

## APPENDIX A: TEST DATA

### Liquid Level Photo

Tissue MSL2450MHz D=150mm



Test Laboratory: Advance Data Technology

## 11b-Ch1-M01

**DUT: Pocket-Sized Mobile Computer ; Type: DL-MEMOR 800-904-416(for WLAN) ; Test Frequency: 2412 MHz**

Communication System: 802.11b ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK  
Medium: MSL2450 Medium parameters used :  $f = 2412$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm  
Phantom section: Flat Section ; Separation distance : 0 mm (The front side of the EUT to the Phantom)  
Antenna type : Printed Antenna ; Air temp. : 23.1 degrees ; Liquid temp. : 22.3 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Low Channel 1/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.793 mW/g

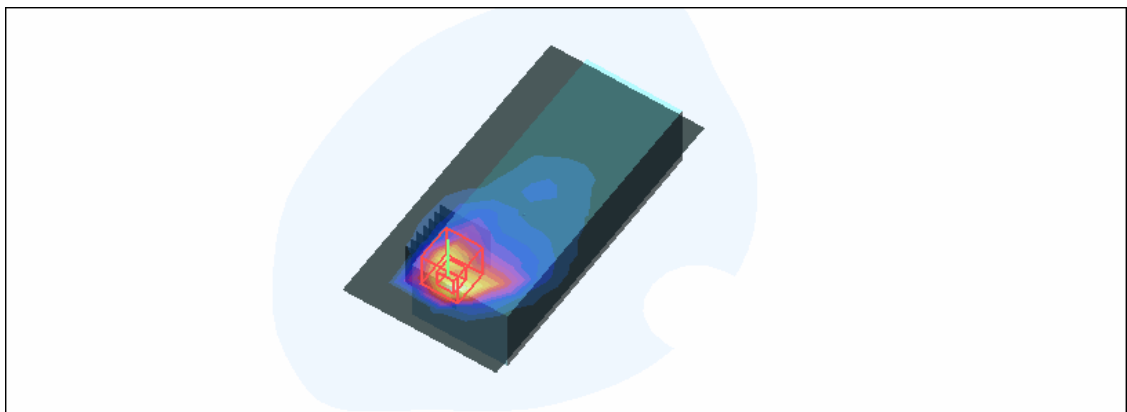
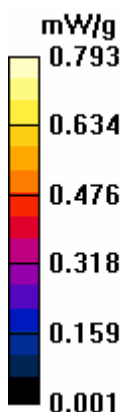
**Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.83 V/m

Peak SAR (extrapolated) = 3.80 W/kg

**SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.484 mW/g**

Maximum value of SAR (measured) = 1.35 mW/g



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## 11b-Ch6-M01

**DUT: Pocket-Sized Mobile Computer ; Type: DL-MEMOR 800-904-416(for WLAN) ; Test Frequency: 2437 MHz**

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK  
Medium: MSL2450 Medium parameters used :  $f = 2437$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm  
Phantom section: Flat Section ; Separation distance : 0 mm (The front side of the EUT to the Phantom)  
Antenna type : Printed Antenna ; Air temp. : 23.1 degrees ; Liquid temp. : 22.3 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Mid Channel 6/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.904 mW/g

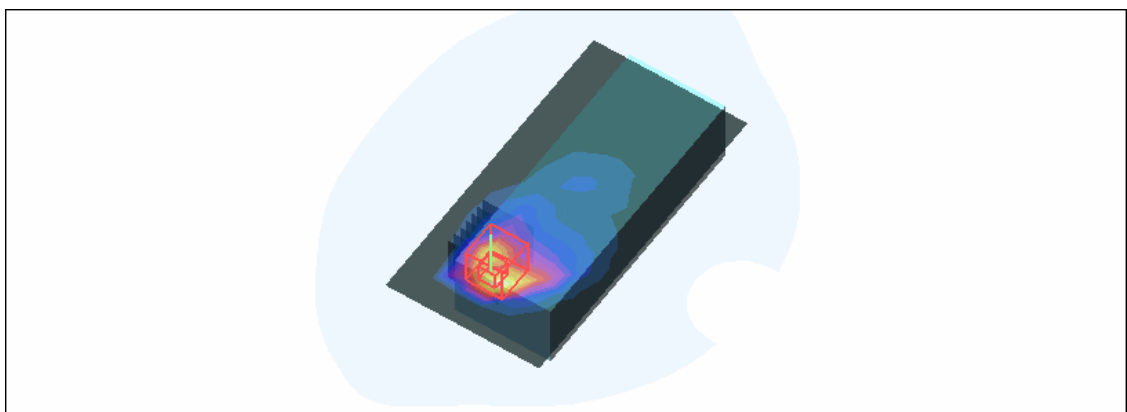
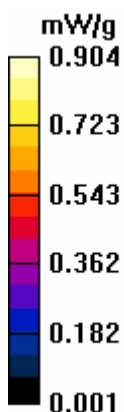
**Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.36 V/m

