

APPENDIX A: TEST CONFIGURATIONS AND TEST DATA

A1: TEST CONFIGURATION

NB : Compaq EVO N800C



The bottom of the EUT to the flat phantom distance 5 mm

NB : Dell C600



The right of the EUT to the flat phantom distance 6 mm

EUT Photo

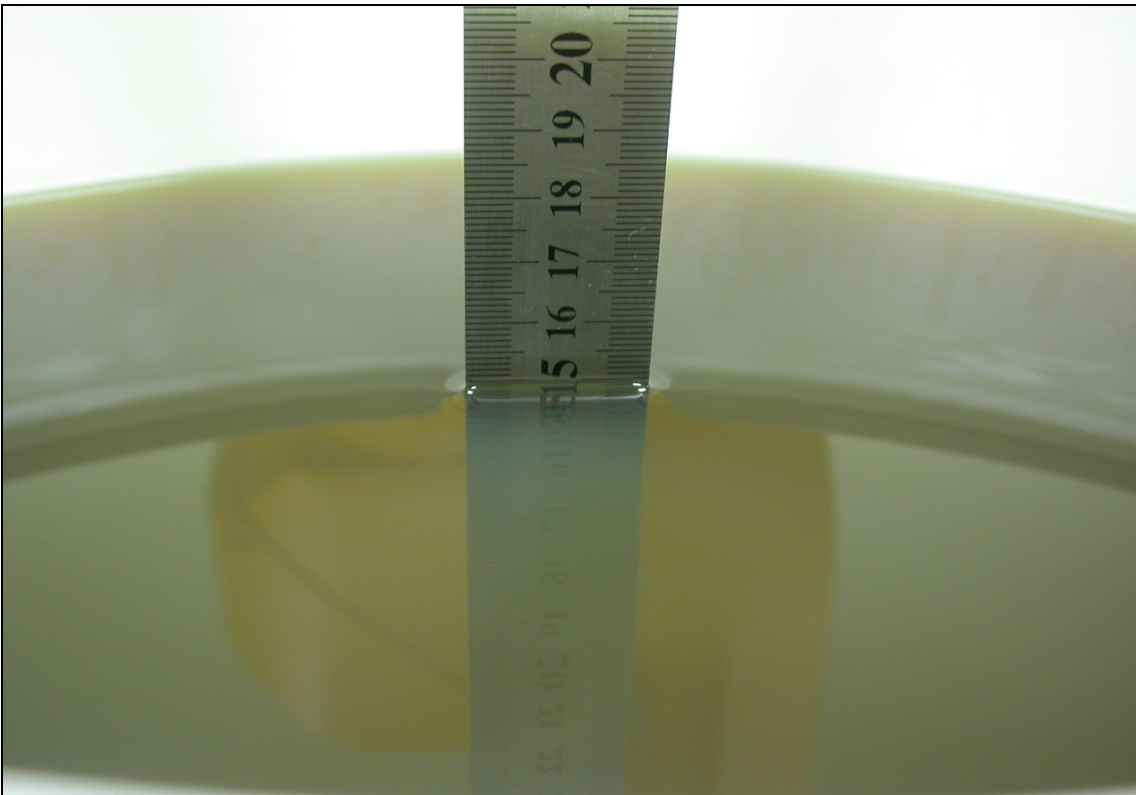


Liquid Level Photo

MSL 2450MHz D=151mm



MSL 5000MHz D=150mm



Date/Time: 2005/7/5 12:00:16

Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11b N800C Mode 1

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK
Medium: MSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³ ; Liquid level : 151mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Low Channel 1/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.15 mW/g

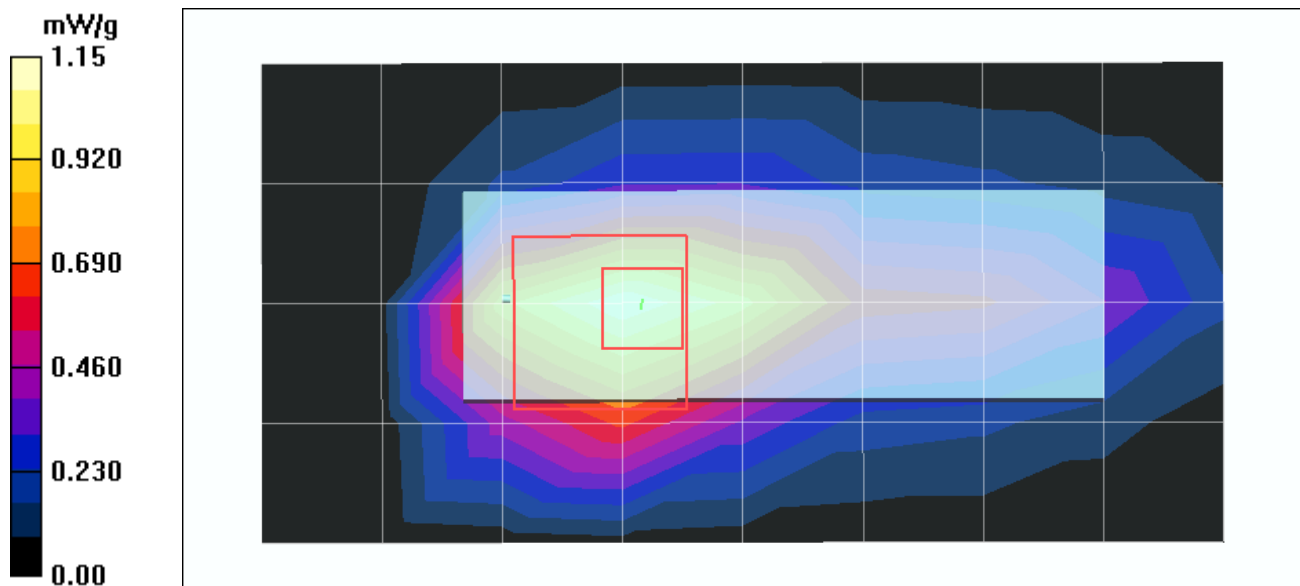
Low Channel 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.2 V/m

Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 0.984 mW/g; SAR(10 g) = 0.503 mW/g

Maximum value of SAR (measured) = 1.10 mW/g



Date/Time: 2005/7/5 12:26:25

Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11b N800C Mode 1

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK
Medium: MSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.98 \text{ mho/m}$; $\epsilon_r = 52$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 151mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 6/Area Scan (5x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.06 mW/g

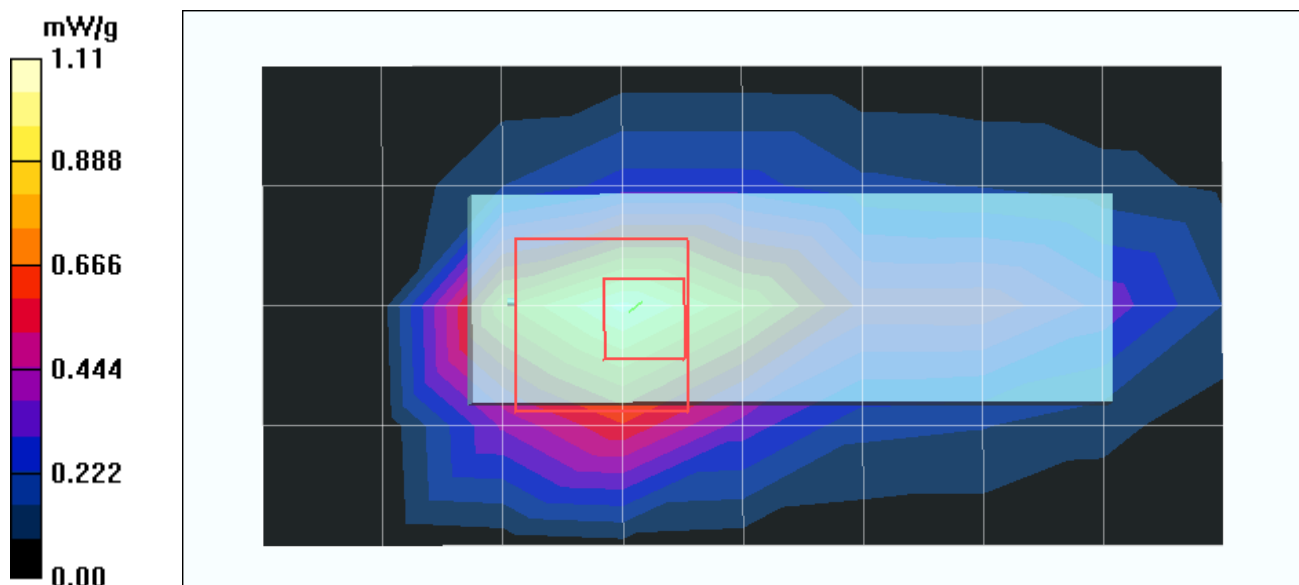
Mid Channel 6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

