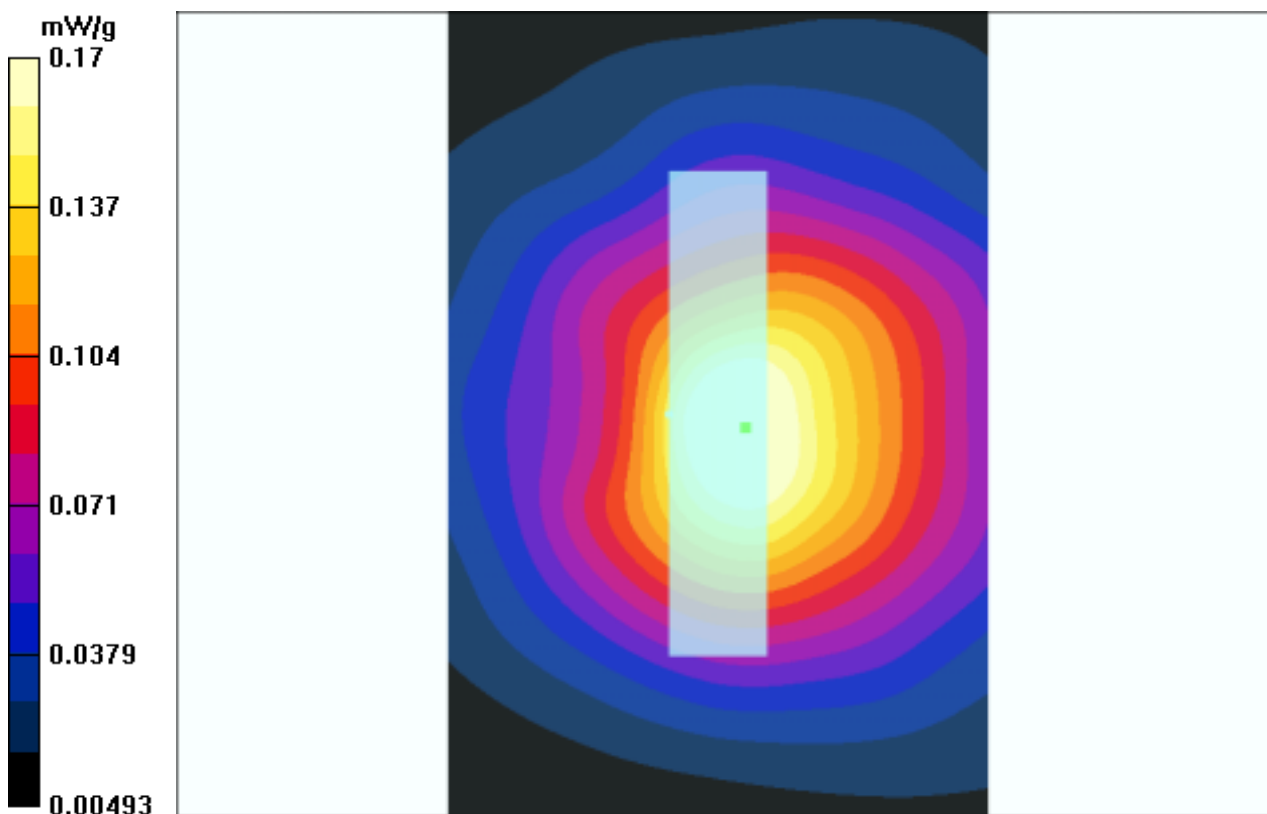
Peak SAR (extrapolated) = 0.335 W/kg

**SAR(1 g) = 0.156 mW/g; SAR(10 g) = 0.095 mW/g**

Reference Value = 10.5 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.17 mW/g



Test Laboratory: Advance Data Technology

## BENQ 56W10 GPRS PCS1900 Dell C600 Tip Mode 16 Ch 661

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1880 MHz**

Communication System: PCS 1900 ; Frequency: 1880 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.538$  mho/m,  $\epsilon_r = 51.978$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Middle Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.4 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.251 mW/g

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

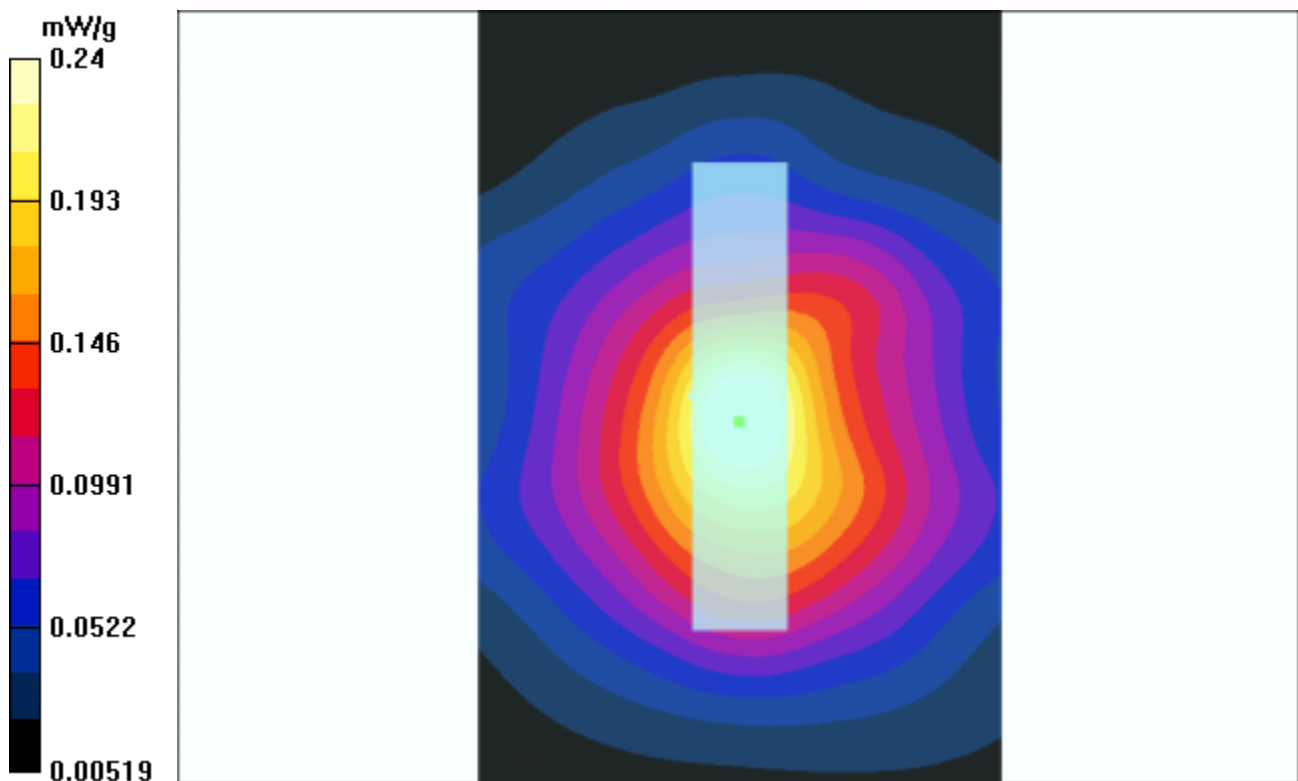
Peak SAR (extrapolated) = 0.563 W/kg

**SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.125 mW/g**

Reference Value = 12.4 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.24 mW/g



Test Laboratory: Advance Data Technology

**BENQ 56W10 GPRS PCS1900 Dell C600 Tip Mode 16 Ch 810**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1909.8 MHz**