Peak SAR (extrapolated) = 4.28 W/kg

**SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.516 mW/g**

Maximum value of SAR (measured) = 1.56 mW/g



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**11b-Ch11-M01****DUT: Pocket-Sized Mobile Computer ; Type: DL-MEMOR 800-904-416(for WLAN) ; Test Frequency: 2462 MHz**

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK  
Medium: MSL2450 Medium parameters used :  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 0 mm (The front side of the EUT to the Phantom)

Antenna type : Printed Antenna ; Air temp. : 23.1 degrees ; Liquid temp. : 22.3 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**High Channel 11/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.996 mW/g

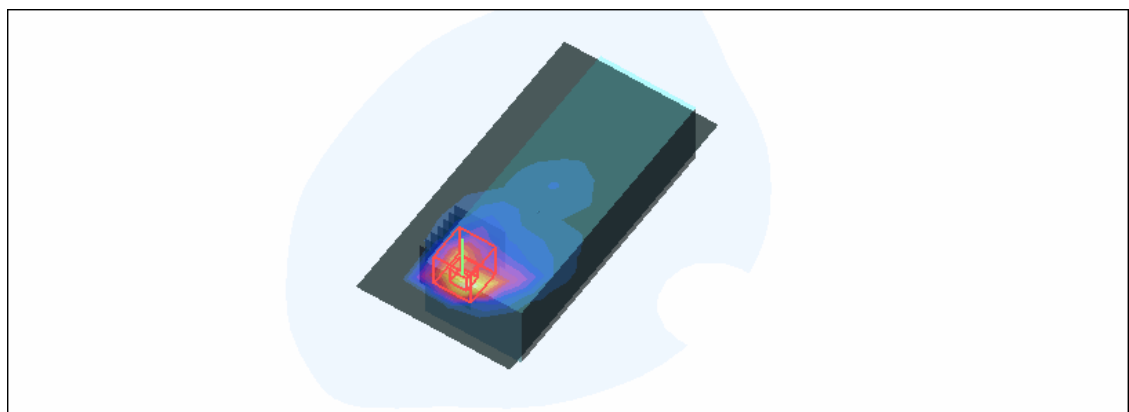
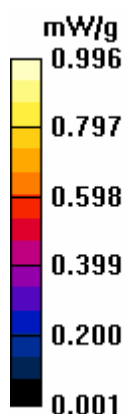
**High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