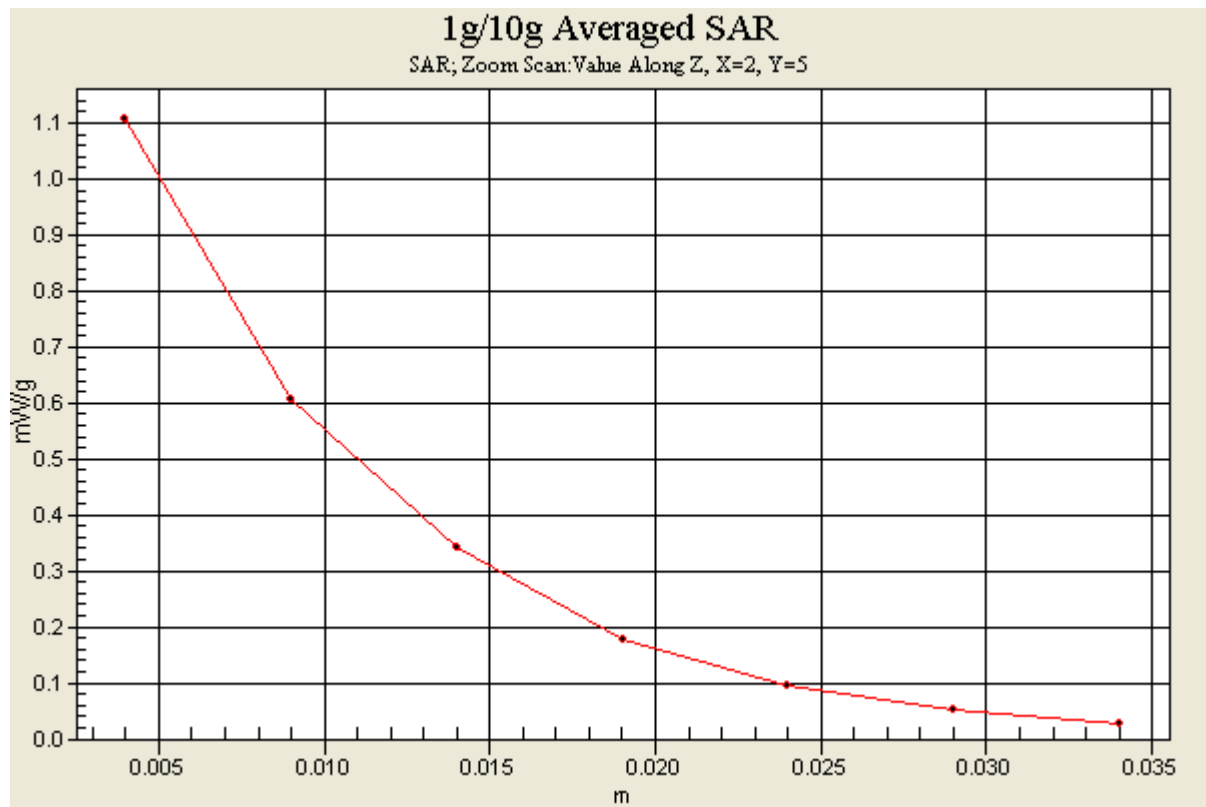
Reference Value = 21.2 V/m

Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 0.996 mW/g; SAR(10 g) = 0.505 mW/g

Maximum value of SAR (measured) = 1.11 mW/g





Date/Time: 2005/7/5 12:42:40

Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11b N800C Mode 1

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK
Medium: MSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³ ; Liquid level : 151mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

High Channel 11/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.784 mW/g

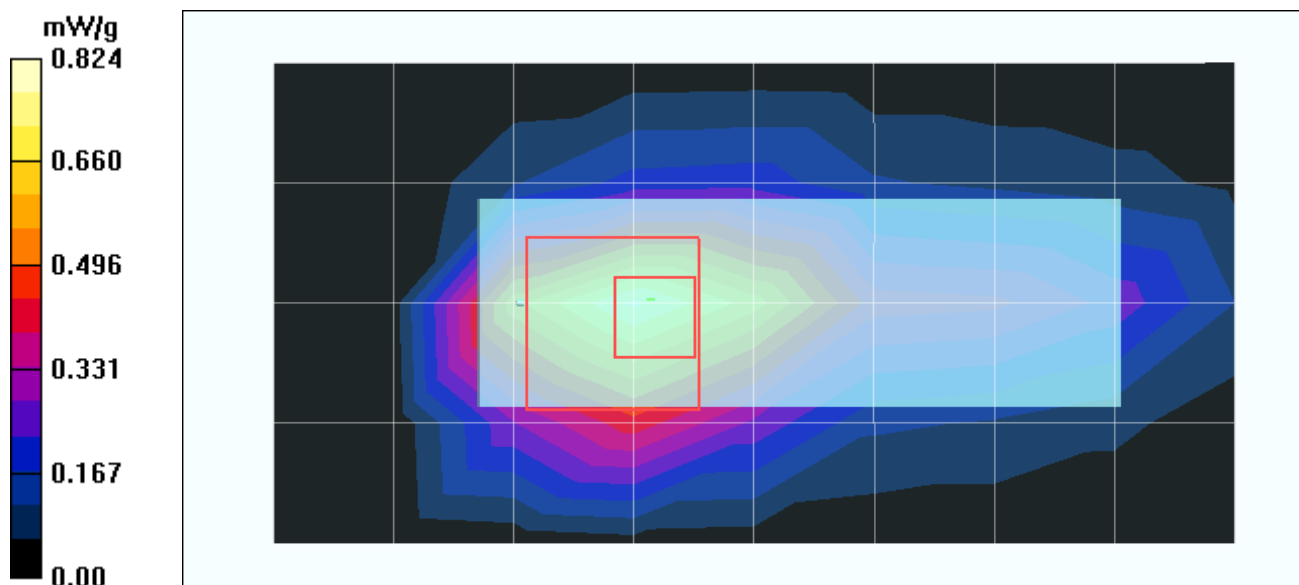
High Channel 11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.2 V/m

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.739 mW/g; SAR(10 g) = 0.370 mW/g

Maximum value of SAR (measured) = 0.824 mW/g



Date/Time: 2005/7/5 13:13:44

Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11g N800C Mode 2

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 2412 MHz

Communication System: 802.11g ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³ ; Liquid level : 151mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Low Channel 1/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.640 mW/g

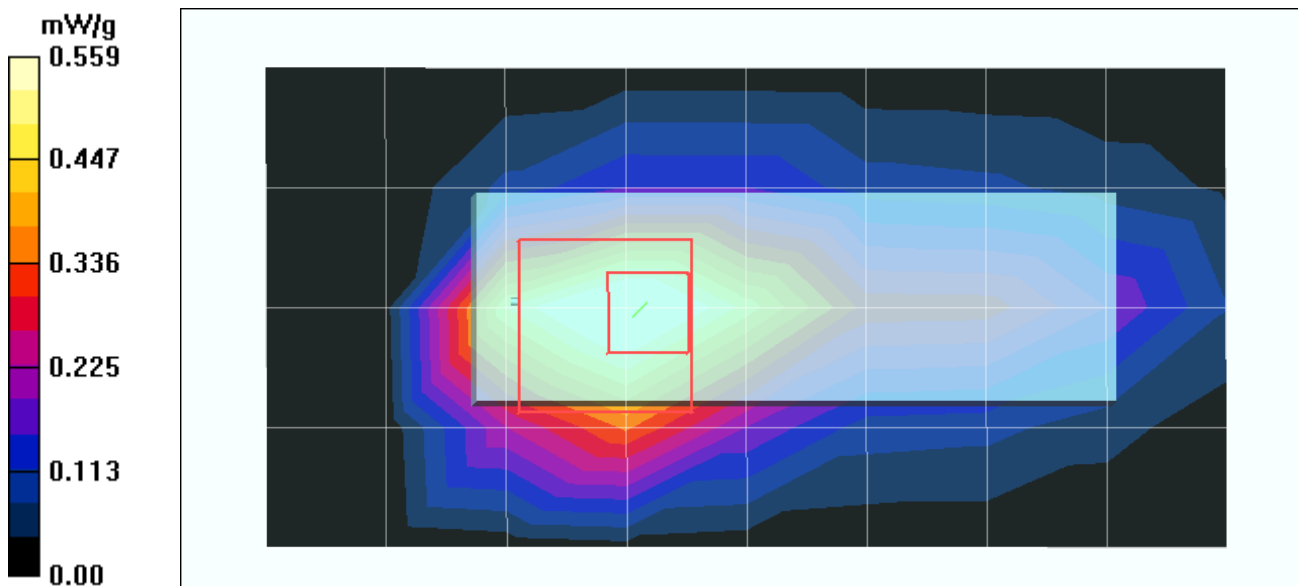
Low Channel 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.01 V/m

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.257 mW/g

Maximum value of SAR (measured) = 0.559 mW/g



Date/Time: 2005/7/5 13:36:52

Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11g N800C Mode 2

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 2437 MHz

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

Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52$; $\rho = 1000$

kg/m³ ; Liquid level : 151mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 6/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.704 mW/g

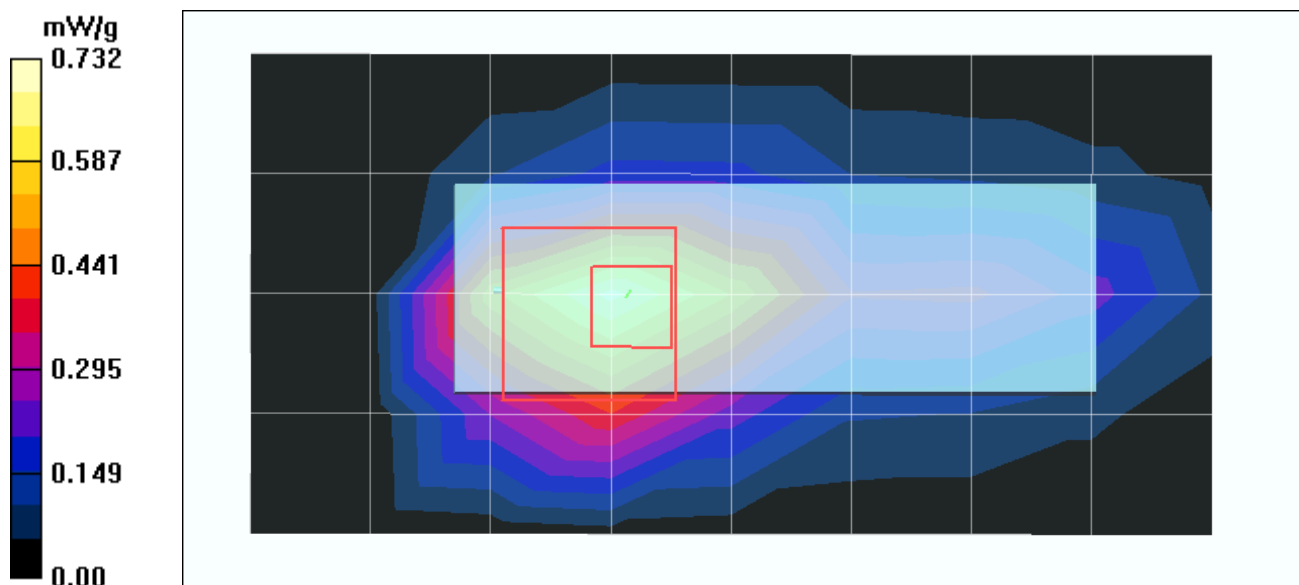
Mid Channel 6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.4 V/m

