

Test Laboratory: Advance Data Technology

M275 Mode 8 Auxiliary Antenna

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2437 MHz

Communication System: 802.11g ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type:OFDM

Medium: MSL2450 ($\sigma = 1.89$ mho/m, $\epsilon_r = 52.77$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The left 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 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18

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

- Electronics: DAE3 Sn510;

- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 3.37 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.0703 mW/g

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

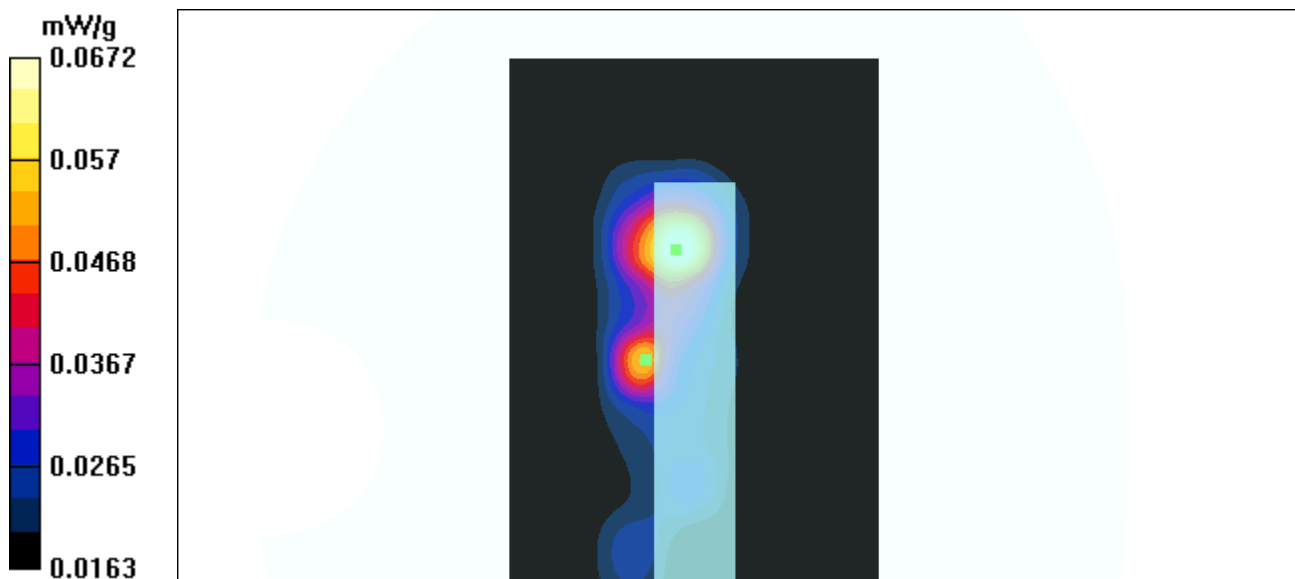
Peak SAR (extrapolated) = 2.67 W/kg

SAR(1 g) = 0.0668 mW/g; SAR(10 g) = 0.0346 mW/g

Reference Value = 3.37 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.0672 mW/g



Test Laboratory: Advance Data Technology

M275 Mode 8 Auxiliary Antenna

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2462 MHz

Communication System: 802.11g ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 1.94$ mho/m, $\epsilon_r = 51.85$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The left 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 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18

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

- Electronics: DAE3 Sn510;

- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 3.56 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.0349 mW/g

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

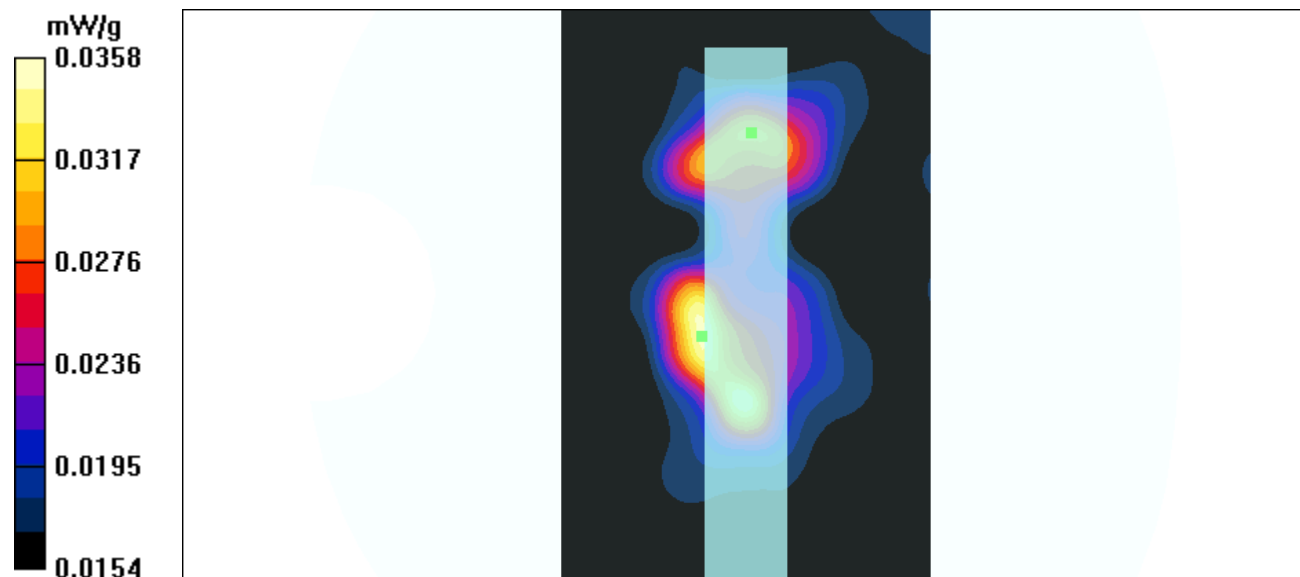
Peak SAR (extrapolated) = 0.116 W/kg

SAR(1 g) = 0.0358 mW/g; SAR(10 g) = 0.0243 mW/g

Reference Value = 3.56 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.0358 mW/g



Test Laboratory: Advance Data Technology

M275 Auxiliary Antenna Mode 7

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2462 MHz

Communication System: 802.11g ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type:OFDM

Medium: MSL2450 ($\sigma = 1.94$ mho/m, $\epsilon_r = 51.85$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

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

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

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18

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

- Electronics: DAE3 Sn510;

- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (121x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 3.29 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.4 mW/g

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

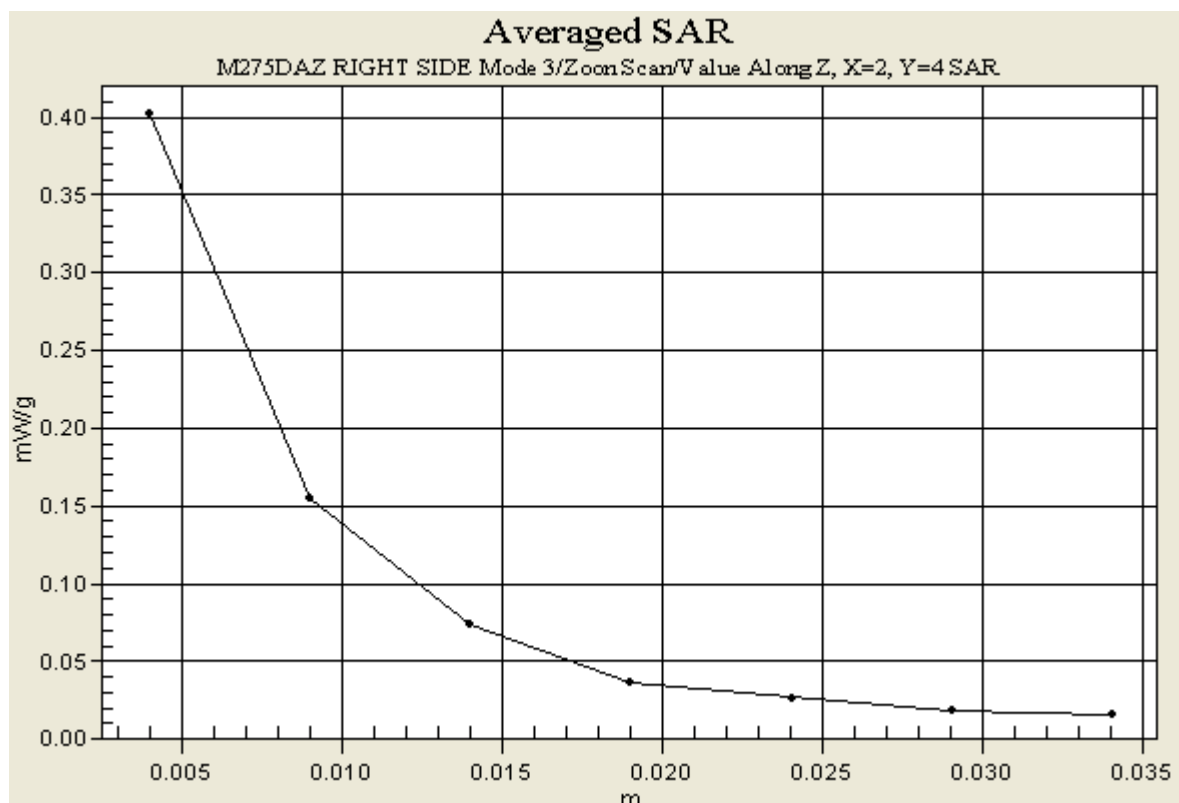
Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.39 mW/g; SAR(10 g) = 0.141 mW/g