Communication System: PCS 1900 ; Frequency: 1909.8 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5738$  mho/m,  $\epsilon_r = 51.813$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**High Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 11.8 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.188 mW/g

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

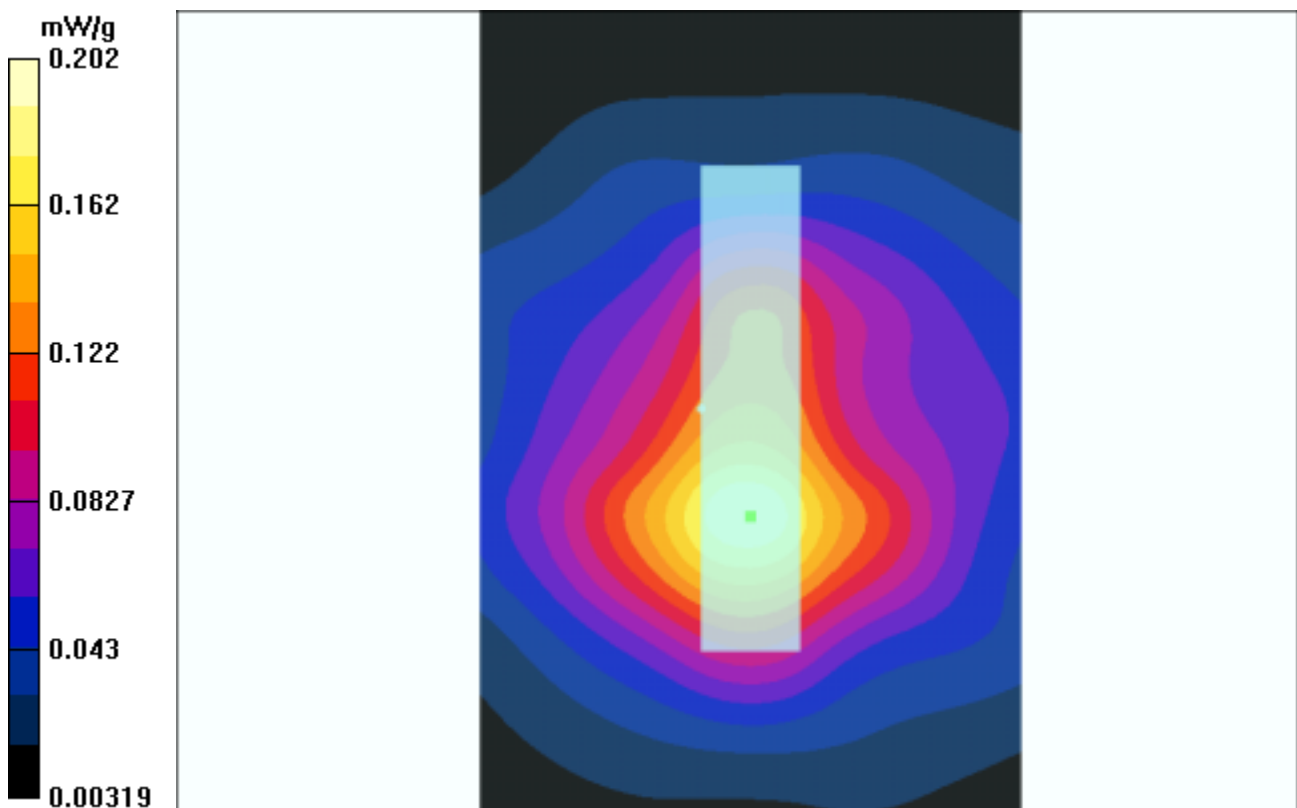
Peak SAR (extrapolated) = 0.605 W/kg

**SAR(1 g) = 0.176 mW/g; SAR(10 g) = 0.101 mW/g**

Reference Value = 11.8 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.202 mW/g



Test Laboratory: Advance Data Technology

### BENQ 56W10 GPRS PCS1900 Dell Inspiron 3800 Bottom Mode 17 Ch 512

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1850.2 MHz**

Communication System: PCS 1900 ; Frequency: 1850.2 MHz ; Duty Cycle: 1:4 ; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5034$  mho/m,  $\epsilon_r = 52.0974$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 11.9 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.511 mW/g

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

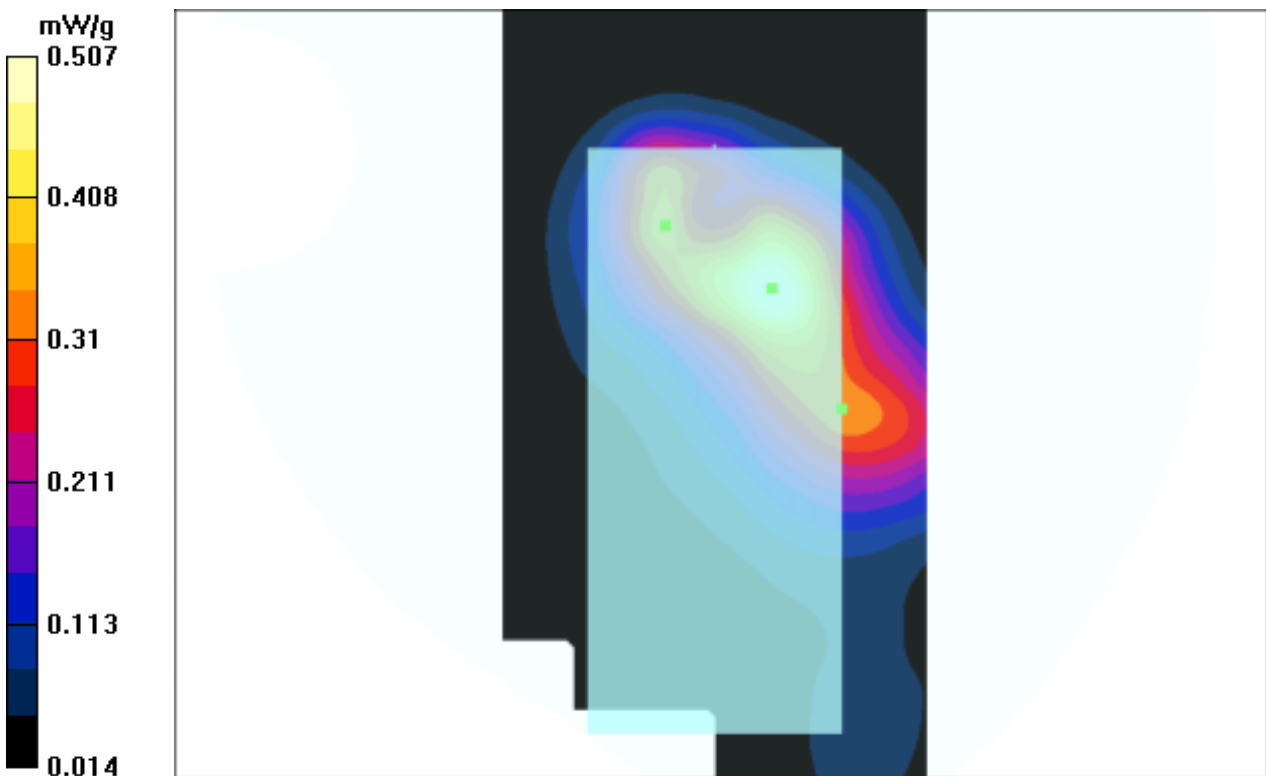
Peak SAR (extrapolated) = 0.708 W/kg

**SAR(1 g) = 0.472 mW/g; SAR(10 g) = 0.283 mW/g**

Reference Value = 11.9 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.507 mW/g