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.663 mW/g; SAR(10 g) = 0.335 mW/g

Maximum value of SAR (measured) = 0.732 mW/g



Date/Time: 2005/7/5 13:55:18

Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11g N800C Mode 2

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 2462 MHz

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

Medium: MSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³ ; Liquid level : 151mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

High Channel 11/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.480 mW/g

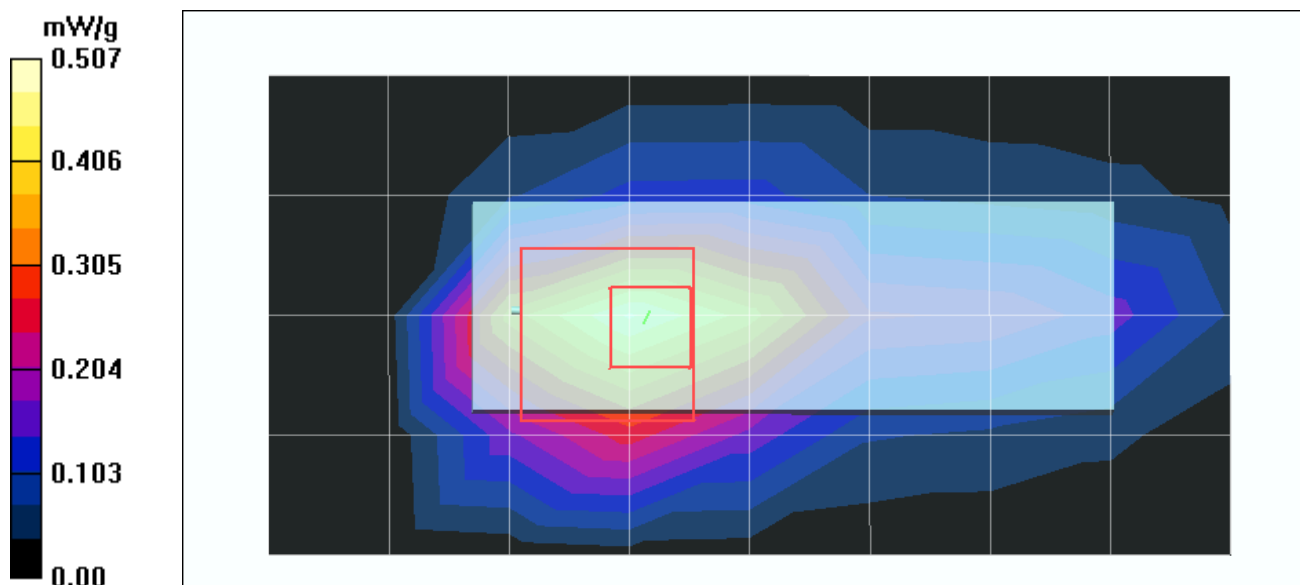
High Channel 11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.1 V/m

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.454 mW/g; SAR(10 g) = 0.225 mW/g

Maximum value of SAR (measured) = 0.507 mW/g



Test Laboratory: Advance Data Technology

NUB-8301 Vertical 11b N800C Mode 3

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK
Medium: MSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³ ; Liquid level : 151mm

Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Low Channel 1/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.545 mW/g

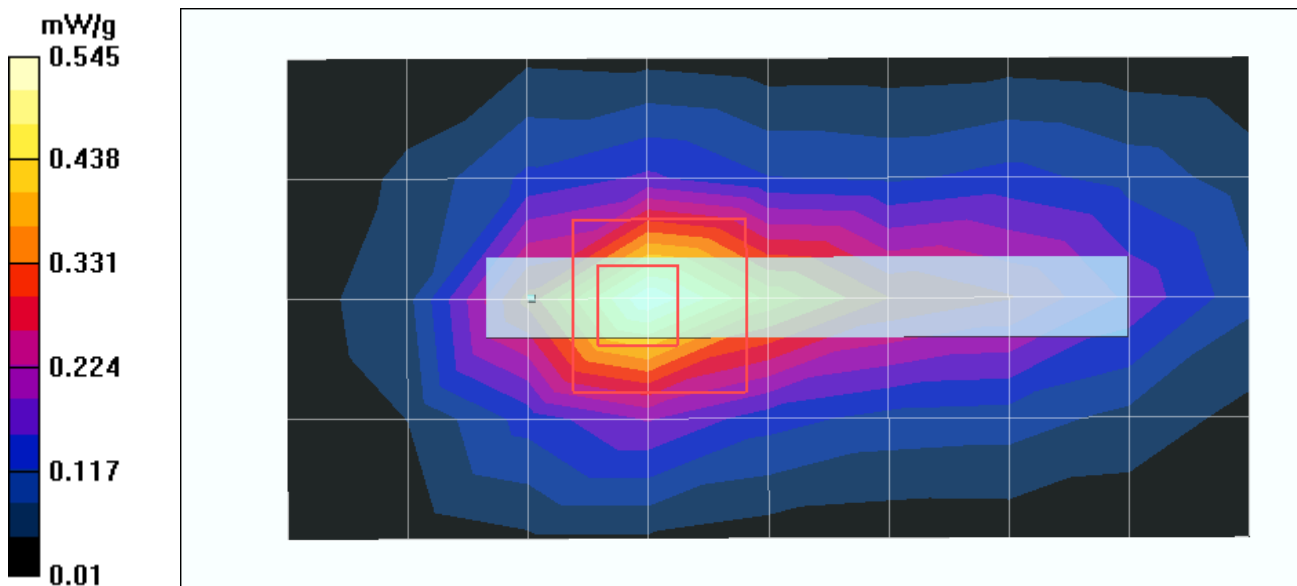
Low Channel 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.8 V/m

Peak SAR (extrapolated) = 0.977 W/kg

SAR(1 g) = 0.449 mW/g; SAR(10 g) = 0.220 mW/g

Maximum value of SAR (measured) = 0.490 mW/g



Date/Time: 2005/7/5 14:40:32

Test Laboratory: Advance Data Technology

NUB-8301 Vertical 11b N800C Mode 3

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK
Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³ ; Liquid level : 151mm

Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 6/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.518 mW/g

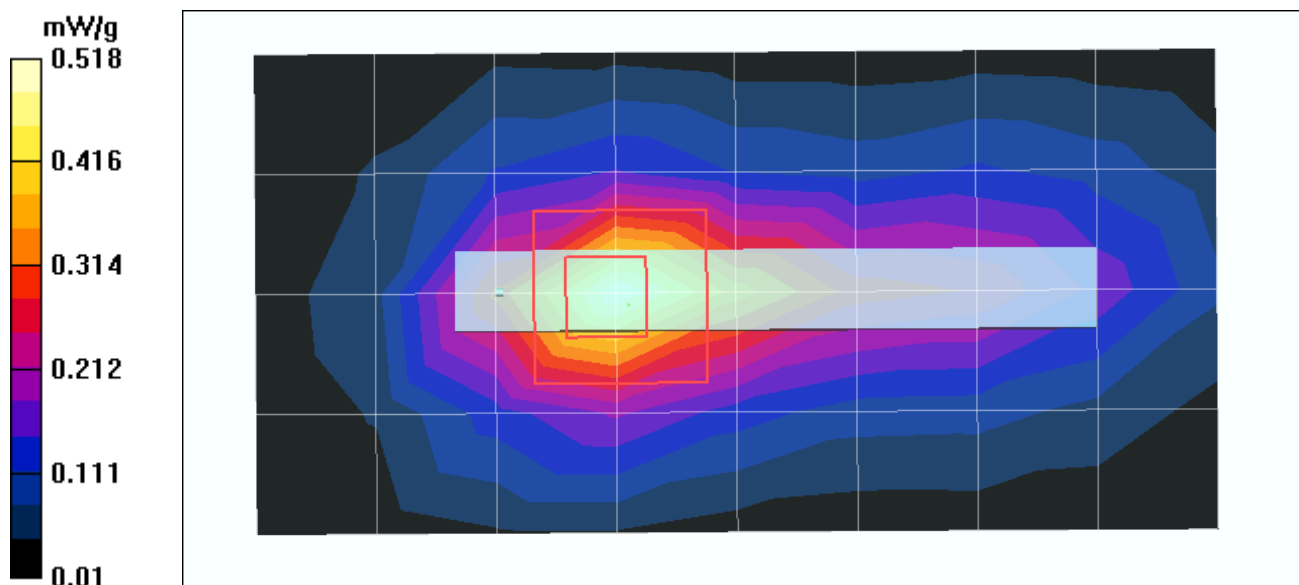
Mid Channel 6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