Reference Value = 3.29 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.402 mW/g



A3 : SYSTEM VALIDATION TEST DATA

Date/Time: 10/02/03 08:20:02

Test Laboratory: Advance Data Technology

SystemPerformanceCheck-Body 2450-2003-10-02

DUT: Dipole 2450 MHz ; Type: D2450V2

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW

Medium: MSL2450 ($\sigma = 1.91$ mho/m, $\epsilon_r = 52.77$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 10mm(The feetpoint of the dipole to the Phantom)

Air temp. : 22.0 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

d=10mm, Pin=100mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 60.2 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 6.43 mW/g

d=10mm, Pin=100mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

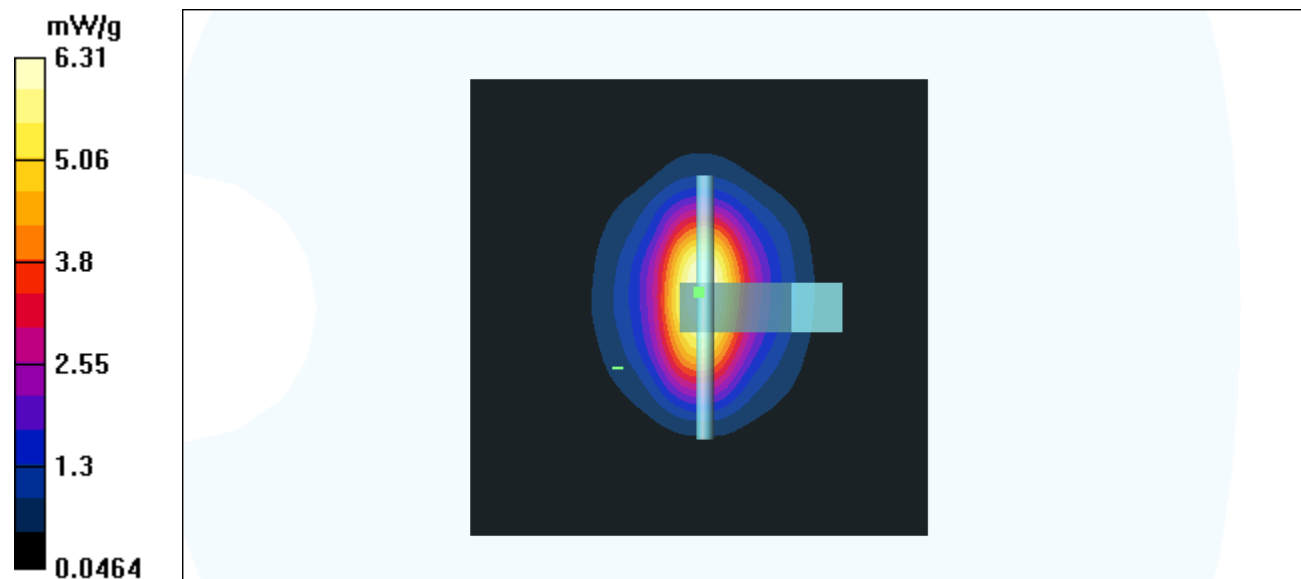
Peak SAR (extrapolated) = 12.4 W/kg

SAR(1 g) = 5.75 mW/g; SAR(10 g) = 2.62 mW/g

Reference Value = 60.2 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 6.33 mW/g



A2 : TEST DATA

Date/Time: 10/30/03 11:13:50

Test Laboratory: Advance Data Technology

M275 11.b MAIN ANTENNA Mode 9

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.978$ mho/m, $\epsilon_r = 51.1662$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 1/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 22 V/m

Power Drift = -0.3 dB

Maximum value of SAR = 0.87 mW/g

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

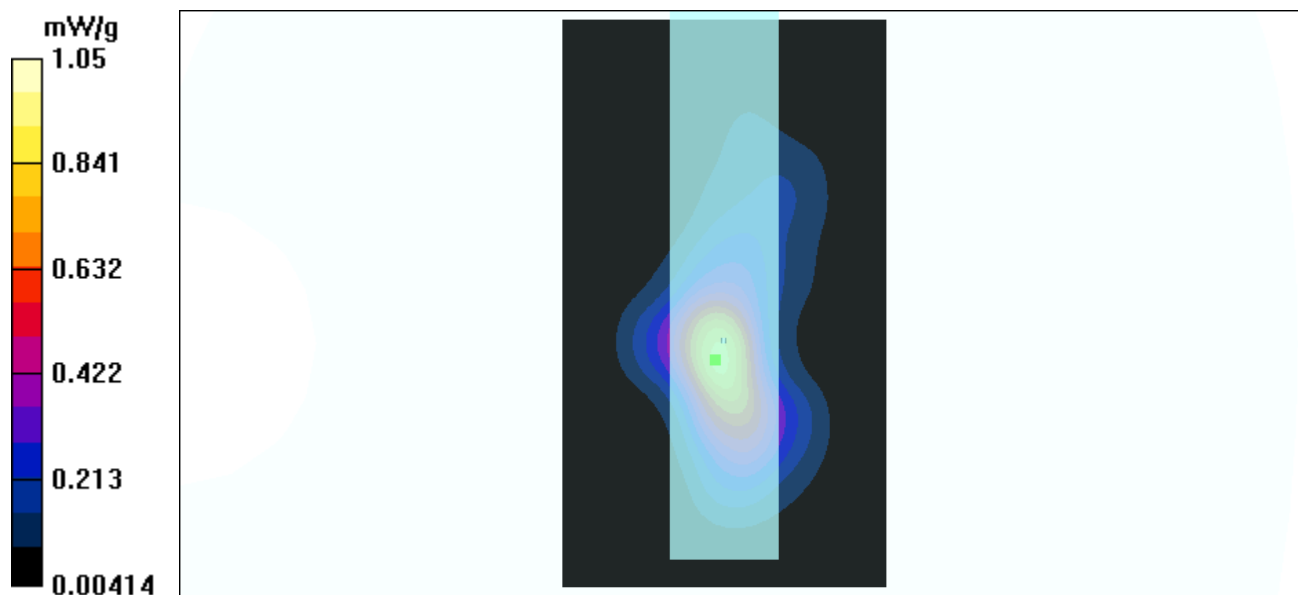
Peak SAR (extrapolated) = 3.59 W/kg

SAR(1 g) = 0.972 mW/g; SAR(10 g) = 0.351 mW/g

Reference Value = 22 V/m

Power Drift = -0.3 dB

Maximum value of SAR = 1.05 mW/g



Test Laboratory: Advance Data Technology

M275 11.b MAIN ANTENNA Mode 9

**DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test
Channel Frequency: 2437 MHz**

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.011$ mho/m, $\epsilon_r = 51.071$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 26.1 V/m