Test Laboratory: Advance Data Technology

## **BENQ 56W10 GPRS PCS1900 Dell Inspiron 3800 Bottom Mode 17 Ch 661**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1880 MHz**

Communication System: PCS 1900 ; Frequency: 1880 MHz ; Duty Cycle: 1:4 ; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.538$  mho/m,  $\epsilon_r = 51.978$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**Middle Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 13.1 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.499 mW/g

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

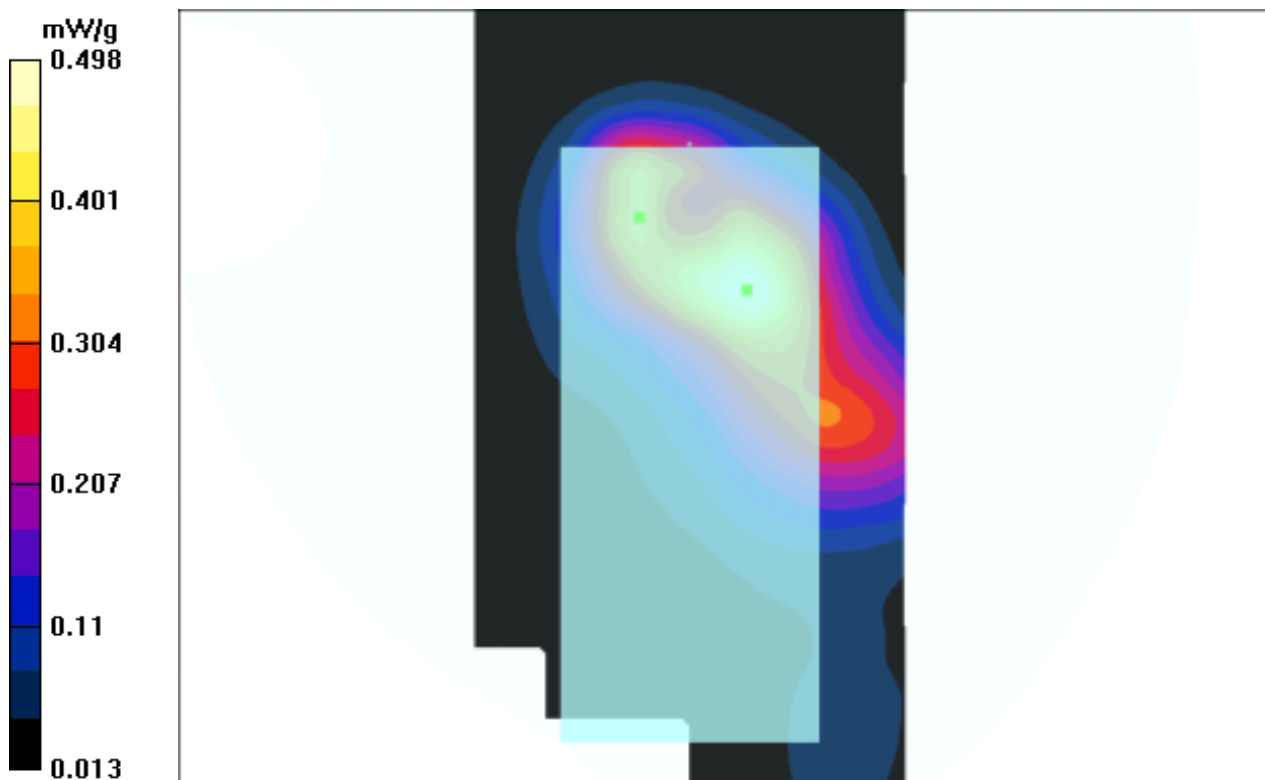
Peak SAR (extrapolated) = 0.687 W/kg

**SAR(1 g) = 0.463 mW/g; SAR(10 g) = 0.273 mW/g**

Reference Value = 13.1 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.498 mW/g





Test Laboratory: Advance Data Technology

## **BENQ 56W10 GPRS PCS1900 Dell Inspiron 3800 Bottom Mode 17 Ch 810**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1909.8 MHz**

Communication System: PCS 1900 ; Frequency: 1909.8 MHz ; Duty Cycle: 1:4 ; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5738$  mho/m,  $\epsilon_r = 51.813$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**High Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.4 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.375 mW/g

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

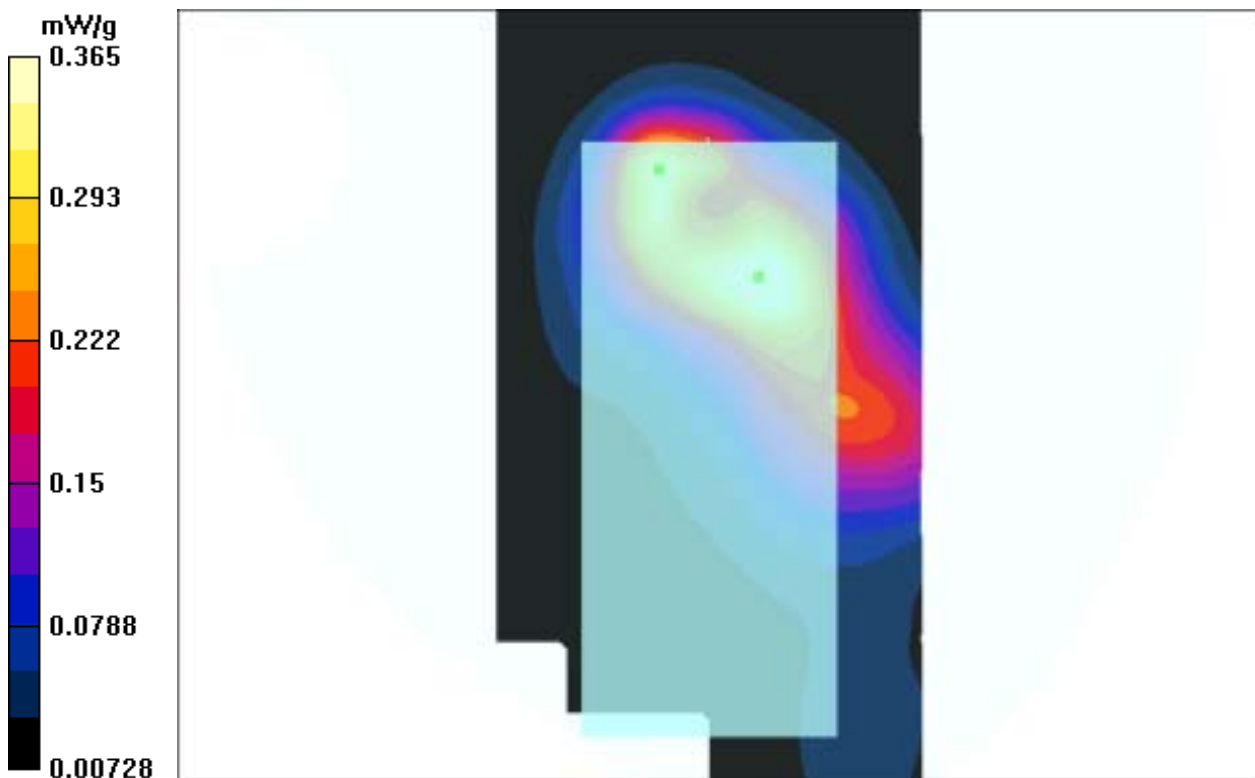
Peak SAR (extrapolated) = 0.52 W/kg

**SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.184 mW/g**

Reference Value = 12.4 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.365 mW/g



Test Laboratory: Advance Data Technology

### **BENQ 56W10 GPRS PCS1900 Dell Inspiron 3800 Tip Mode 18 Ch 512**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1850.2 MHz**