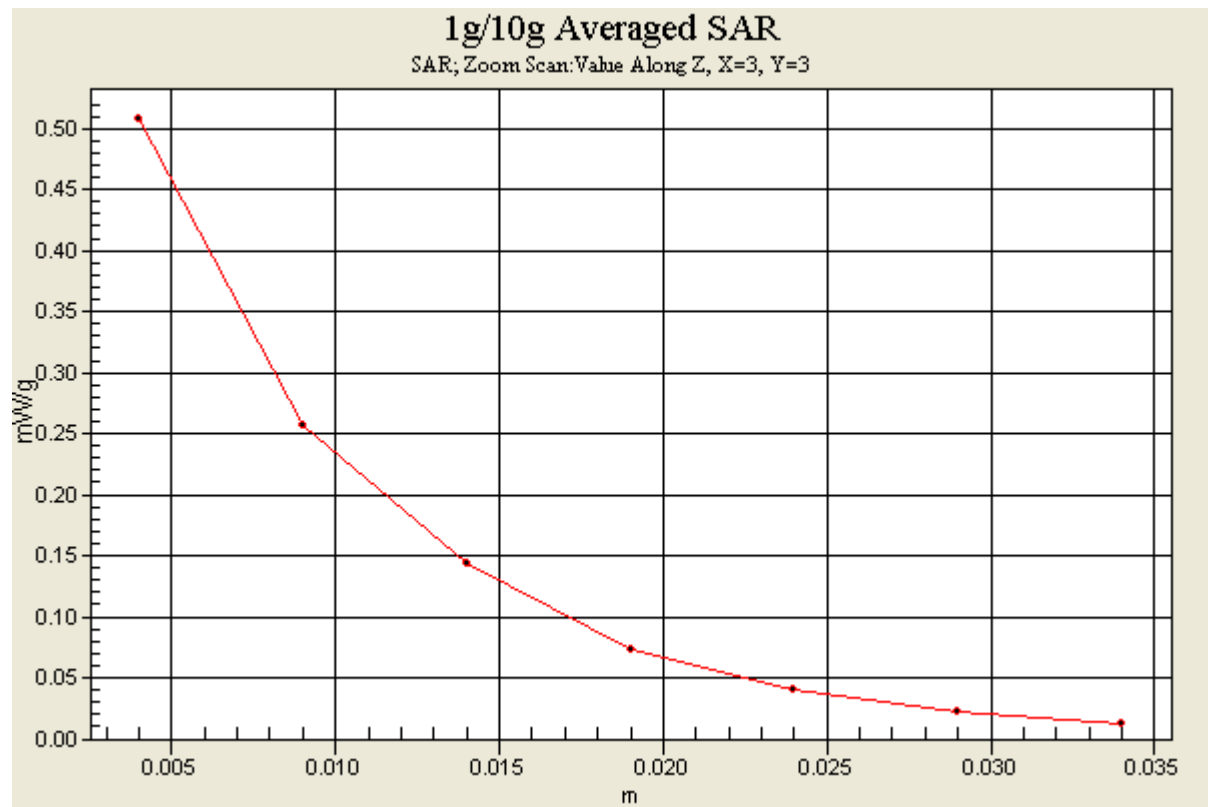
Reference Value = 12.7 V/m

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.467 mW/g; SAR(10 g) = 0.225 mW/g

Maximum value of SAR (measured) = 0.508 mW/g





Date/Time: 2005/7/5 15:00:23

Test Laboratory: Advance Data Technology

NUB-8301 Vertical 11b N800C Mode 3

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK
Medium: MSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³ ; Liquid level : 151mm

Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

High Channel 11/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.486 mW/g

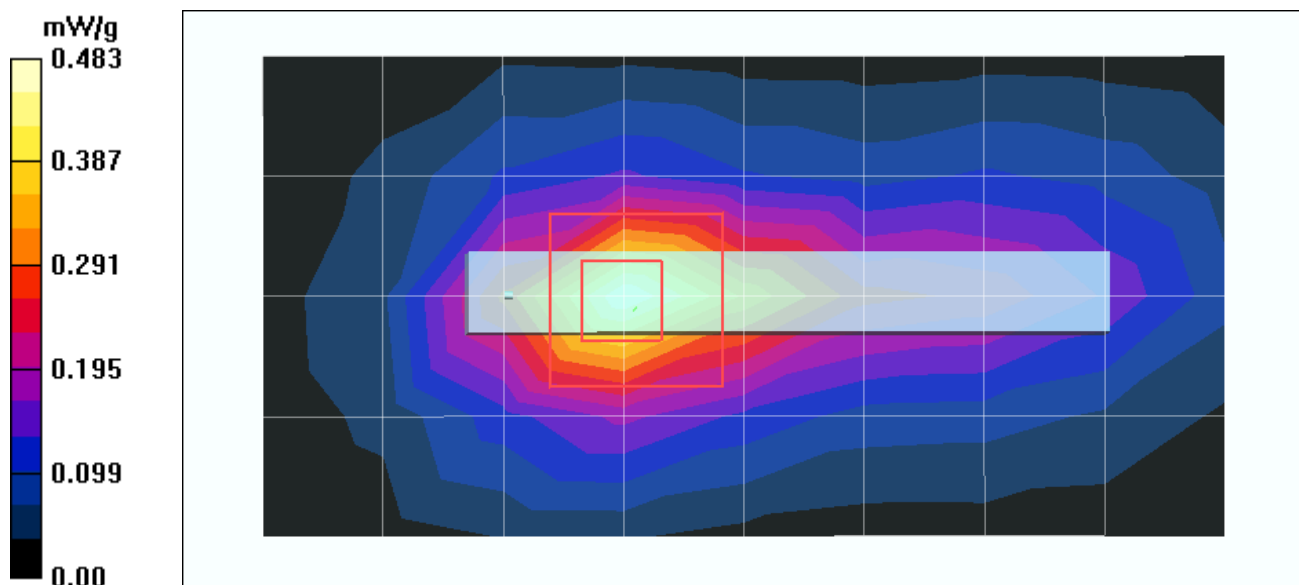
High Channel 11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.2 V/m

Peak SAR (extrapolated) = 0.991 W/kg

SAR(1 g) = 0.442 mW/g; SAR(10 g) = 0.212 mW/g

Maximum value of SAR (measured) = 0.483 mW/g



Date/Time: 2005/7/5 15:20:36

Test Laboratory: Advance Data Technology

NUB-8301 Vertical 11g N800C Mode 4

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 2412 MHz

Communication System: 802.11g ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.1$; $\rho = 1000$ kg/m³ ; Liquid level : 151mm

Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Low Channel 1/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.225 mW/g

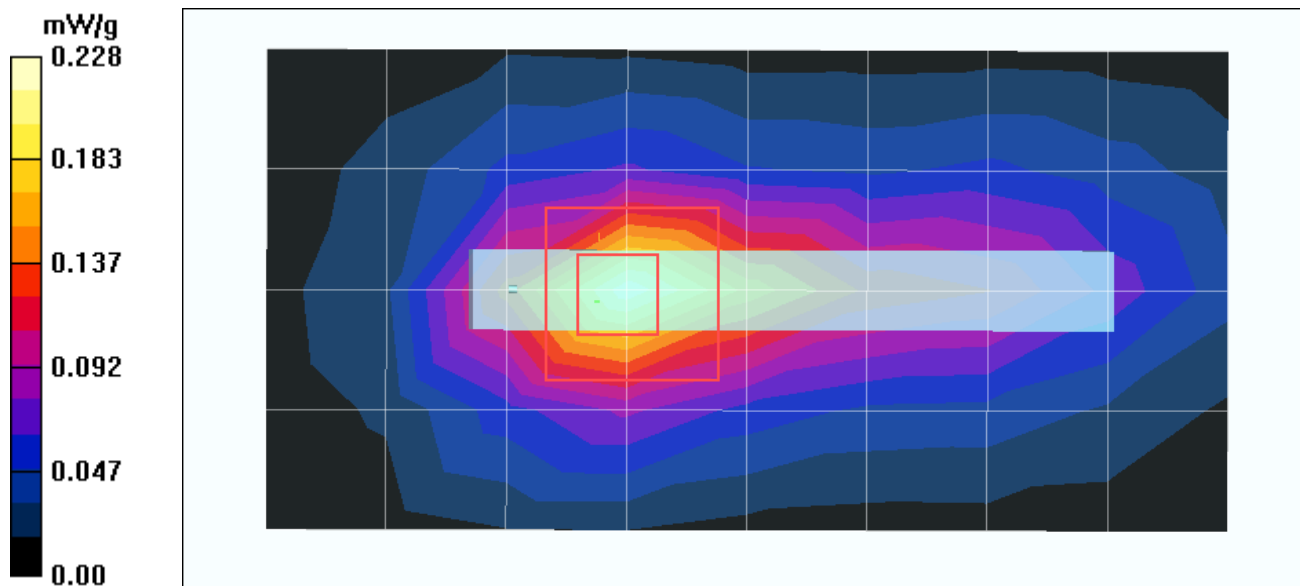
Low Channel 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.44 V/m

Peak SAR (extrapolated) = 0.467 W/kg

SAR(1 g) = 0.210 mW/g; SAR(10 g) = 0.102 mW/g

Maximum value of SAR (measured) = 0.228 mW/g



Date/Time: 2005/7/5 15:38:39

Test Laboratory: Advance Data Technology

NUB-8301 Vertical 11g N800C Mode 4

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 2437 MHz

Communication System: 802.11g ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³ ; Liquid level : 151mm

Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 6/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.328 mW/g