Power Drift = 0.4 dB

Maximum value of SAR = 1.36 mW/g

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

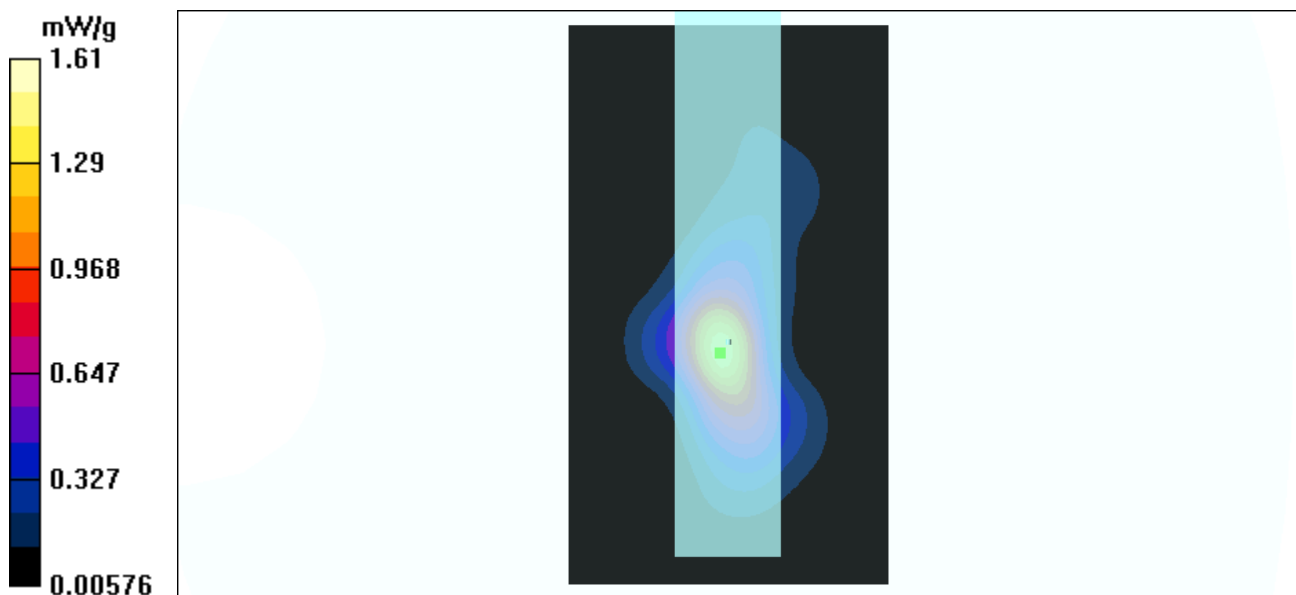
Peak SAR (extrapolated) = 4.73 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.444 mW/g

Reference Value = 26.1 V/m

Power Drift = 0.4 dB

Maximum value of SAR = 1.61 mW/g



Test Laboratory: Advance Data Technology

M275 11.b MAIN ANTENNA Mode 9

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.045$ mho/m, $\epsilon_r = 50.9632$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 19.5 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.804 mW/g

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

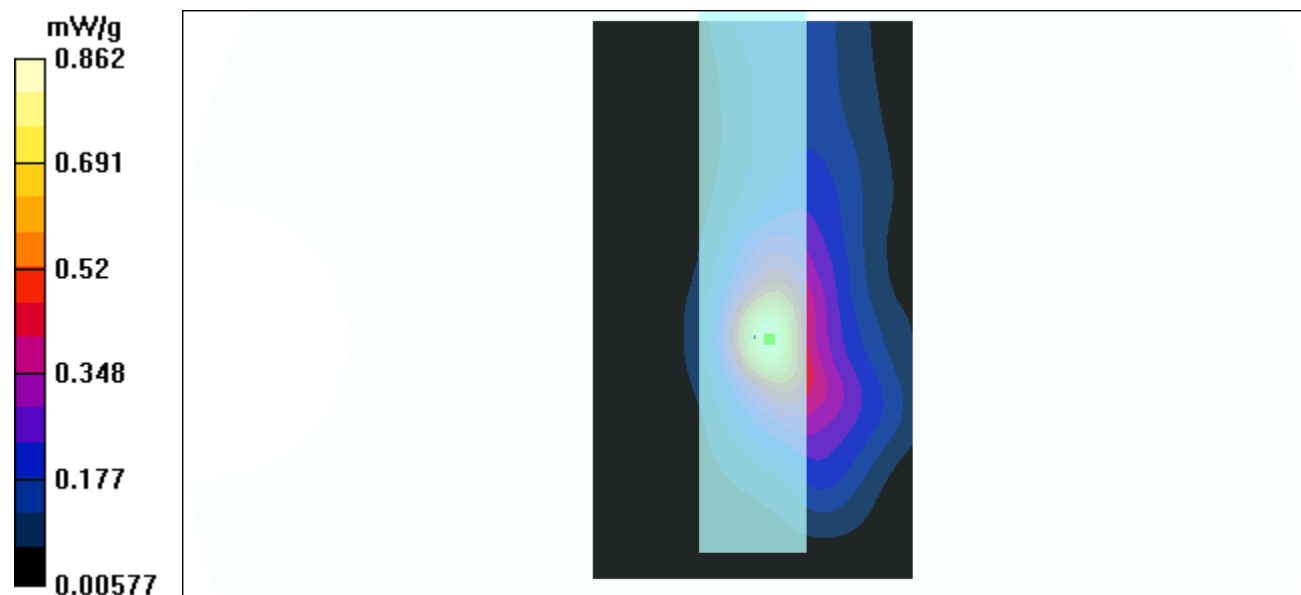
Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 0.758 mW/g; SAR(10 g) = 0.309 mW/g

Reference Value = 19.5 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.862 mW/g



Test Laboratory: Advance Data Technology

M275 11.b MAIN ANTENNA Mode 10

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.978$ mho/m, $\epsilon_r = 51.1662$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23 degrees ; Liquid temp. : 22 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: DAE not calibrated
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 1/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 5.03 V/m

Power Drift = -0.05 dB

Maximum value of SAR = 0.0574 mW/g

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

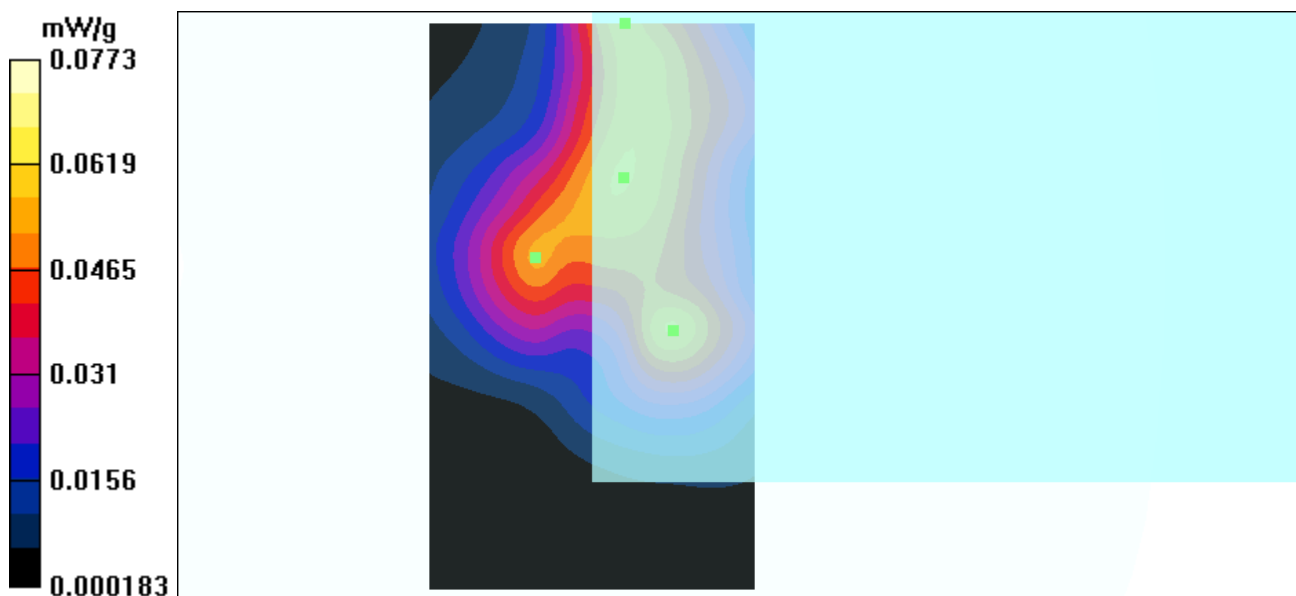
Peak SAR (extrapolated) = 0.167 W/kg

SAR(1 g) = 0.0699 mW/g; SAR(10 g) = 0.0325 mW/g

Reference Value = 5.03 V/m

Power Drift = -0.05 dB

Maximum value of SAR = 0.0773 mW/g



Test Laboratory: Advance Data Technology

M275 11.b MAIN ANTENNA Mode 10

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.011$ mho/m, $\epsilon_r = 51.071$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23 degrees ; Liquid temp. : 22 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: DAE not calibrated
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.42 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.0968 mW/g