Communication System: PCS 1900 ; Frequency: 1850.2 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5034$  mho/m,  $\epsilon_r = 52.0974$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 8.75 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.101 mW/g

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

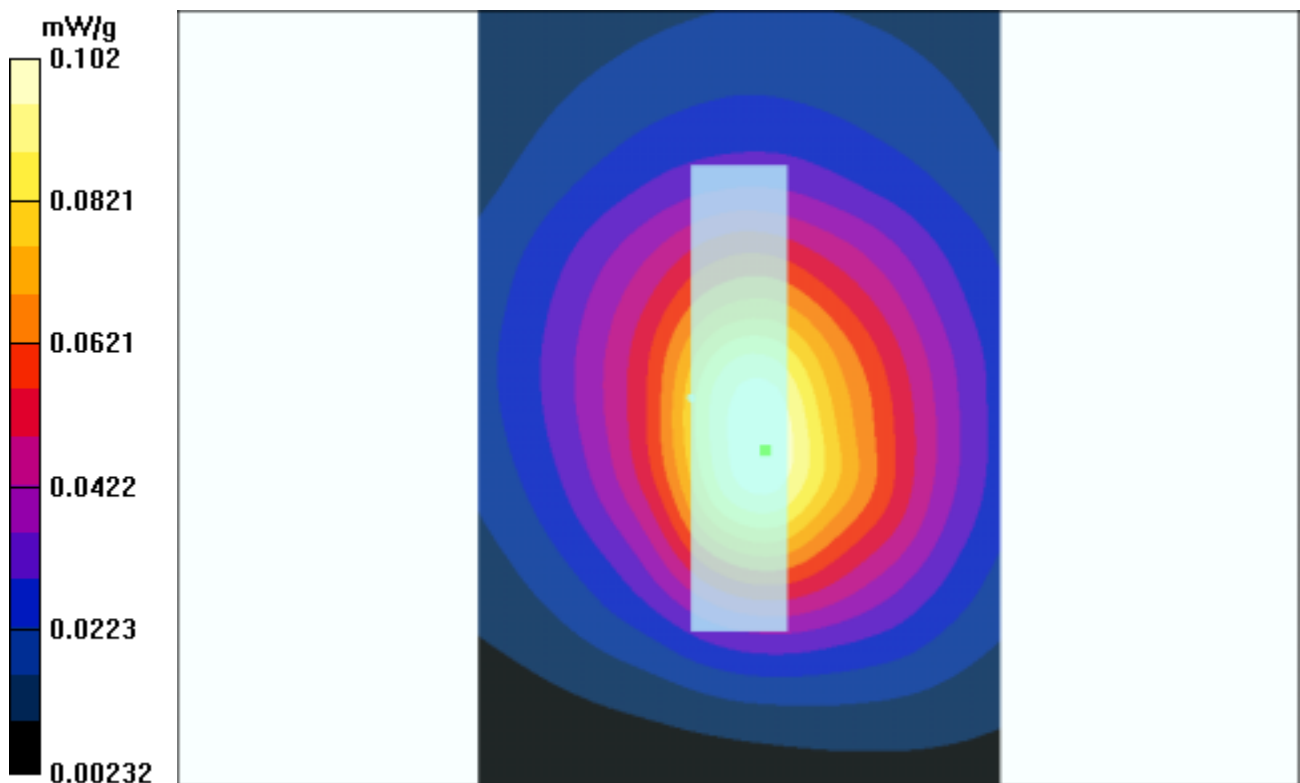
Peak SAR (extrapolated) = 0.147 W/kg

**SAR(1 g) = 0.0927 mW/g; SAR(10 g) = 0.054 mW/g**

Reference Value = 8.75 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.102 mW/g



Test Laboratory: Advance Data Technology

## **BENQ 56W10 GPRS PCS1900 Dell Inspiron 3800 Tip Mode 18 Ch 661**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1880 MHz**

Communication System: PCS 1900 ; Frequency: 1880 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.538$  mho/m,  $\epsilon_r = 51.978$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Middle Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 8.88 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.114 mW/g

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

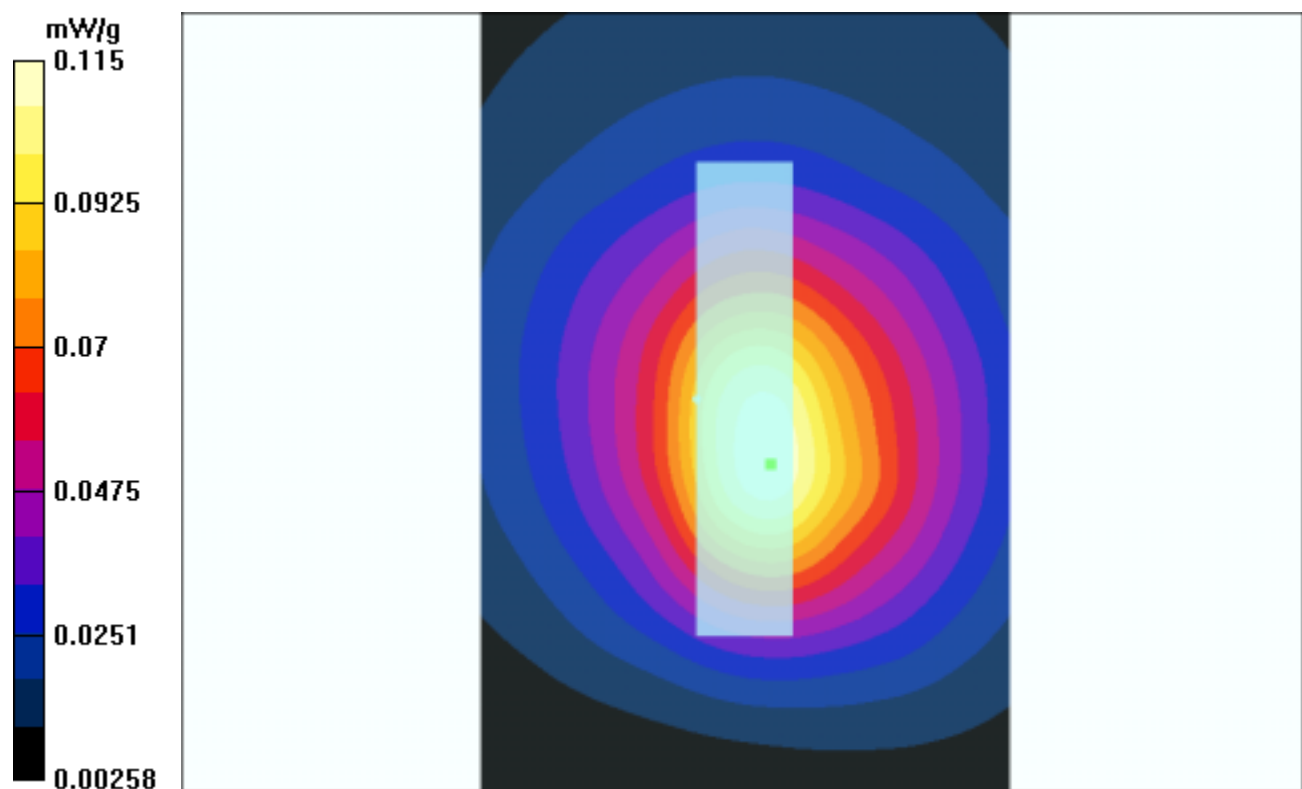
Peak SAR (extrapolated) = 0.172 W/kg

**SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.0605 mW/g**

Reference Value = 8.88 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.115 mW/g