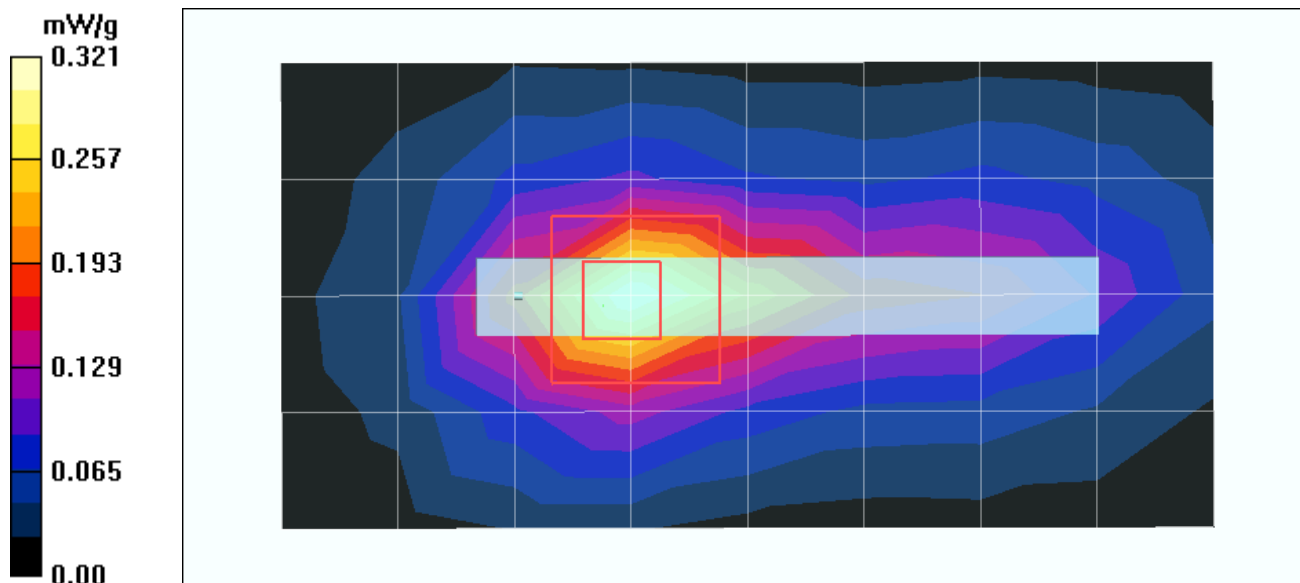
Mid Channel 6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.3 V/m

Peak SAR (extrapolated) = 0.658 W/kg

SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.143 mW/g

Maximum value of SAR (measured) = 0.321 mW/g



Date/Time: 2005/7/5 15:57:12

Test Laboratory: Advance Data Technology

NUB-8301 Vertical 11g N800C Mode 4

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 2462 MHz

Communication System: 802.11g ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 2.01$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³ ; Liquid level : 151mm

Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

High Channel 11/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.232 mW/g

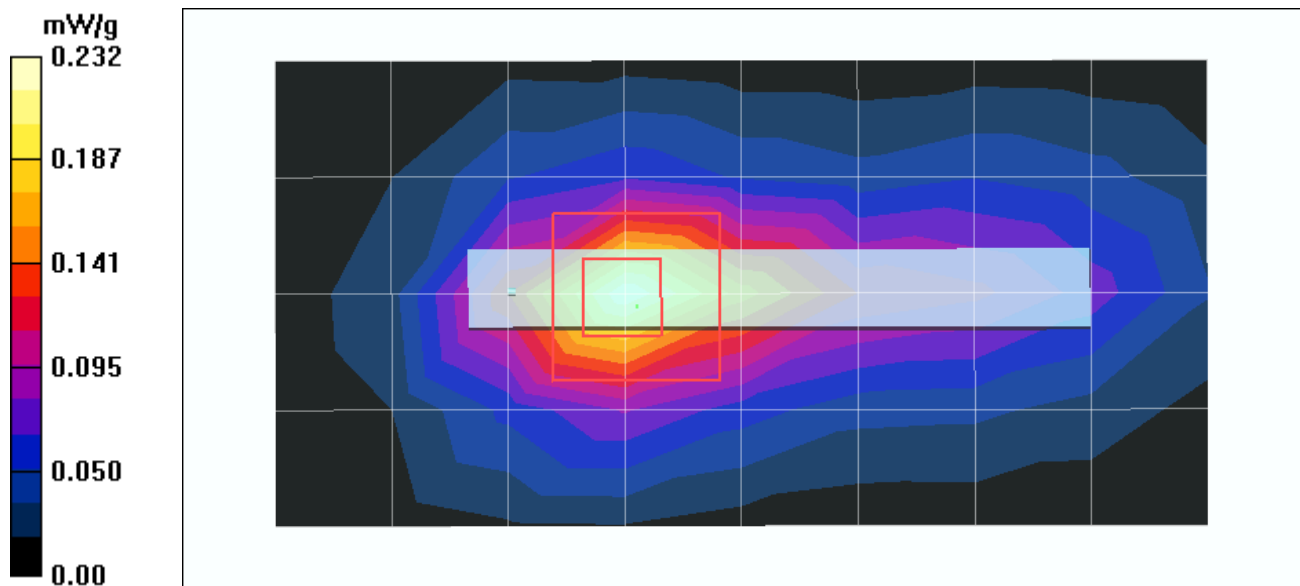
High Channel 11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.44 V/m

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.208 mW/g; SAR(10 g) = 0.100 mW/g

Maximum value of SAR (measured) = 0.225 mW/g



Date/Time: 2005/7/6 14:20:15

Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11a-Normal N800C Mode 5

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5180 MHz

Communication System: 802.11a ; Frequency: 5180 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL5800 Medium parameters used: $f = 5180$ MHz; $\sigma = 5.31$ mho/m; $\epsilon_r = 47.7$; $\rho = 1000$ kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.57, 4.57, 4.57) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Low Channel 5180/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.860 mW/g

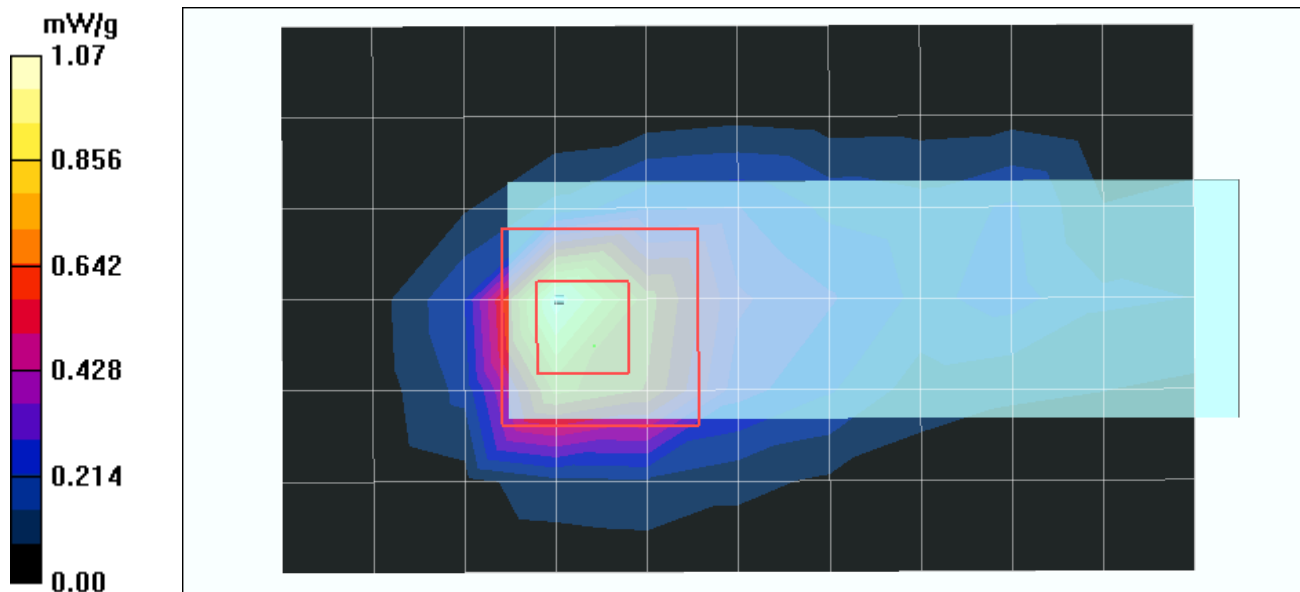
Low Channel 5180/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 10.6 V/m

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.615 mW/g; SAR(10 g) = 0.189 mW/g

Maximum value of SAR (measured) = 1.07 mW/g



Date/Time: 2005/7/6 14:46:06

Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11a-Normal N800C Mode 5

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5240 MHz

Communication System: 802.11a ; Frequency: 5240 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL5800 Medium parameters used: $f = 5240$ MHz; $\sigma = 5.39$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.57, 4.57, 4.57) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 5240/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.804 mW/g

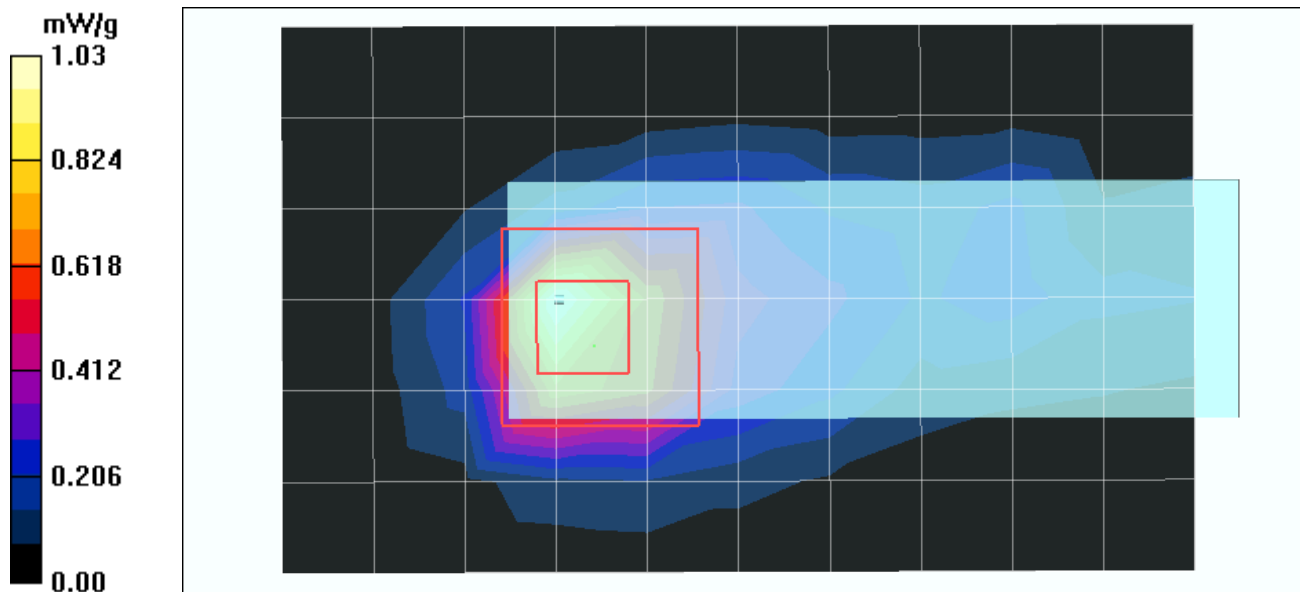
Mid Channel 5240/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 11.0 V/m