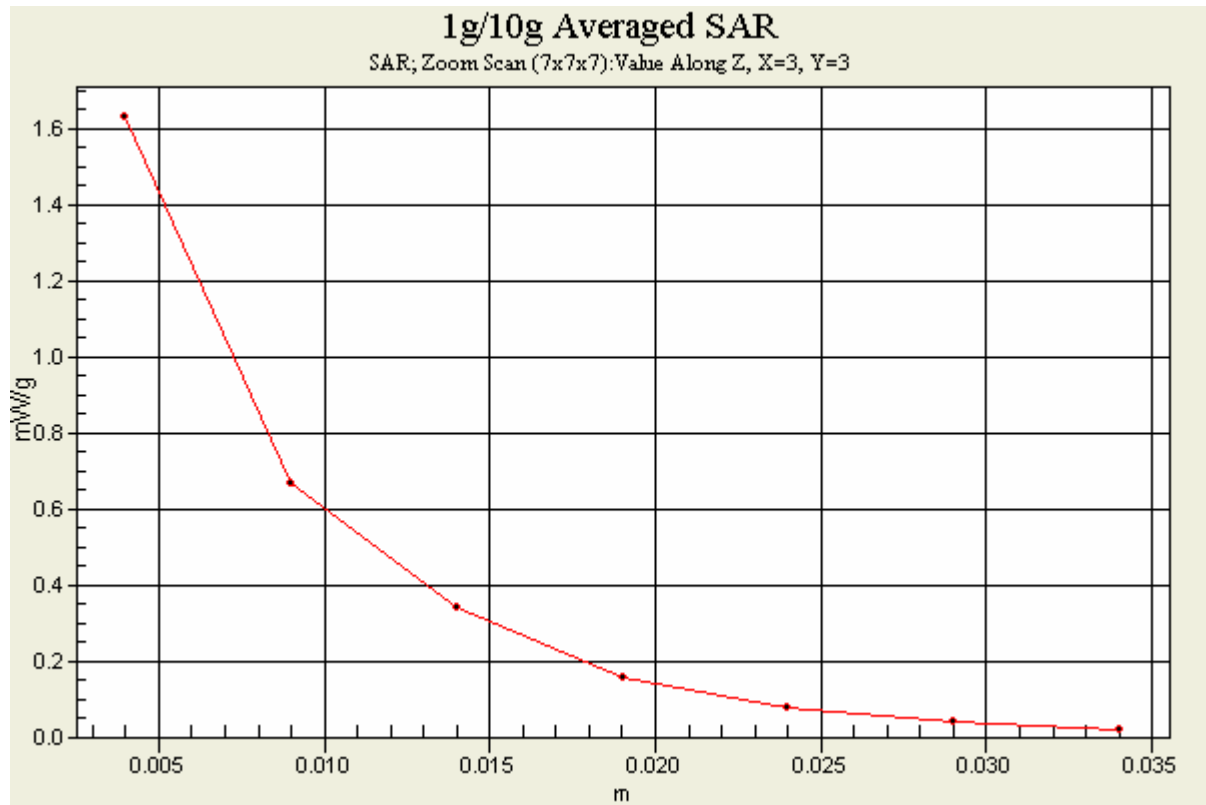
Reference Value = 7.18 V/m

Peak SAR (extrapolated) = 4.20 W/kg

**SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.535 mW/g**

Maximum value of SAR (measured) = 1.63 mW/g





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## 11g-Ch1-M02

**DUT: Pocket-Sized Mobile Computer ; Type: DL-MEMOR 800-904-416(for WLAN) ; Test Frequency: 2412 MHz**

Communication System: 802.11g ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK  
Medium: MSL2450 Medium parameters used :  $f = 2412$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 0 mm (The front side of the EUT to the Phantom)

Antenna type : Printed Antenna ; Air temp. : 23.1 degrees ; Liquid temp. : 22.3 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**Low Channel 1/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.354 mW/g

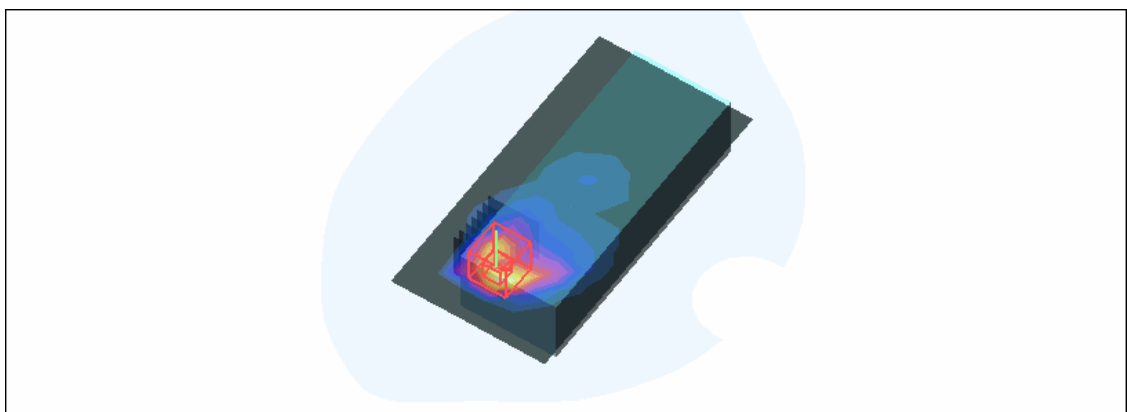
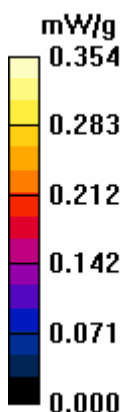
**Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.35 V/m