Test Laboratory: Advance Data Technology

**BENQ 56W10 GPRS PCS1900 Dell Inspiron 3800 Tip Mode 18 Ch 810**

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1909.8 MHz**

Communication System: PCS 1900 ; Frequency: 1909.8 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5738$  mho/m,  $\epsilon_r = 51.813$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 15 mm (The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**High Channel/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 8.27 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.104 mW/g

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

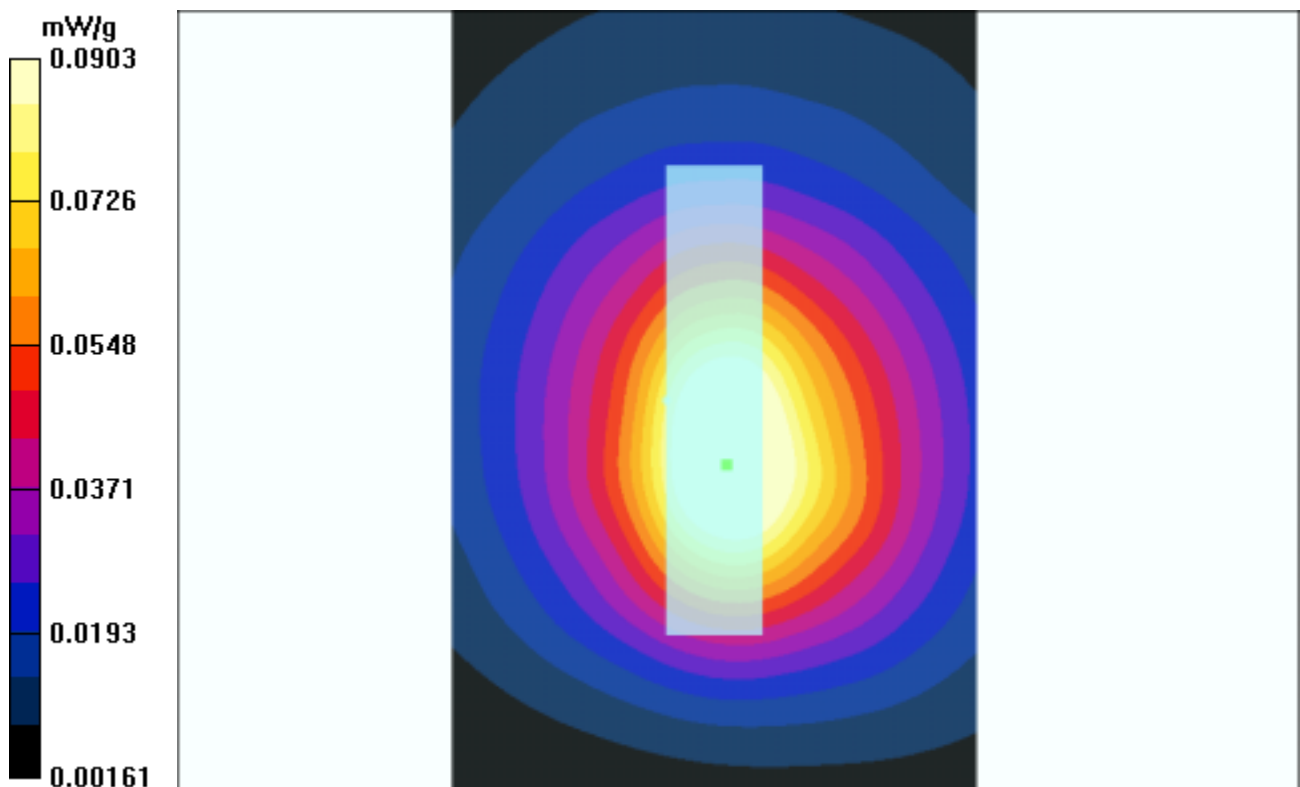
Peak SAR (extrapolated) = 0.136 W/kg

**SAR(1 g) = 0.0825 mW/g; SAR(10 g) = 0.0467 mW/g**

Reference Value = 8.27 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.0903 mW/g



Test Laboratory: Advance Data Technology

### BENQ 56W10 11b Antenna 2 Compaq N800C Bottom Mode 3 Ch 1

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2412 MHz**

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.8817$  mho/m,  $\epsilon_r = 53.5398$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11 mm (The bottom of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.61 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.285 mW/g

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

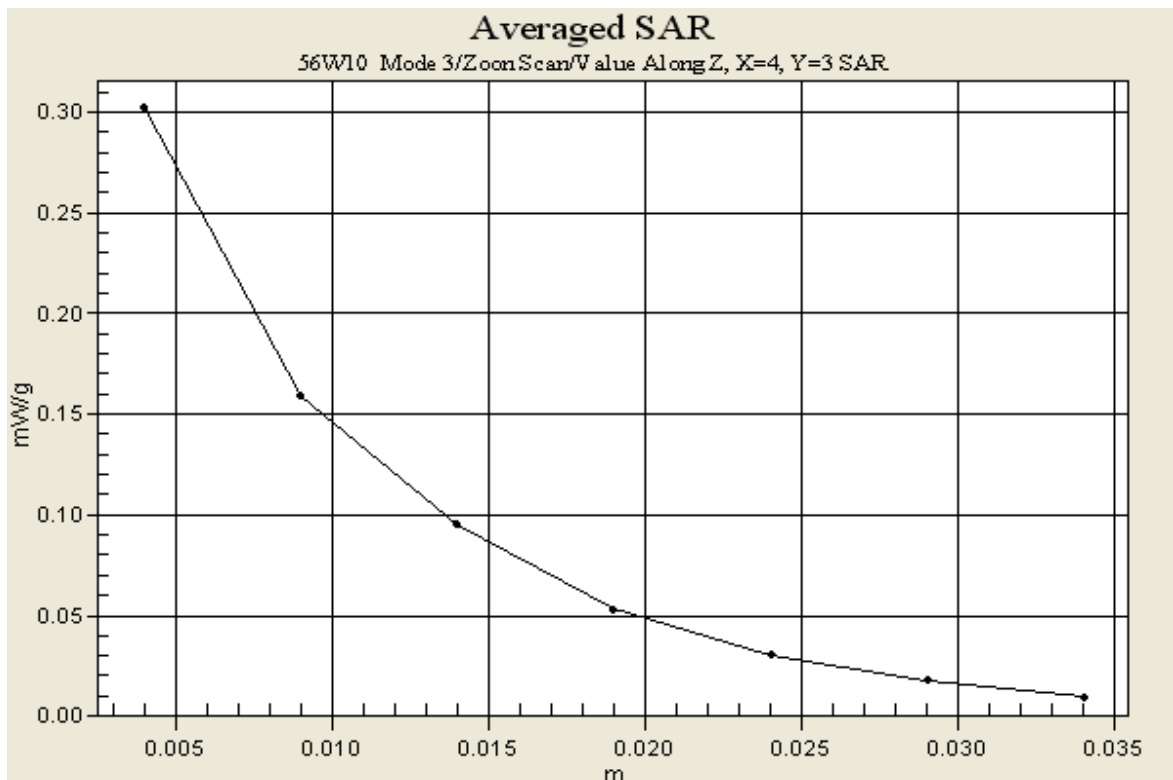
Peak SAR (extrapolated) = 0.737 W/kg

SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.156 mW/g

Reference Value = 9.61 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.302 mW/g



Test Laboratory: Advance Data Technology

### BENQ 56W10 11b Antenna 2 Dell C600 Bottom Mode 7 Ch 1

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2412 MHz**

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.8817$  mho/m,  $\epsilon_r = 53.5398$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 12 mm (The bottom of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.68 V/m