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 0.631 mW/g; SAR(10 g) = 0.195 mW/g

Maximum value of SAR (measured) = 1.03 mW/g



Date/Time: 2005/7/6 15:39:56

Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11a-Normal N800C Mode 5

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5260 MHz

Communication System: 802.11a ; Frequency: 5260 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL5800 Medium parameters used: $f = 5260$ MHz; $\sigma = 5.42$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.57, 4.57, 4.57) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 5260/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.05 mW/g

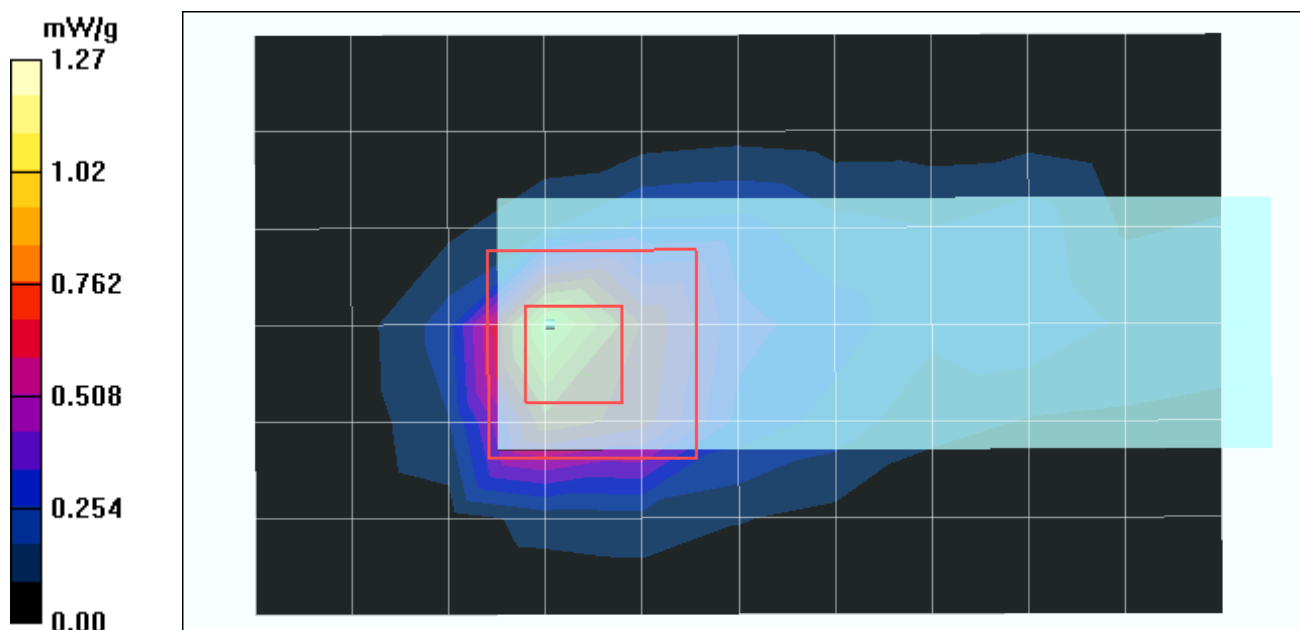
Mid Channel 5260/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

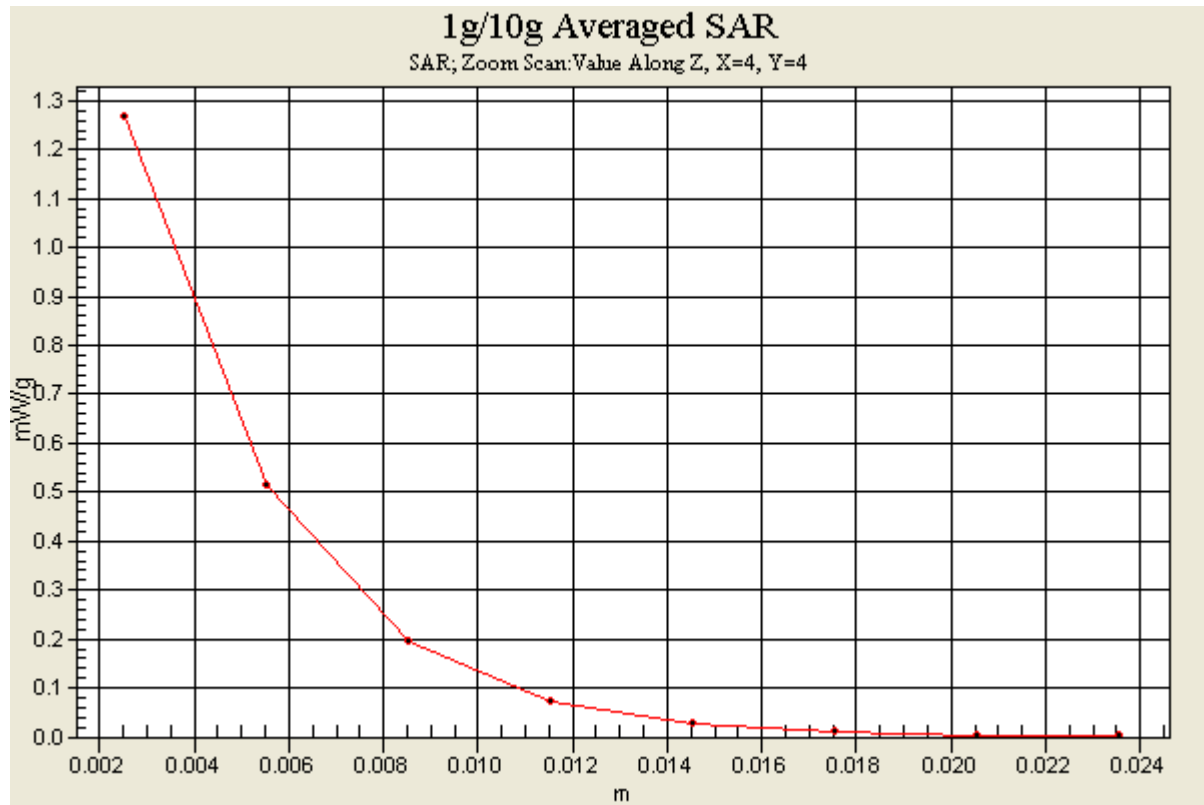
Reference Value = 11.3 V/m

Peak SAR (extrapolated) = 2.80 W/kg

SAR(1 g) = 0.744 mW/g; SAR(10 g) = 0.225 mW/g

Maximum value of SAR (measured) = 1.27 mW/g





Date/Time: 2005/7/6 16:07:52

Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11a-Normal N800C Mode 5

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5320 MHz

Communication System: 802.11a ; Frequency: 5320 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL5800 Medium parameters used: $f = 5320$ MHz; $\sigma = 5.51$ mho/m; $\epsilon_r = 47.4$; $\rho = 1000$ kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.57, 4.57, 4.57) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 5320/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.477 mW/g

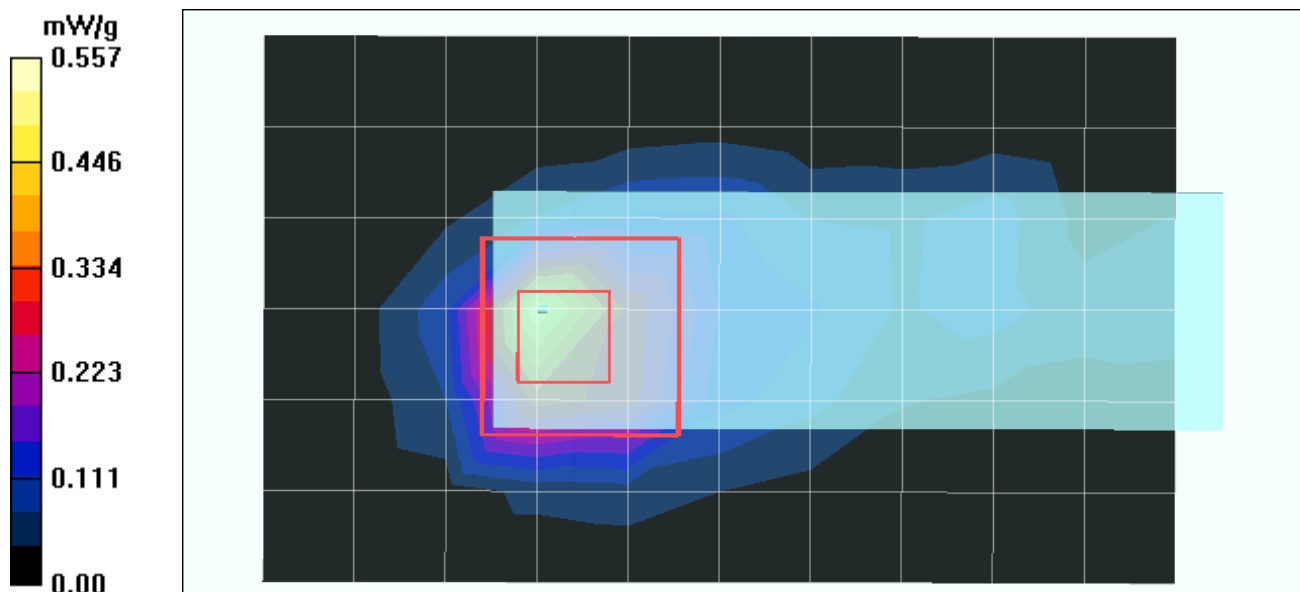
Mid Channel 5320/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 7.59 V/m