Peak SAR (extrapolated) = 1.51 W/kg

**SAR(1 g) = 0.514 mW/g; SAR(10 g) = 0.200 mW/g**

Maximum value of SAR (measured) = 0.612 mW/g



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**11b-Ch11-Large bat-M03****DUT: Pocket-Sized Mobile Computer ; Type: DL-MEMOR 800-904-416(for WLAN) ; Test Frequency: 2462 MHz**

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK  
Medium: MSL2450 Medium parameters used :  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm  
Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
Antenna type : Printed Antenna ; Air temp. : 23.1 degrees ; Liquid temp. : 22.3 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

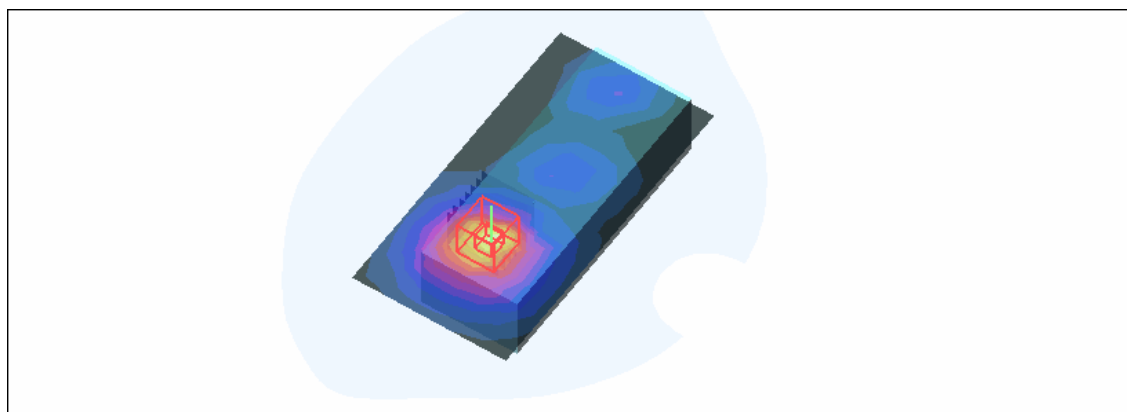
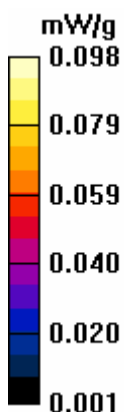
**High Channel 11/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.093 mW/g**High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.68 V/m

Peak SAR (extrapolated) = 0.215 W/kg

**SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.049 mW/g**

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



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**11b-Ch11-Alkaine bat-M04****DUT: Pocket-Sized Mobile Computer ; Type: DL-MEMOR 800-904-416(for WLAN) ; Test Frequency: 2462 MHz**

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK  
Medium: MSL2450 Medium parameters used :  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm  
Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
Antenna type : Printed Antenna ; Air temp. : 23.1 degrees ; Liquid temp. : 22.3 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

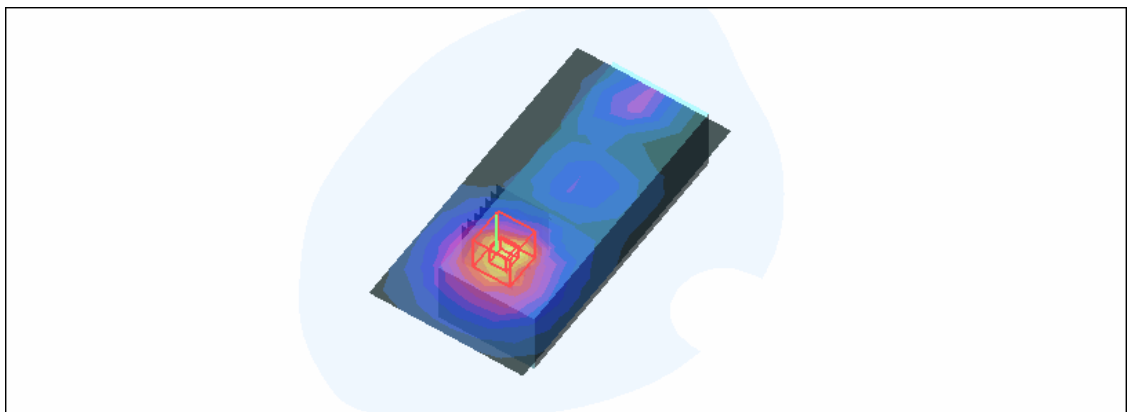
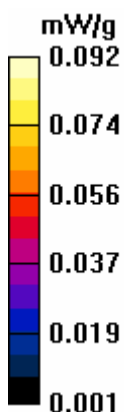
**High Channel 11/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.082 mW/g**High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.60 V/m