Power Drift = 0.09 dB

Maximum value of SAR = 0.345 mW/g

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

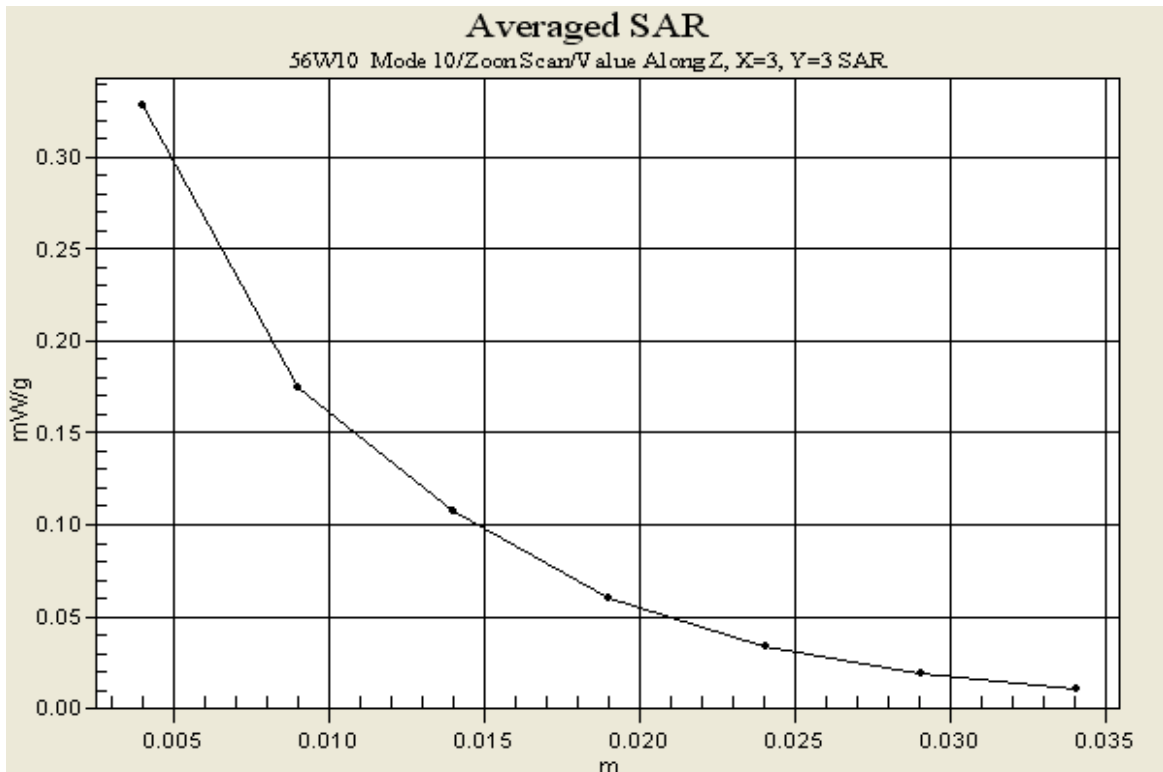
Peak SAR (extrapolated) = 0.646 W/kg

SAR(1 g) = 0.321 mW/g; SAR(10 g) = 0.177 mW/g

Reference Value = 9.68 V/m

Power Drift = 0.09 dB

Maximum value of SAR = 0.328 mW/g



Test Laboratory: Advance Data Technology

### BENQ 56W10 11b Antenna 1 Dell Inspiron 3800 Bottom Mode 9 Ch 1

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2412 MHz**

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK  
Medium: MSL2450 ( $\sigma = 1.8817$  mho/m,  $\epsilon_r = 53.5398$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11 mm (The bottom of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 21.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 5.32 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 0.328 mW/g

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

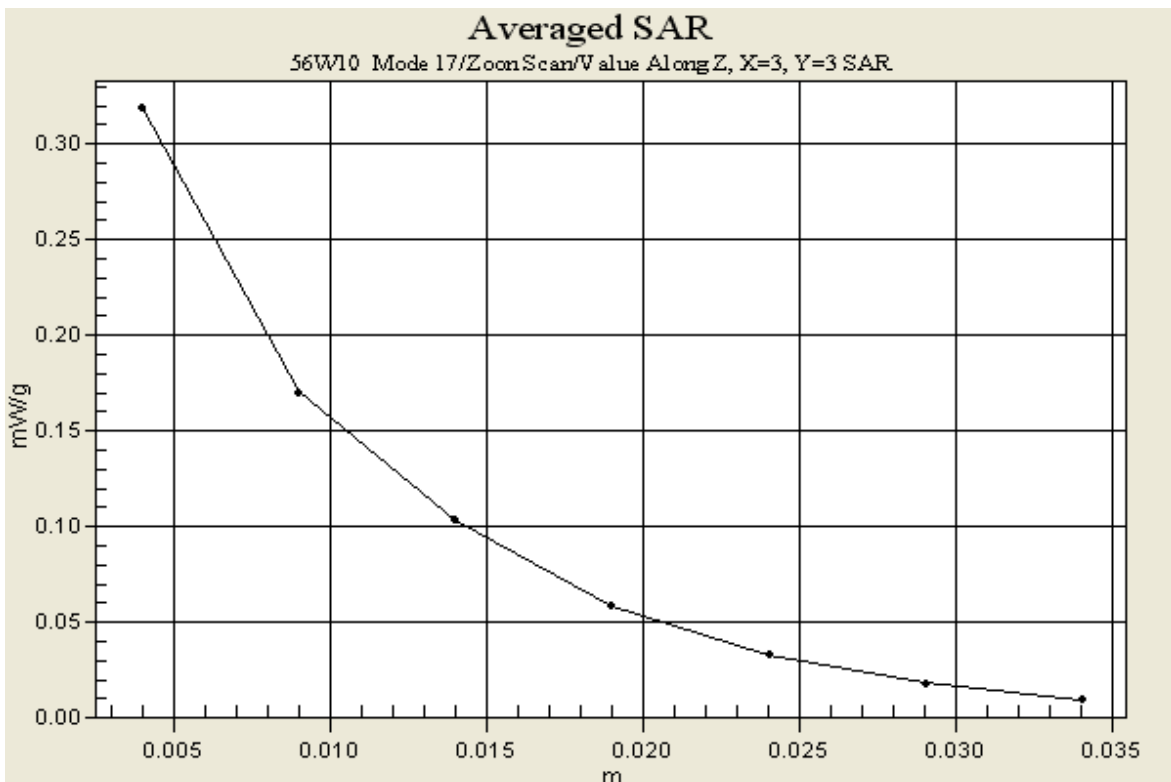
Peak SAR (extrapolated) = 0.614 W/kg

SAR(1 g) = 0.306 mW/g; SAR(10 g) = 0.168 mW/g

Reference Value = 5.32 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 0.318 mW/g



Test Laboratory: Advance Data Technology

### BENQ 56W10 GPRS PCS1900 Compaq N800C Bottom Mode 13 Ch 661

**DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1880 MHz**

Communication System: PCS 1900 ; Frequency: 1880 MHz ; Duty Cycle: 1:4 ; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.538$  mho/m,  $\epsilon_r = 51.978$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**Middle Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.3 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.457 mW/g