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.325 mW/g; SAR(10 g) = 0.096 mW/g

Maximum value of SAR (measured) = 0.557 mW/g



Date/Time: 2005/7/6 16:36:59

Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11a-Normal N800C Mode 5

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5745 MHz

Communication System: 802.11a ; Frequency: 5745 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL5800 Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.13 \text{ mho/m}$; $\epsilon_r = 46.5$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.19, 4.19, 4.19) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 5745/Area Scan (7x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 1.17 mW/g

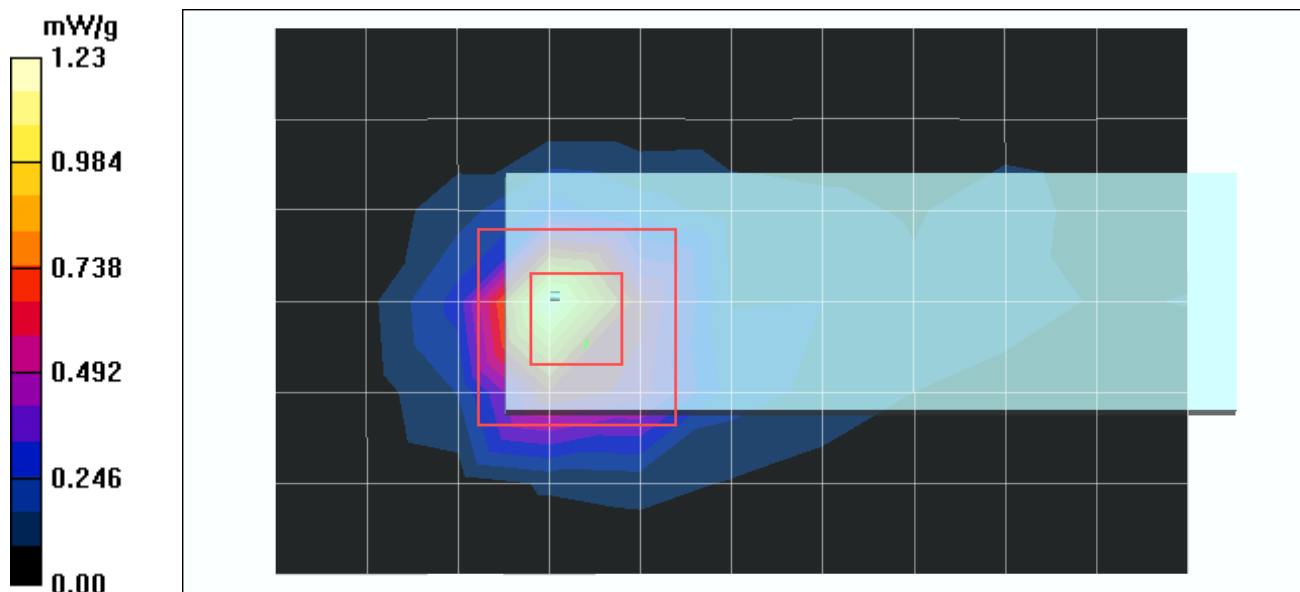
Mid Channel 5745/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$

Reference Value = 11.2 V/m

Peak SAR (extrapolated) = 3.04 W/kg

SAR(1 g) = 0.726 mW/g; SAR(10 g) = 0.207 mW/g

Maximum value of SAR (measured) = 1.23 mW/g



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Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11a-Normal N800C Mode 5

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5785 MHz

Communication System: 802.11a ; Frequency: 5785 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL5800 Medium parameters used: $f = 5785$ MHz; $\sigma = 6.19$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$ kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.19, 4.19, 4.19) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 5785/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.714 mW/g

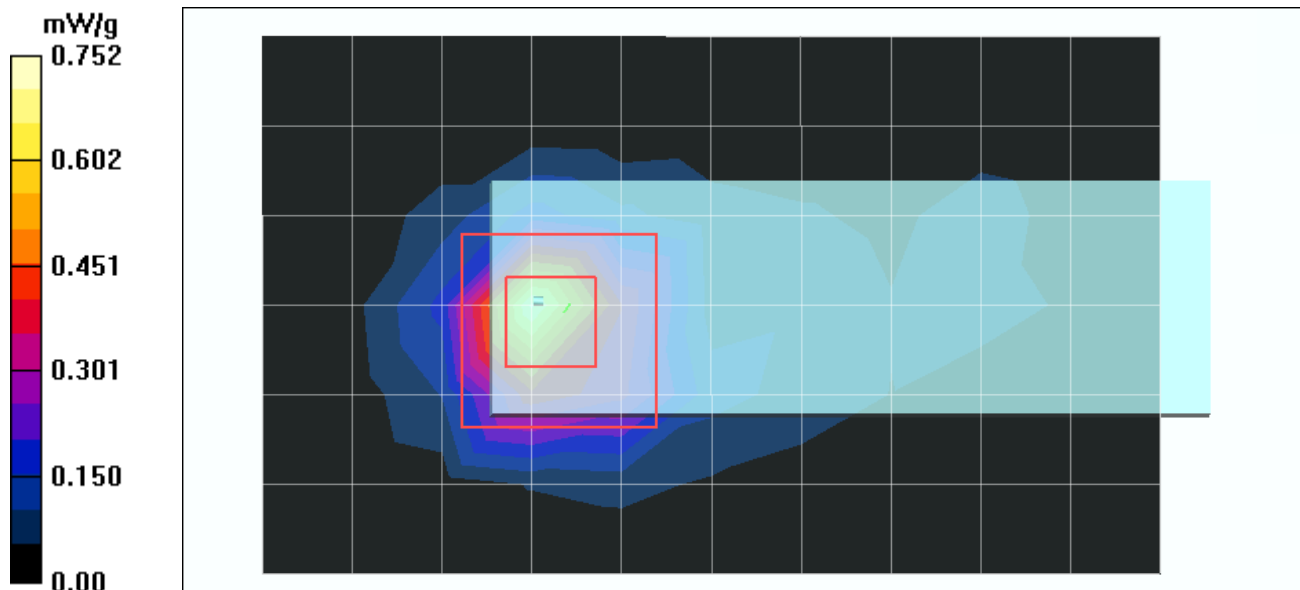
Mid Channel 5785/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 8.52 V/m

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 0.439 mW/g; SAR(10 g) = 0.124 mW/g

Maximum value of SAR (measured) = 0.752 mW/g



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Test Laboratory: Advance Data Technology

NUB-8301 Horizontal 11a-Normal N800C Mode 5

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5825 MHz

Communication System: 802.11a ; Frequency: 5825 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL5800 Medium parameters used: $f = 5825$ MHz; $\sigma = 6.25$ mho/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.19, 4.19, 4.19) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

High Channel 5825/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.593 mW/g

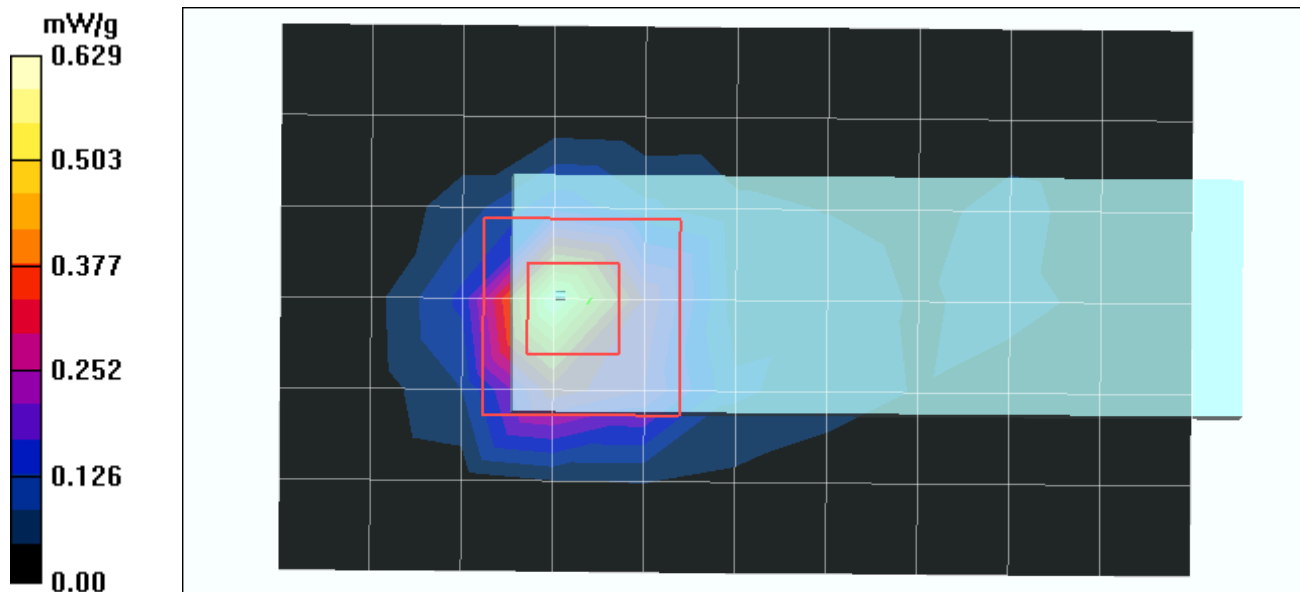
High Channel 5825/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 7.85 V/m

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.367 mW/g; SAR(10 g) = 0.100 mW/g

Maximum value of SAR (measured) = 0.629 mW/g



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Test Laboratory: Advance Data Technology