Peak SAR (extrapolated) = 0.204 W/kg

**SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.045 mW/g**

Maximum value of SAR (measured) = 0.092 mW/g





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## 11b-Ch11-Std bat-M05

**DUT: Pocket-Sized Mobile Computer ; Type: DL-MEMOR 800-904-416(for WLAN) ; Test Frequency: 2462 MHz**

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK  
Medium: MSL2450 Medium parameters used :  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm  
Phantom section: Flat Section ; Separation distance : 0 mm (The bottom side of the EUT to the Phantom)  
Antenna type : Printed Antenna ; Air temp. : 23.1 degrees ; Liquid temp. : 22.3 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**High Channel 11/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.088 mW/g

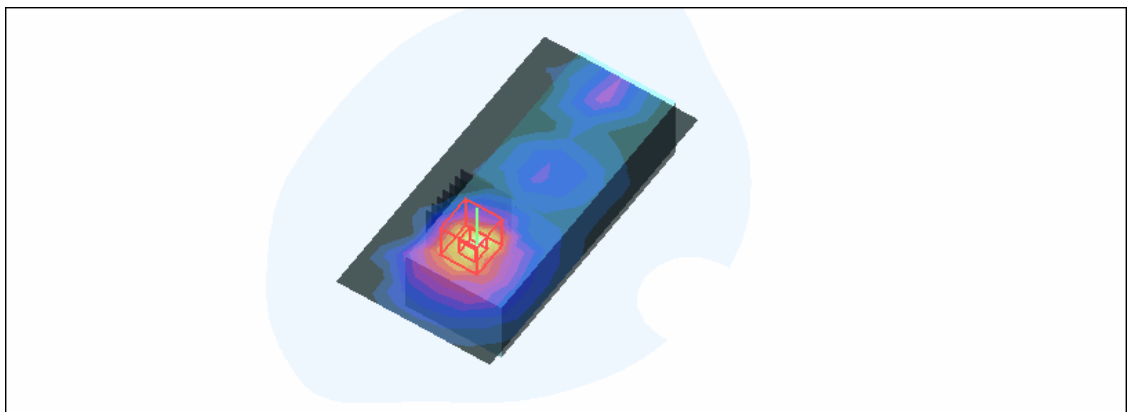
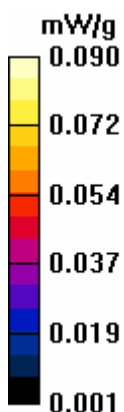
**High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.68 V/m

Peak SAR (extrapolated) = 0.165 W/kg

**SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.043 mW/g**

Maximum value of SAR (measured) = 0.090 mW/g



Test Laboratory: Advance Data Technology

## 11b-Ch11-Alkaine bat-M06

**DUT: Pocket-Sized Mobile Computer ; Type: DL-MEMOR 800-904-416(for WLAN) ; Test Frequency: 2462 MHz**

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK  
Medium: MSL2450 Medium parameters used :  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm  
Phantom section: Flat Section ; Separation distance : 0 mm (The front side of the EUT to the Phantom)  
Antenna type : Printed Antenna ; Air temp. : 23.1 degrees ; Liquid temp. : 22.3 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