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

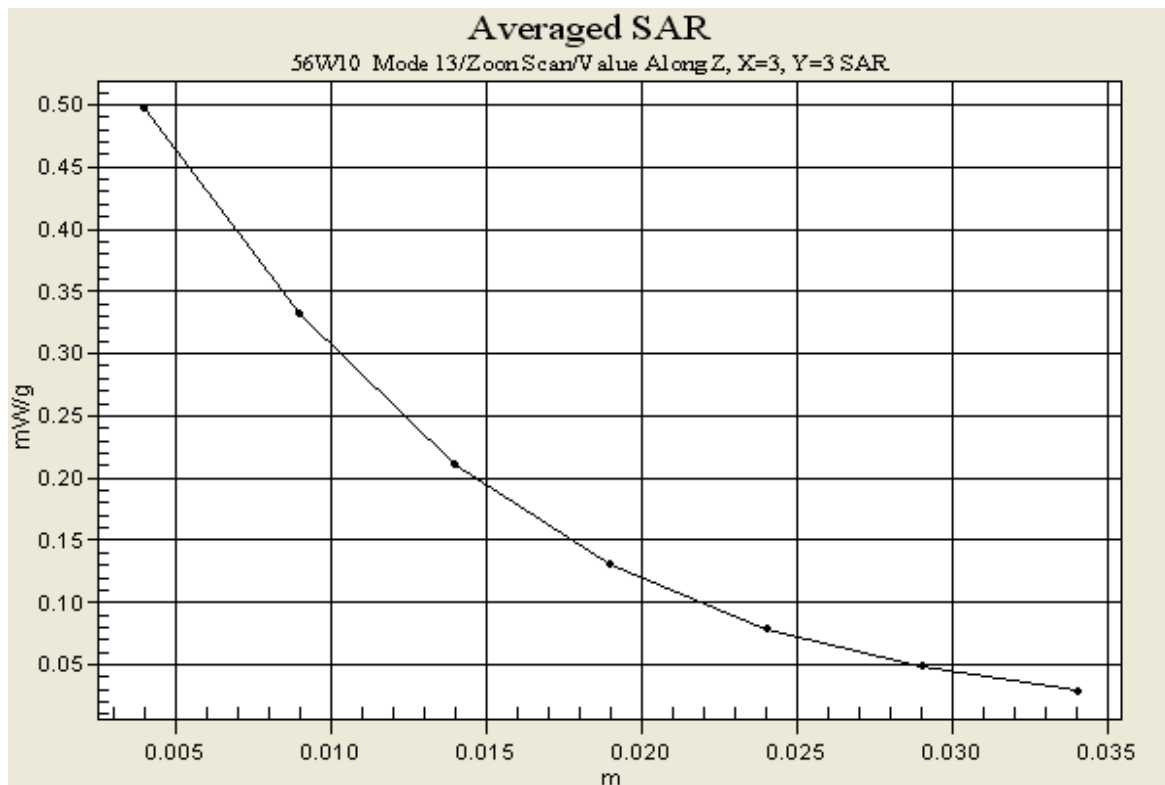
Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.459 mW/g; SAR(10 g) = 0.263 mW/g

Reference Value = 12.3 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.497 mW/g





Test Laboratory: Advance Data Technology

**BENQ 56W10 GPRS PCS1900 Dell C600 Bottom Mode 15 Ch 661****DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1880 MHz**

Communication System: PCS 1900 ; Frequency: 1880 MHz ; Duty Cycle: 1:4 ; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.538$  mho/m,  $\epsilon_r = 51.978$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**Middle Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 15.7 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.795 mW/g

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

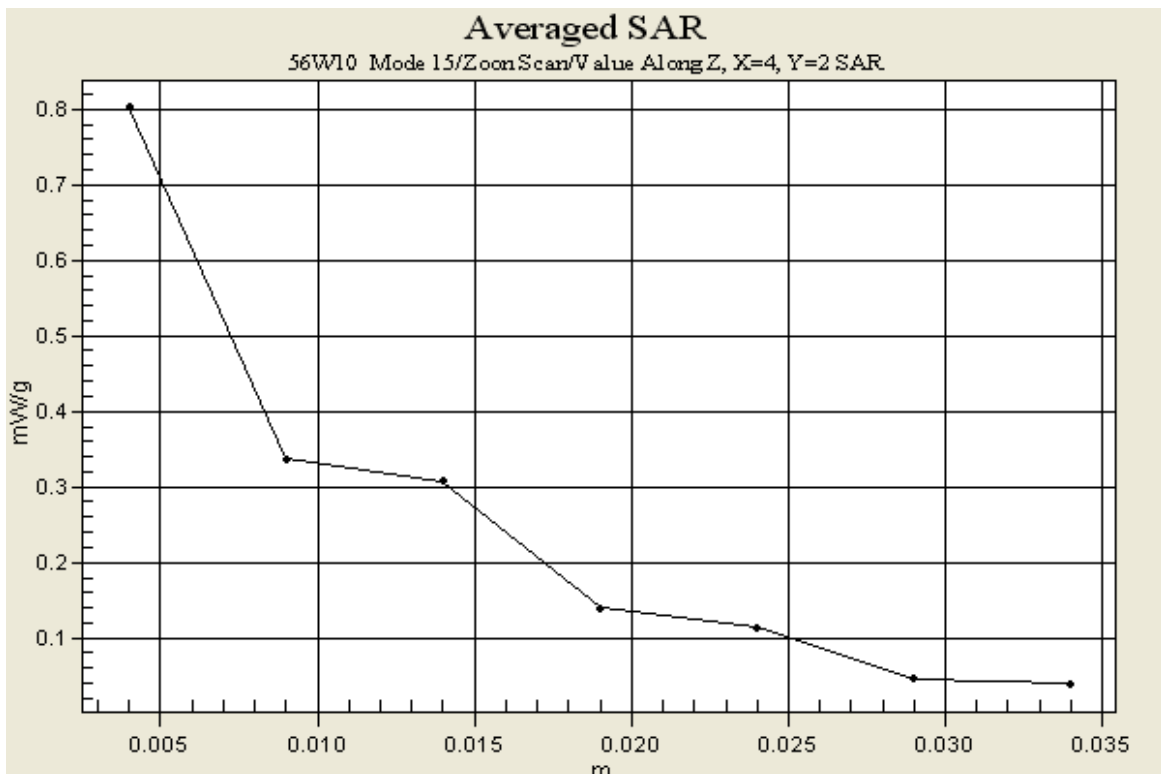
Peak SAR (extrapolated) = 3.49 W/kg

SAR(1 g) = 0.795 mW/g; SAR(10 g) = 0.383 mW/g

Reference Value = 15.7 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.802 mW/g



Test Laboratory: Advance Data Technology

**BENQ 56W10 GPRS PCS1900 Dell Inspiron 3800 Bottom Mode 17 Ch 512****DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1850.2 MHz**

Communication System: PCS 1900 ; Frequency: 1850.2 MHz ; Duty Cycle: 1:4 ; Modulation type: GMSK

Medium: MSL1900 ( $\sigma = 1.5034$  mho/m,  $\epsilon_r = 52.0974$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2003/8/15
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47 ; Postprocessing SW: SEMCAD, V1.6 Build 115

**Low Channel/Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 11.9 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.511 mW/g