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

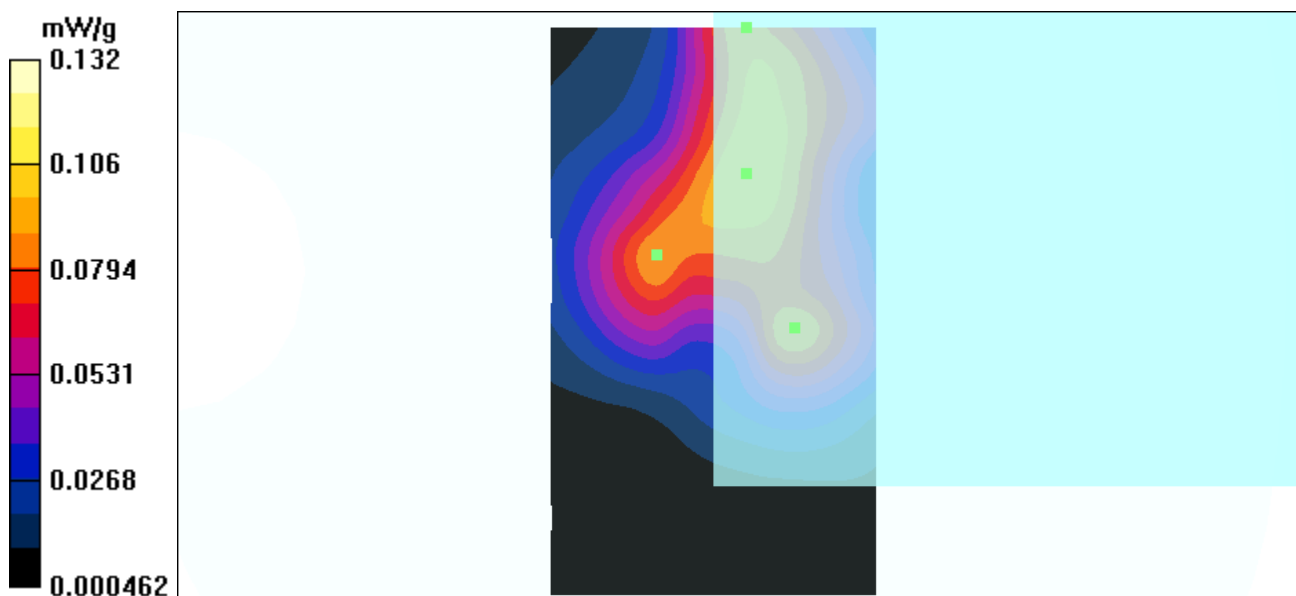
Peak SAR (extrapolated) = 0.302 W/kg

SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.0545 mW/g

Reference Value = 6.42 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.132 mW/g



Test Laboratory: Advance Data Technology

M275 11.b MAIN ANTENNA Mode 10

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.045$ mho/m, $\epsilon_r = 50.9632$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23 degrees ; Liquid temp. : 22 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: DAE not calibrated
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.36 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.176 mW/g

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

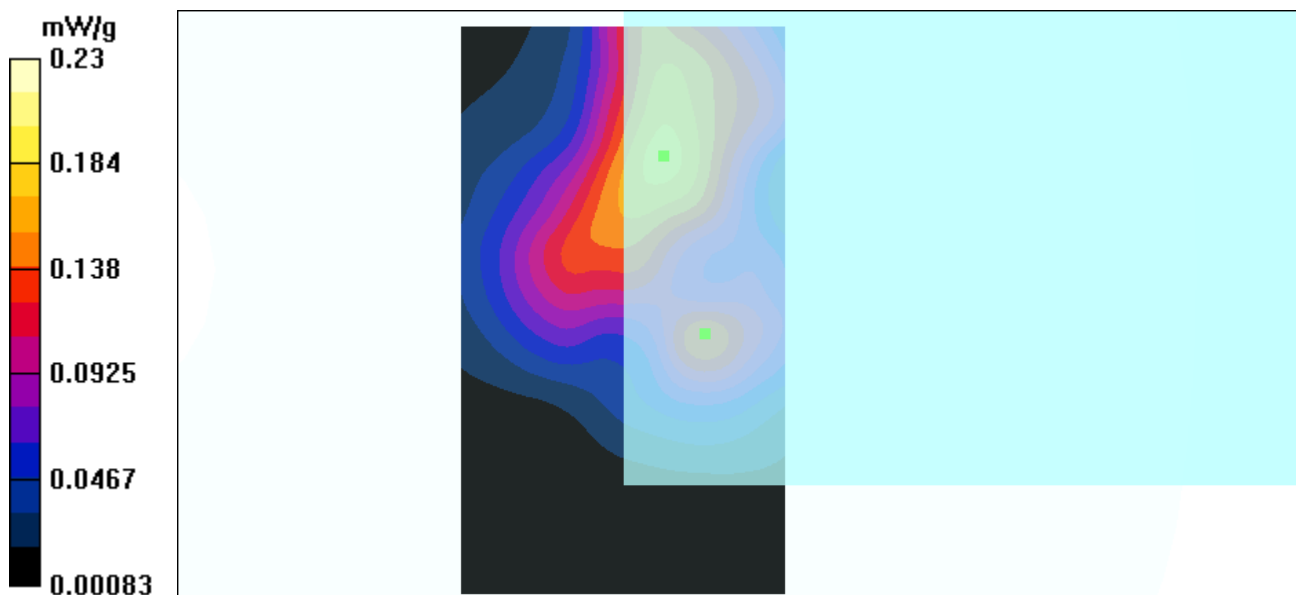
Peak SAR (extrapolated) = 0.542 W/kg

SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.0959 mW/g

Reference Value = 7.36 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.23 mW/g



Test Laboratory: Advance Data Technology

M275 11.b MAIN ANTENNA Mode 11

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.978$ mho/m, $\epsilon_r = 51.1662$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 1/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.14 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.222 mW/g

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

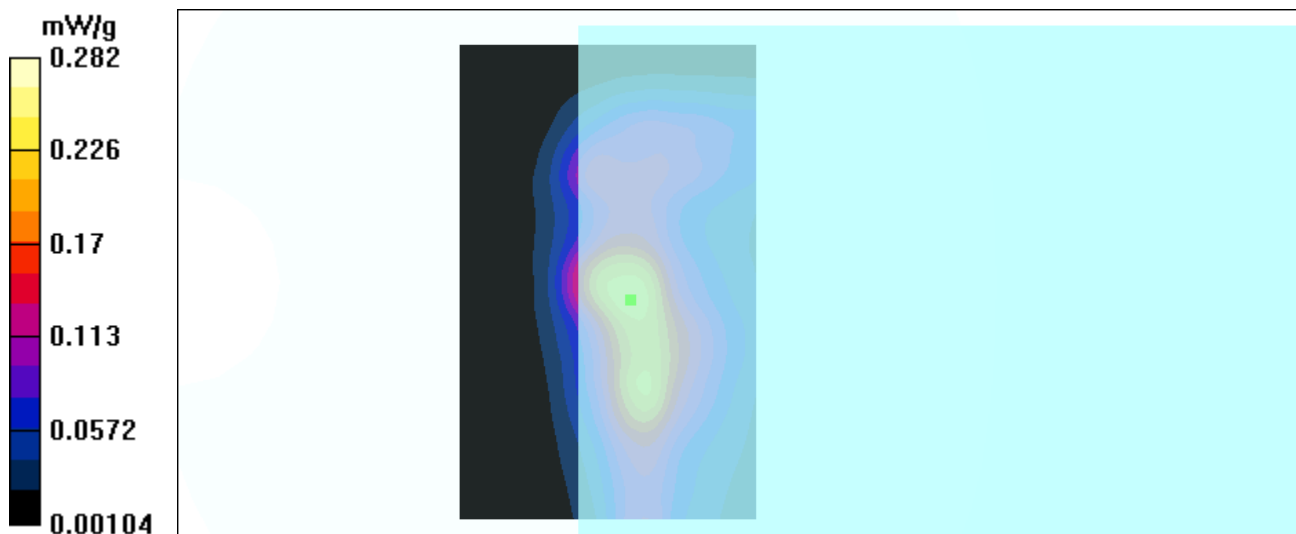
Peak SAR (extrapolated) = 0.723 W/kg

SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.113 mW/g

Reference Value = 9.14 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.282 mW/g



Test Laboratory: Advance Data Technology

M275 11.b MAIN ANTENNA Mode 11

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.011$ mho/m, $\epsilon_r = 51.071$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.9 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.354 mW/g