**High Channel 11/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.875 mW/g

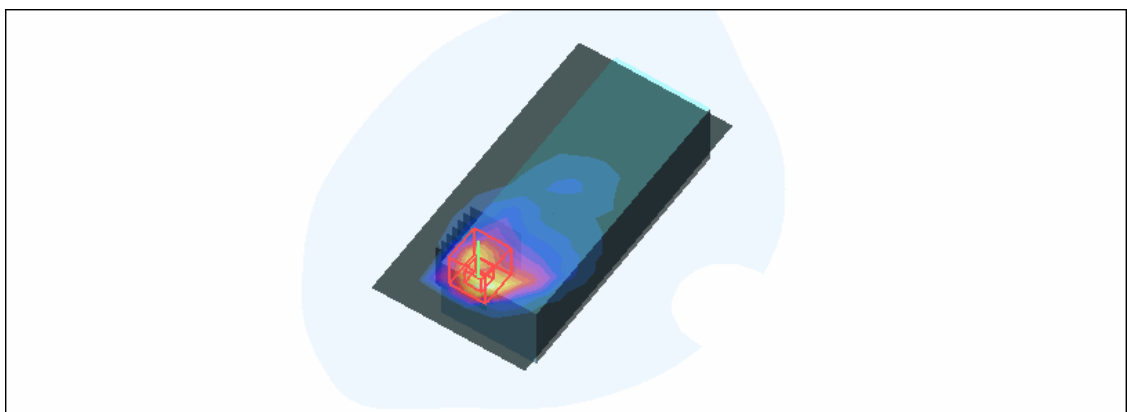
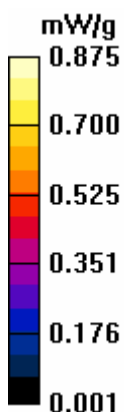
**High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.06 V/m

Peak SAR (extrapolated) = 4.14 W/kg

**SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.519 mW/g**

Maximum value of SAR (measured) = 1.56 mW/g



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**11b-Ch11-Std bat-M07****DUT: Pocket-Sized Mobile Computer ; Type: DL-MEMOR 800-904-416(for WLAN) ; Test Frequency: 2462 MHz**

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK  
Medium: MSL2450 Medium parameters used :  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm  
Phantom section: Flat Section ; Separation distance : 0 mm (The front side of the EUT to the Phantom)  
Antenna type : Printed Antenna ; Air temp. : 23.1 degrees ; Liquid temp. : 22.3 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2007/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53 ; Postprocessing SW: SEMCAD, V1.8 Build 172

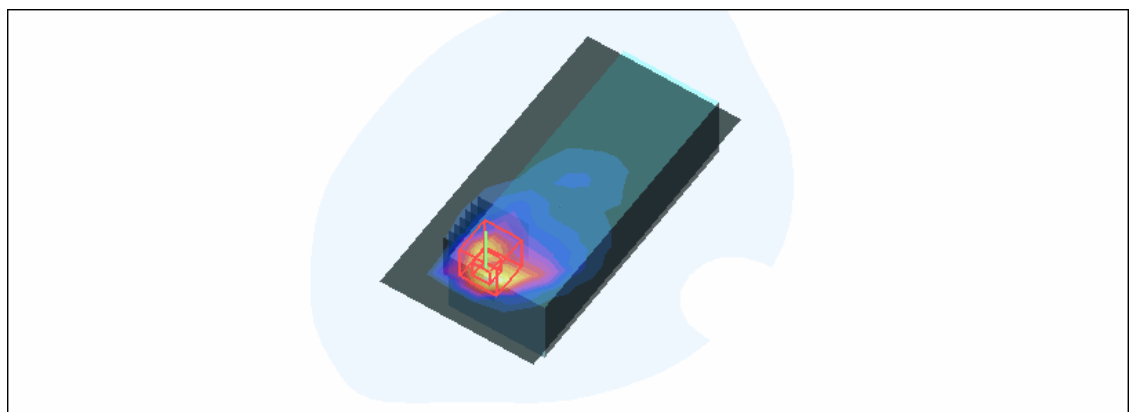
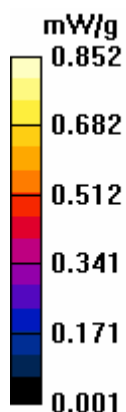
**High Channel 11/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.852 mW/g**High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.01 V/m

Peak SAR (extrapolated) = 4.03 W/kg

**SAR(1 g) = 1.31 mW/g; SAR(10 g) = 0.505 mW/g**

Maximum value of SAR (measured) = 1.52 mW/g



Test Laboratory: Advance Data Technology

## System Validation Check-MSL 2450MHz

**DUT: Dipole 2450 MHz ; Type: D2450V2 ; Serial: 737 ; Test Frequency: 2450 MHz**

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW  
Medium: MSL2450; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Liquid level : 150 mm  
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23.1 degrees ; Liquid temp. : 22.3 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2006/11/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2007/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**d=10mm, Pin=250mW/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 13.9 mW/g

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

Reference Value = 87.6 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 29.7 W/kg

SAR(1 g) = **12.5 mW/g**; SAR(10 g) = 5.62 mW/g