**Low Channel 2/Zoon Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

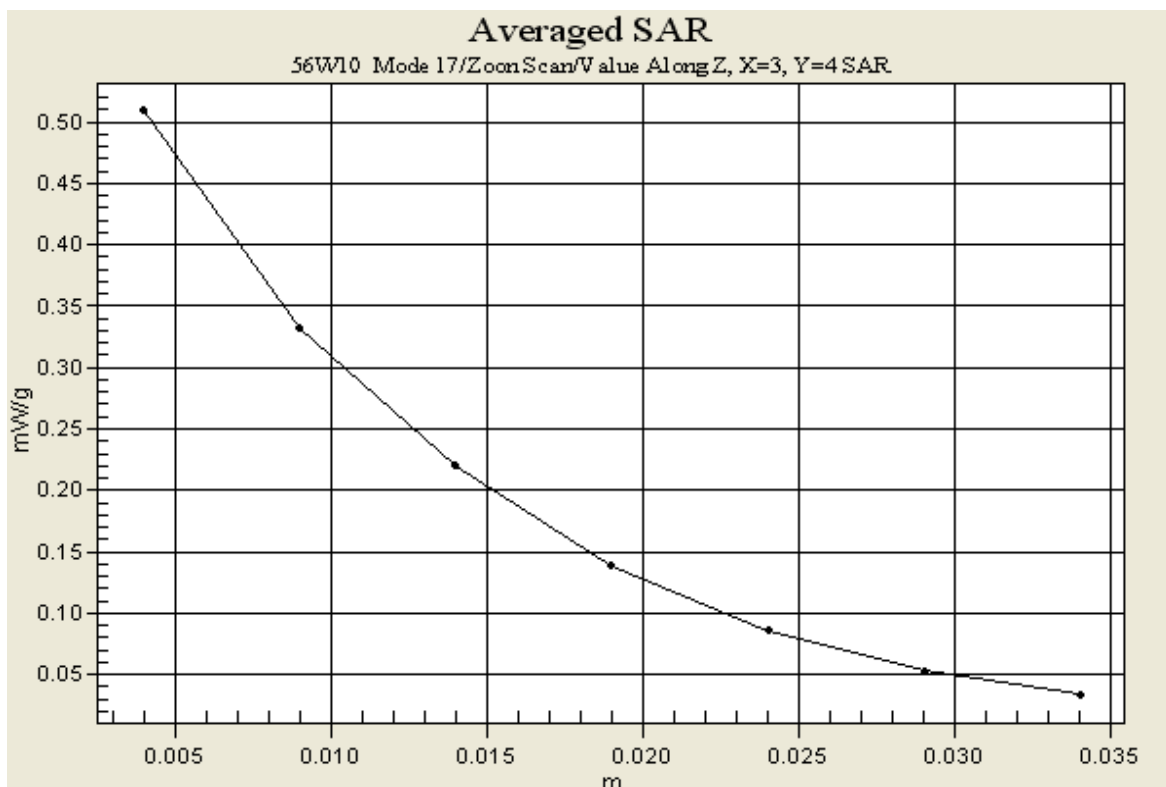
Peak SAR (extrapolated) = 0.708 W/kg

SAR(1 g) = 0.472 mW/g; SAR(10 g) = 0.283 mW/g

Reference Value = 11.9 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.507 mW/g



# A4 : SYSTEM VALIDATION

Date/Time: 08/09/04 08:37:42

Test Laboratory: Advance Data Technology

## System Validation Check-MSL 2450MHz

**DUT: Dipole 2450 MHz ; Type: D2450V2 ; Test Channel Frequency: 2450 MHz**

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW  
Medium: MSL2450 ( $\sigma = 1.9353$  mho/m,  $\epsilon_r = 53.4676$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm  
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom)Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.4, 4.4, 4.4) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**d=10mm, Pin=250mW/Area Scan (6x6x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 92.2 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 17 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

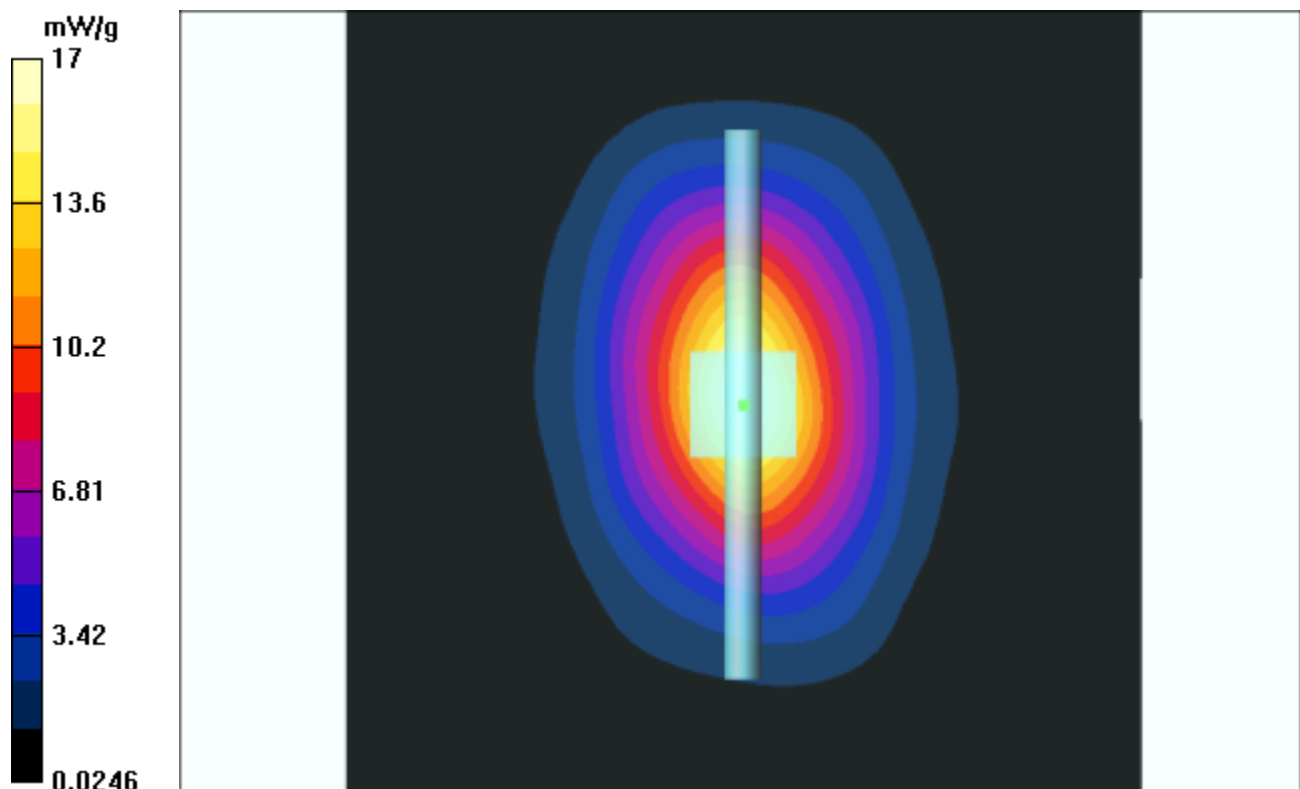
Peak SAR (extrapolated) = 29.6 W/kg

SAR(1 g) = 13.2 mW/g; SAR(10 g) = 6.22mW/g

Reference Value = 92.2 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 14.6 mW/g



Test Laboratory: Advance Data Technology

**System Validation Check MSL 1900MHz****DUT: Dipole 1900 MHz ; Type: D1900V2 ; Test Channel Frequency: 1900 MHz**

Communication System: CW ; Frequency: 1900 MHz; Duty Cycle: 1:1; Modulation type: CW  
 Medium: MSL1900 ( $\sigma = 1.5618$  mho/m,  $\epsilon_r = 51.8655$ ,  $\rho = 1000$  kg/m<sup>3</sup>) ; Liquid level : 155mm  
 Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom)Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.8, 4.8, 4.8) ; Calibrated: 2003/8/29
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2003/8/15
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

**d=10mm, Pin=250mW/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Reference Value = 93.9 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 12.1 mW/g

**d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 18.4 W/kg

SAR(1 g) = 10.7 mW/g; SAR(10 g) = 5.57 mW/g

Reference Value = 93.9 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 11.9 mW/g