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

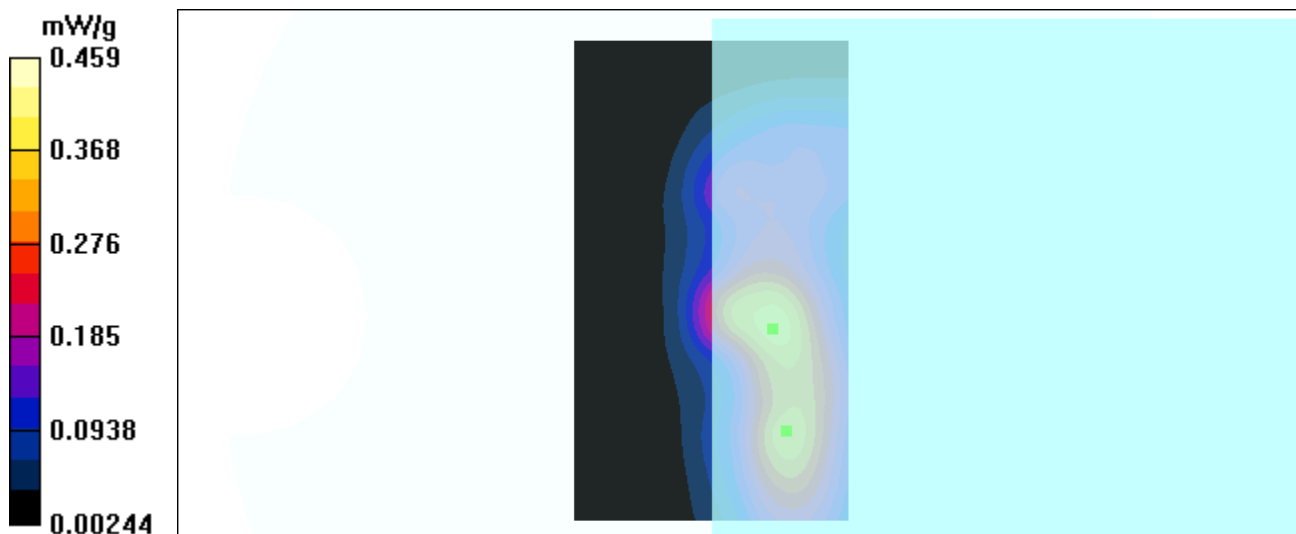
Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.419 mW/g; SAR(10 g) = 0.177 mW/g

Reference Value = 10.9 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.459 mW/g



Test Laboratory: Advance Data Technology

M275 11.b MAIN ANTENNA Mode 11

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.045$ mho/m, $\epsilon_r = 50.9632$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.6 V/m

Power Drift = 0.3 dB

Maximum value of SAR = 0.527 mW/g

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

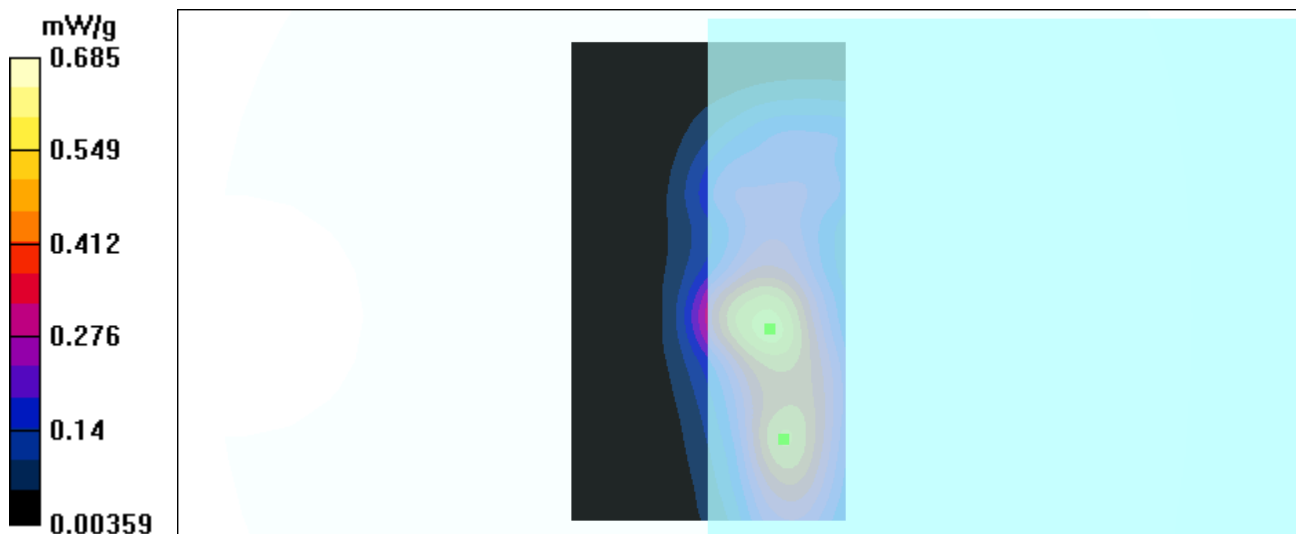
Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.628 mW/g; SAR(10 g) = 0.259 mW/g

Reference Value = 12.6 V/m

Power Drift = 0.3 dB

Maximum value of SAR = 0.685 mW/g



Test Laboratory: Advance Data Technology

M275 11.b AXUIILIARY ANTENNA Mode 12

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.978$ mho/m, $\epsilon_r = 51.1662$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 1/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.88 V/m

Power Drift = 0.4 dB

Maximum value of SAR = 0.223 mW/g

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

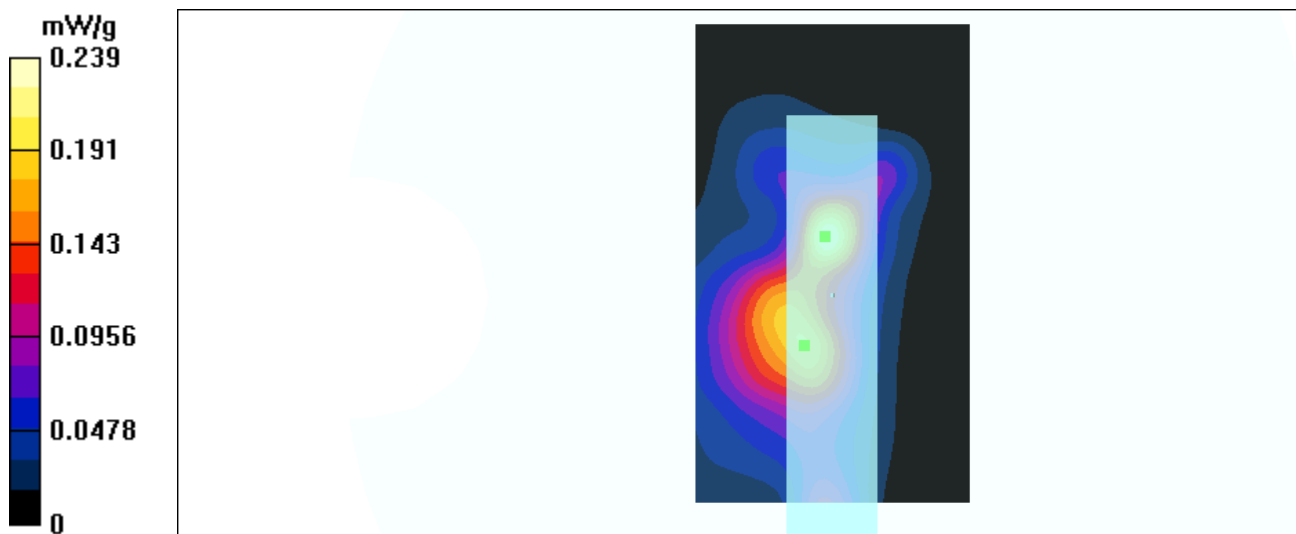
Peak SAR (extrapolated) = 0.745 W/kg

SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.076 mW/g

Reference Value = 7.88 V/m

Power Drift = 0.4 dB

Maximum value of SAR = 0.239 mW/g



Test Laboratory: Advance Data Technology

M275 11.b AXUIILIARY ANTENNA Mode 12

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.011$ mho/m, $\epsilon_r = 51.071$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.48 V/m

Power Drift = 0.3 dB

Maximum value of SAR = 0.13 mW/g

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

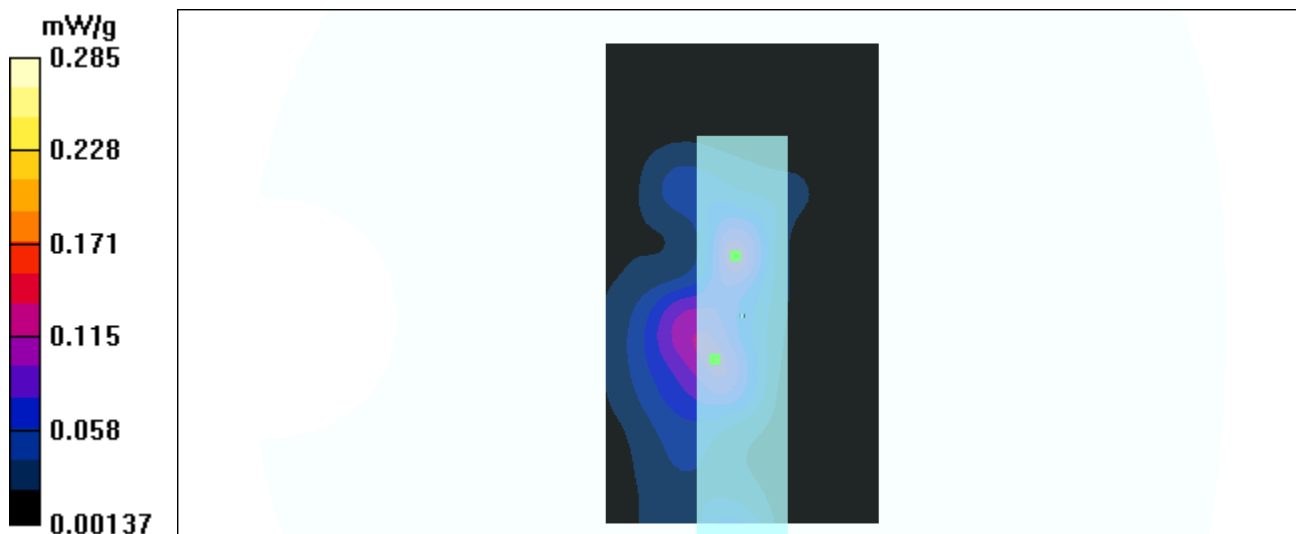
Peak SAR (extrapolated) = 0.827 W/kg

SAR(1 g) = 0.271 mW/g; SAR(10 g) = 0.103 mW/g

Reference Value = 6.48 V/m

Power Drift = 0.3 dB

Maximum value of SAR = 0.285 mW/g



Test Laboratory: Advance Data Technology

M275 11.b AXUIILIARY ANTENNA Mode 12

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.045$ mho/m, $\epsilon_r = 50.9632$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 3.35 V/m

Power Drift = 0.4 dB

Maximum value of SAR = 0.0324 mW/g

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

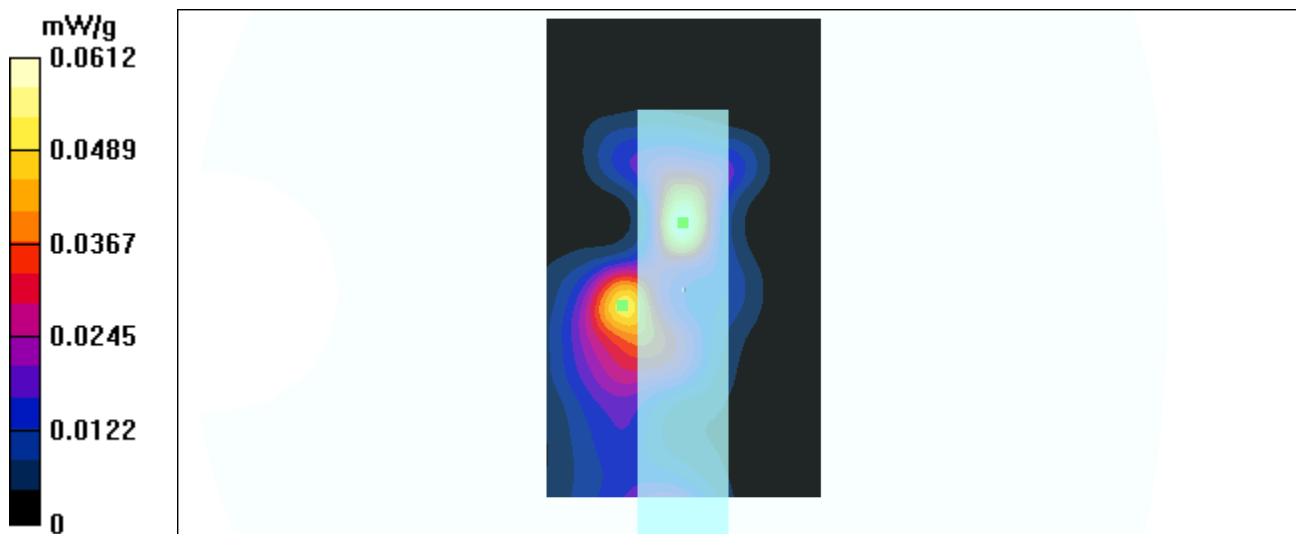
Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.268 mW/g; SAR(10 g) = 0.078 mW/g

Reference Value = 3.35 V/m

Power Drift = 0.4 dB

Maximum value of SAR = 0.0612 mW/g



Test Laboratory: Advance Data Technology

M275 11.b AXUIILIARY ANTENNA Mode 13

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.978$ mho/m, $\epsilon_r = 51.1662$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23 degrees ; Liquid temp. : 22 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: DAE not calibrated
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 1/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 5.89 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.0966 mW/g

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

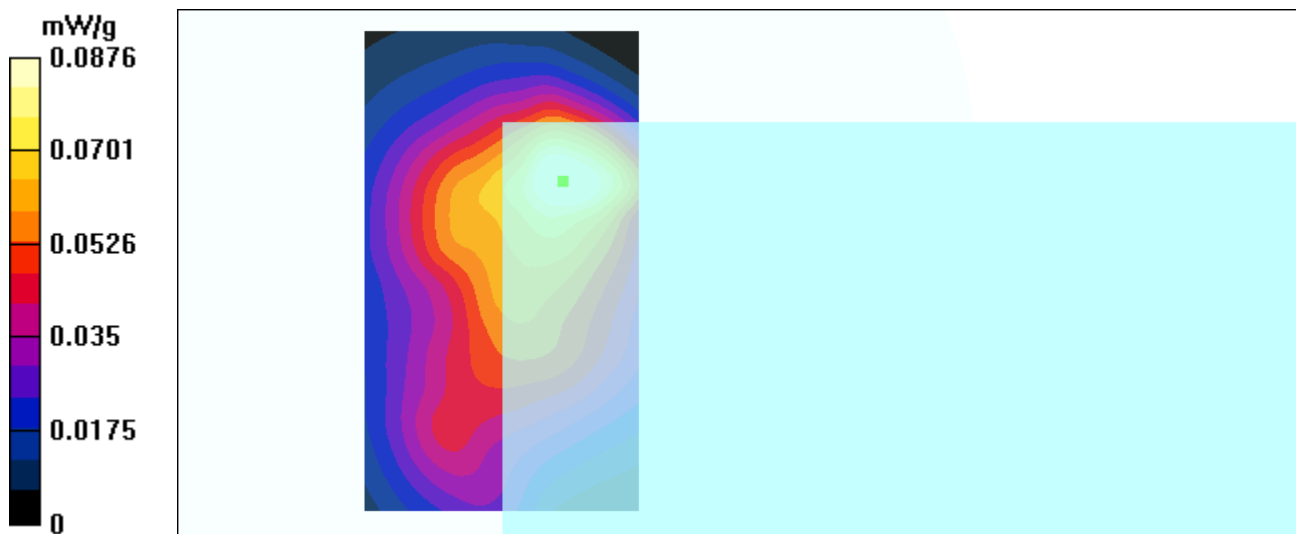
Peak SAR (extrapolated) = 0.935 W/kg

SAR(1 g) = 0.102 mW/g; SAR(10 g) = 0.0313 mW/g

Reference Value = 5.89 V/m

Power Drift = -0.1dB

Maximum value of SAR = 0.0876 mW/g



Test Laboratory: Advance Data Technology

M275 11.b AXUILIARY ANTENNA Mode 13

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.011$ mho/m, $\epsilon_r = 51.071$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23 degrees ; Liquid temp. : 22 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: DAE not calibrated
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 4.33 V/m

Power Drift = 0.4 dB

Maximum value of SAR = 0.0841 mW/g

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

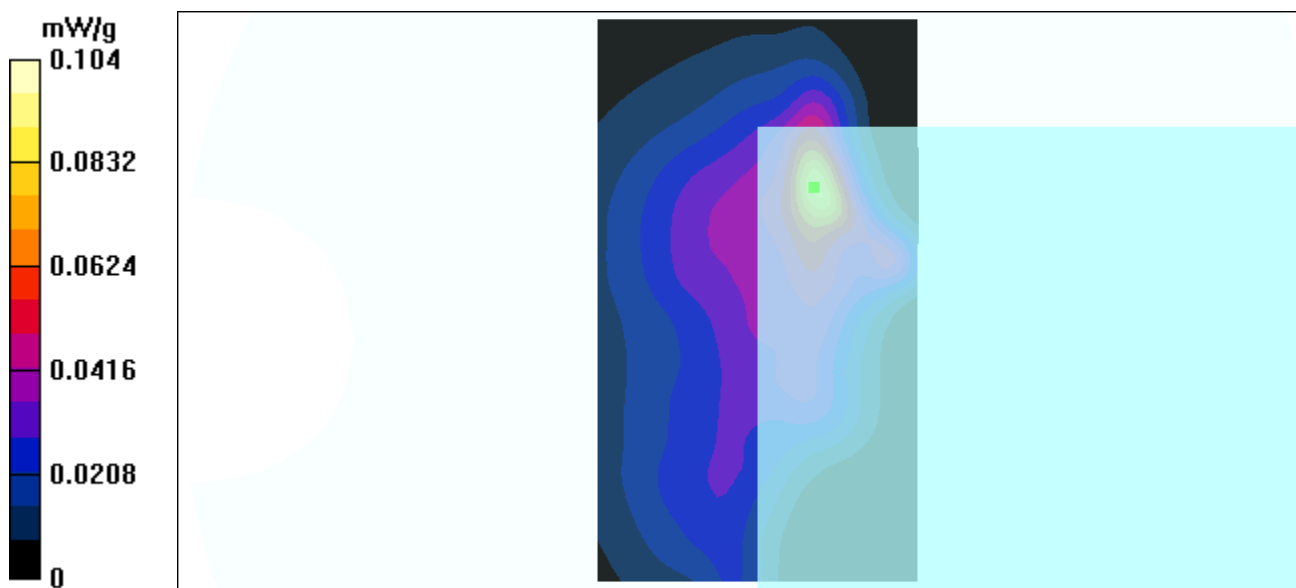
Peak SAR (extrapolated) = 0.63 W/kg

SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.0376 mW/g

Reference Value = 4.33 V/m

Power Drift = 0.4 dB

Maximum value of SAR = 0.104 mW/g



Test Laboratory: Advance Data Technology

M275 11.b AXUILIARY ANTENNA Mode 13

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.045$ mho/m, $\epsilon_r = 50.9632$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23 degrees ; Liquid temp. : 22 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: DAE not calibrated
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 2.99 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.0306 mW/g

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

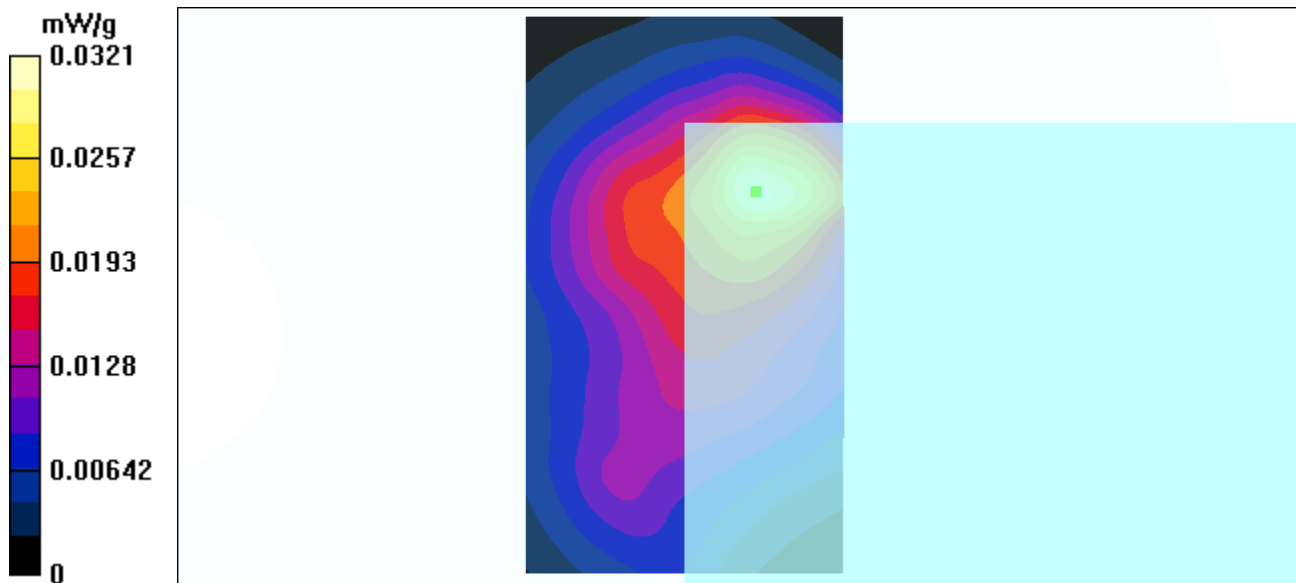
Peak SAR (extrapolated) = 0.0647 W/kg

SAR(1 g) = 0.0305 mW/g; SAR(10 g) = 0.015 mW/g

Reference Value = 2.99 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.0321 mW/g



Test Laboratory: Advance Data Technology

M275 11.b AXUIILIARY ANTENNA Mode 14

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.978$ mho/m, $\epsilon_r = 51.1662$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 1/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 18.4 V/m

Power Drift = -0.3 dB

Maximum value of SAR = 1.16 mW/g

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

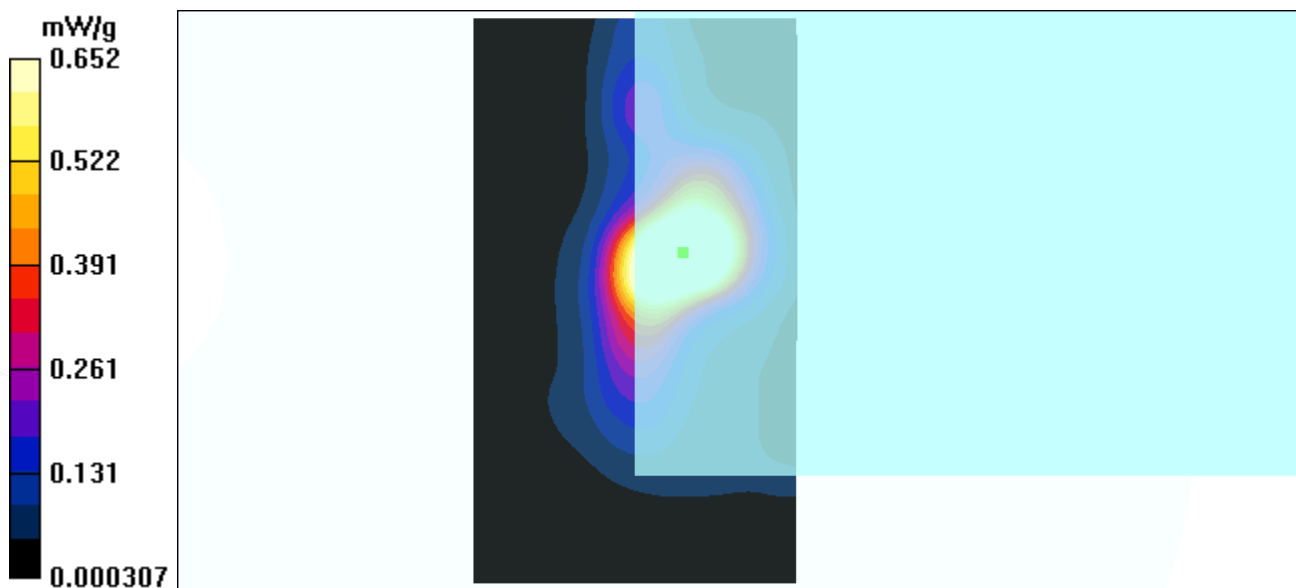
Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 0.545 mW/g; SAR(10 g) = 0.189 mW/g

Reference Value = 18.4 V/m

Power Drift = -0.3 dB

Maximum value of SAR = 0.652 mW/g



Test Laboratory: Advance Data Technology

M275 11.b AXUIILIARY ANTENNA Mode 14

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.011$ mho/m, $\epsilon_r = 51.071$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 13 V/m

Power Drift = 0.3 dB

Maximum value of SAR = 0.63 mW/g

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

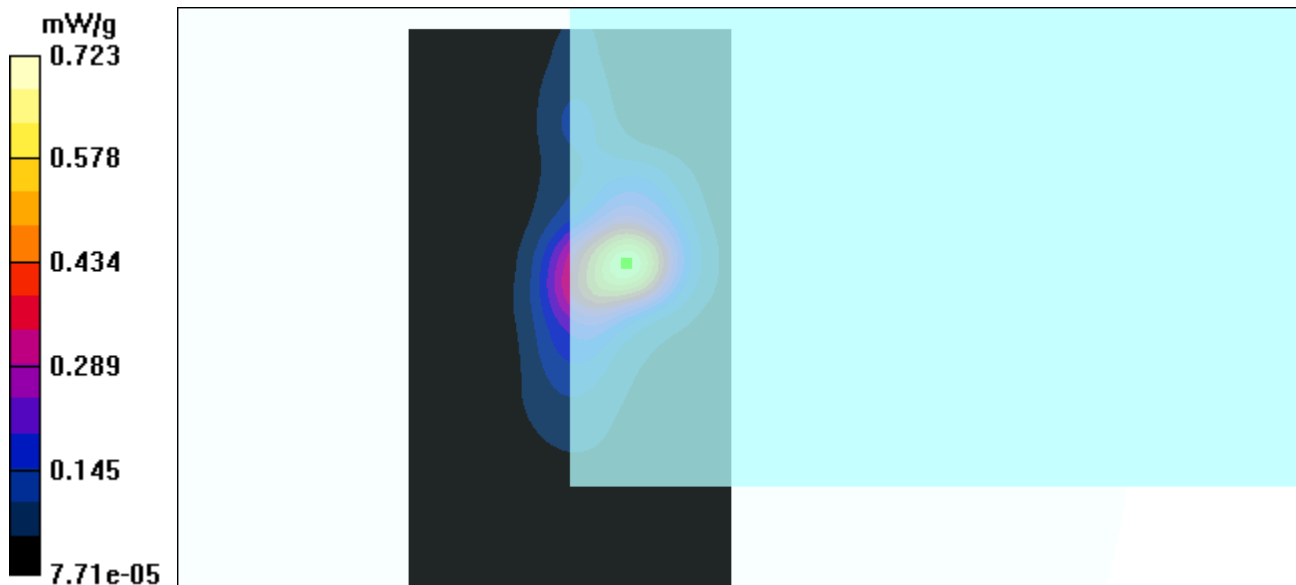
Peak SAR (extrapolated) = 2.55 W/kg

SAR(1 g) = 0.619 mW/g; SAR(10 g) = 0.198 mW/g

Reference Value = 13 V/m

Power Drift = 0.3 dB

Maximum value of SAR = 0.723 mW/g



Test Laboratory: Advance Data Technology

M275 11.b AXUIILIARY ANTENNA Mode 14

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275 ; Test Channel Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.045$ mho/m, $\epsilon_r = 50.9632$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.37 V/m

Power Drift = 0.4 dB

Maximum value of SAR = 0.328 mW/g

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

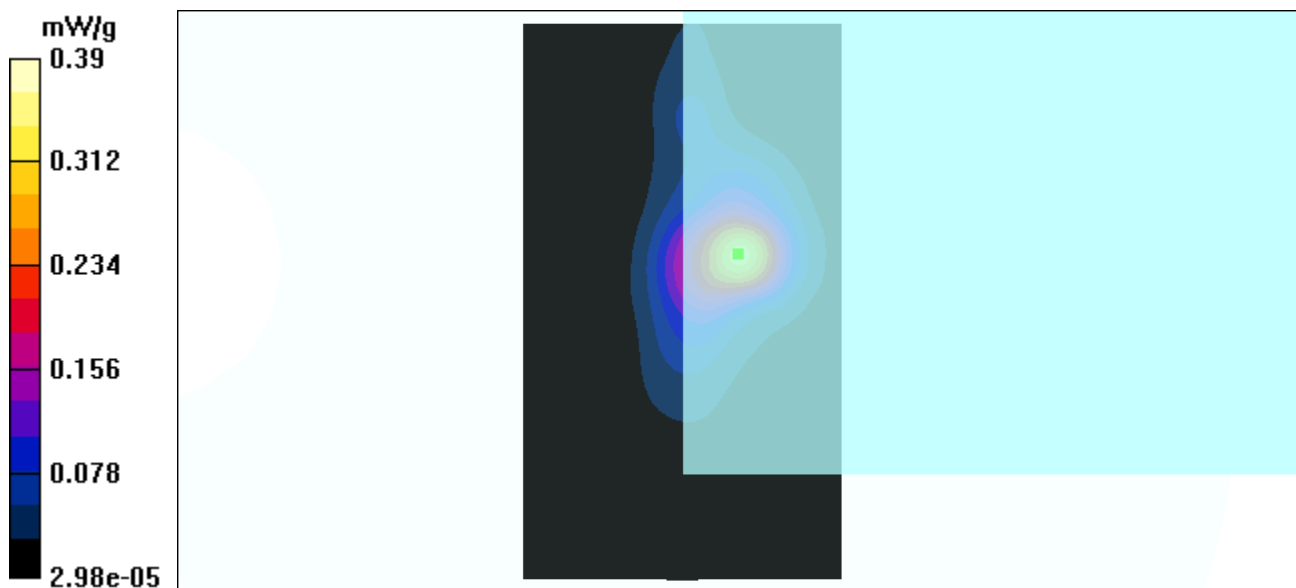
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.105 mW/g

Reference Value = 9.37 V/m

Power Drift = 0.4 dB

Maximum value of SAR = 0.39 mW/g



Test Laboratory: Advance Data Technology

M275 11.b MAIN ANTENNA Mode 9

DUT: Notebook(with Broadcom BCM94306MP Mini PCI card) ; Type: M275DAZ ; Test Channel Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.011$ mho/m, $\epsilon_r = 51.071$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm

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

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x71x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 26.1 V/m

Power Drift = 0.4 dB

Maximum value of SAR = 1.36 mW/g

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

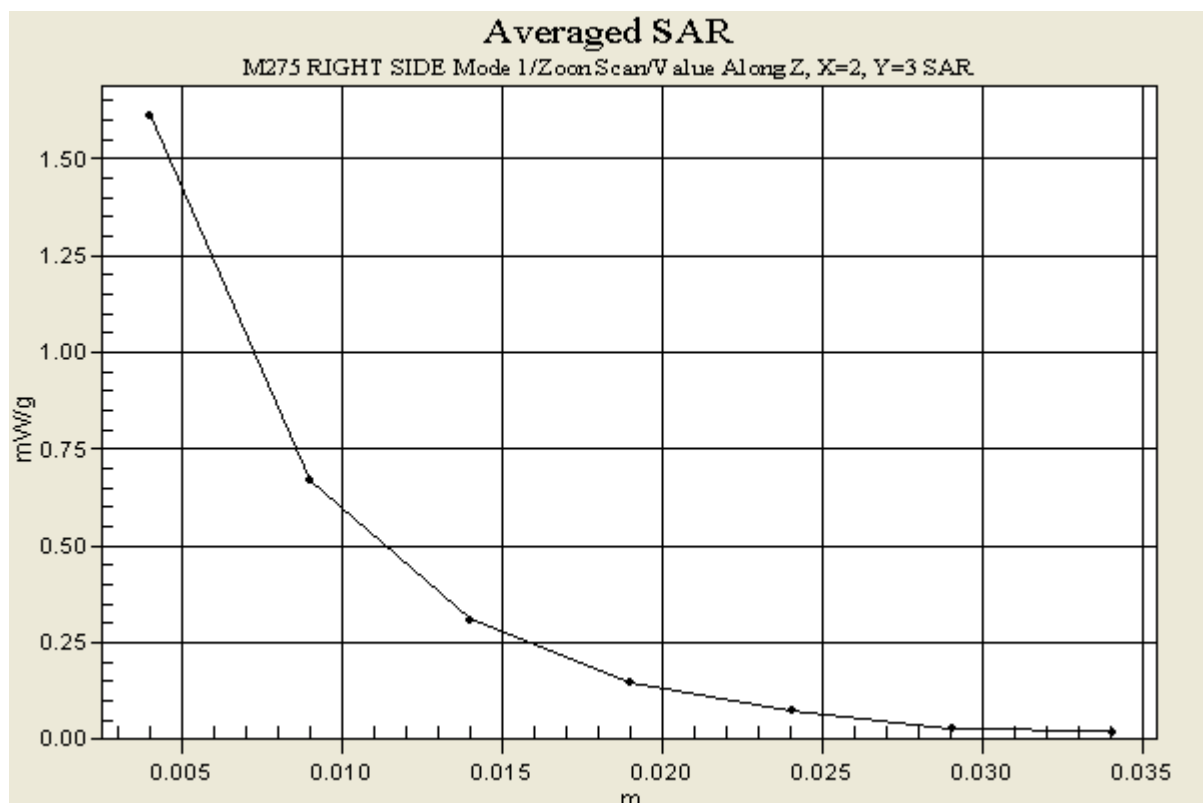
Peak SAR (extrapolated) = 4.73 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.444 mW/g

Reference Value = 26.1 V/m

Power Drift = 0.4 dB

Maximum value of SAR = 1.61 mW/g



A3 : SYSTEM VALIDATION

Date/Time: 10/30/03 10:12:58

Test Laboratory: Advance Data Technology

SystemPerformanceCheck-Body 2450-2003-10-30

DUT: Dipole 2450 MHz ; Type: D2450V2

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2450 ($\sigma = 2.028$ mho/m, $\epsilon_r = 51.017$, $\rho = 1000$ kg/m³) ; Liquid level : 151mm
Phantom section: Flat Section ; Separation distance : 10mm(The feetpoint of the dipole to the Phantom)
Air temp. : 23.0 degrees ; Liquid temp. : 22 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

d=10mm, Pin=100mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 59.6 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 6.92 mW/g

d=10mm, Pin=100mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 13.1 W/kg

SAR(1 g) = 5.94 mW/g; SAR(10 g) = 2.67 mW/g

Reference Value = 59.6 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 6.57 mW/g