NUB-8301 Vertical 11a-Normal C600 Mode 6

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5180 MHz

Communication System: 802.11a ; Frequency: 5180 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL5800 Medium parameters used: $f = 5180$ MHz; $\sigma = 5.31$ mho/m; $\epsilon_r = 47.7$; $\rho = 1000$ kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.57, 4.57, 4.57) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Low Channel 5180/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.425 mW/g

Low Channel 5180/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 6.23 V/m

Peak SAR (extrapolated) = 0.789 W/kg

SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.080 mW/g

Maximum value of SAR (measured) = 0.400 mW/g

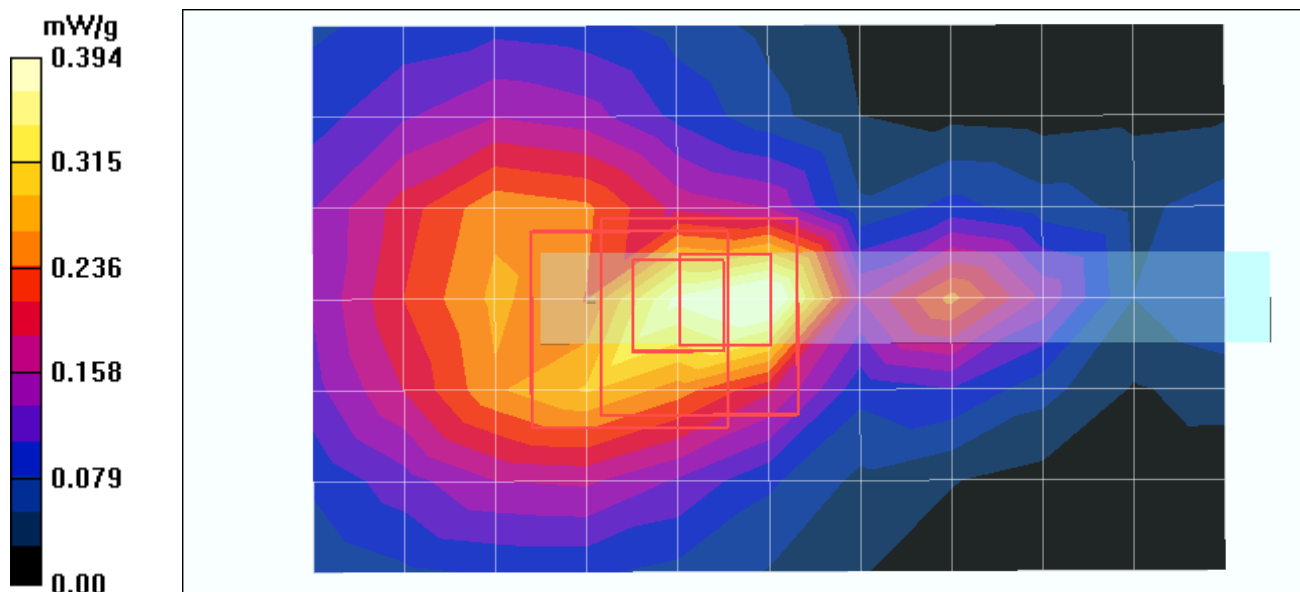
Low Channel 5180/Zoom Scan (8x8x8)/Cube 1: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 6.23 V/m

Peak SAR (extrapolated) = 0.807 W/kg

SAR(1 g) = 0.198 mW/g; SAR(10 g) = 0.076 mW/g

Maximum value of SAR (measured) = 0.394 mW/g



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Test Laboratory: Advance Data Technology

NUB-8301 Vertical 11a-Normal C600 Mode 6

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5240 MHz

Communication System: 802.11a ; Frequency: 5240 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL5800 Medium parameters used: $f = 5240$ MHz; $\sigma = 5.39$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.57, 4.57, 4.57) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 5240/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.366 mW/g

Mid Channel 5240/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 5.34 V/m

Peak SAR (extrapolated) = 0.786 W/kg

SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.080 mW/g

Maximum value of SAR (measured) = 0.386 mW/g

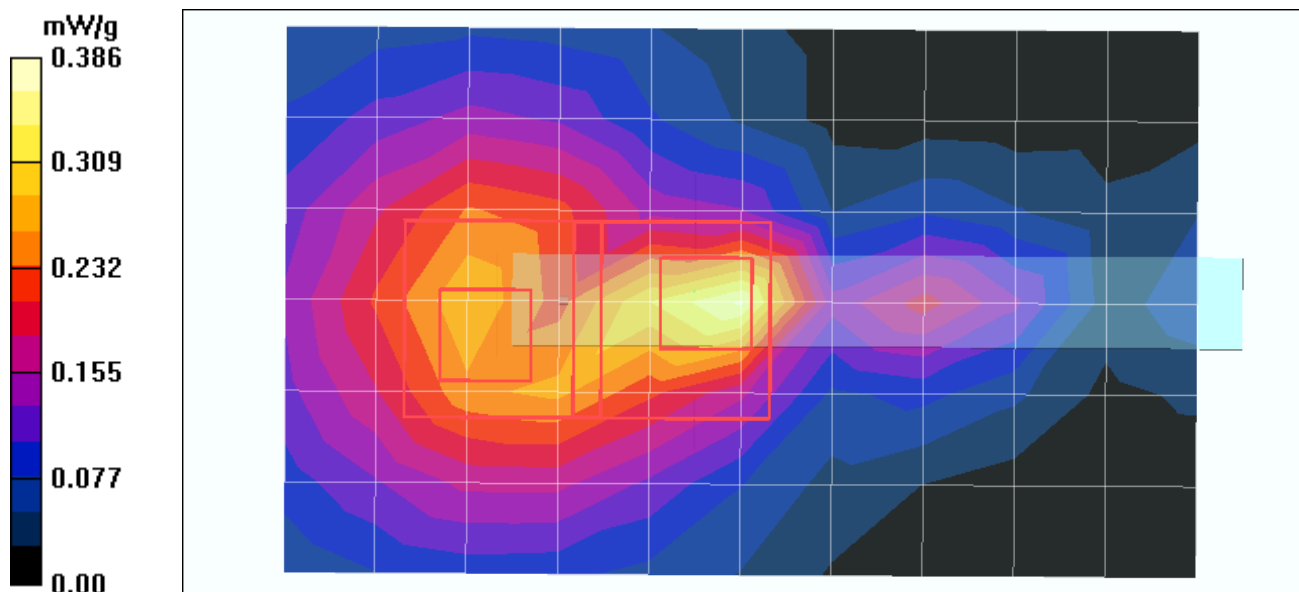
Mid Channel 5240/Zoom Scan (8x8x8)/Cube 1: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 5.34 V/m

Peak SAR (extrapolated) = 0.561 W/kg

SAR(1 g) = 0.182 mW/g; SAR(10 g) = 0.080 mW/g

Maximum value of SAR (measured) = 0.287 mW/g



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Test Laboratory: Advance Data Technology

NUB-8301 Vertical 11a-Normal C600 Mode 6

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5260 MHz

Communication System: 802.11a ; Frequency: 5260 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL5800 Medium parameters used: $f = 5260$ MHz; $\sigma = 5.42$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$ kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.57, 4.57, 4.57) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 5260/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.371 mW/g

Mid Channel 5260/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 5.65 V/m

Peak SAR (extrapolated) = 0.843 W/kg

SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.085 mW/g

Maximum value of SAR (measured) = 0.407 mW/g

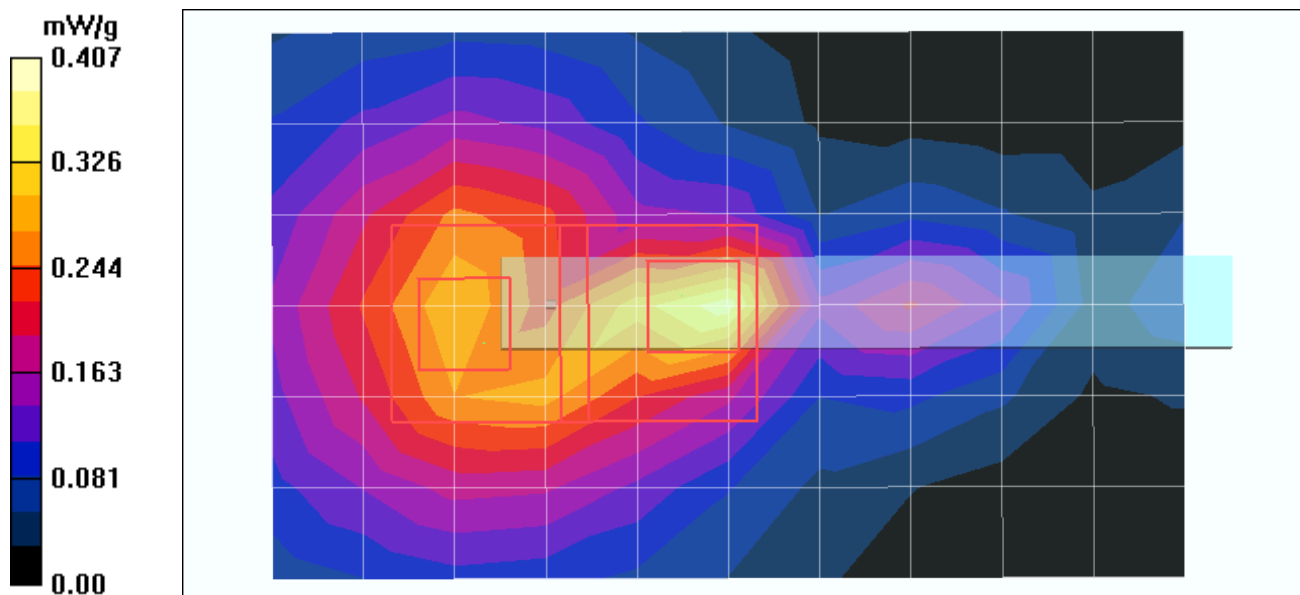
Mid Channel 5260/Zoom Scan (8x8x8)/Cube 1: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

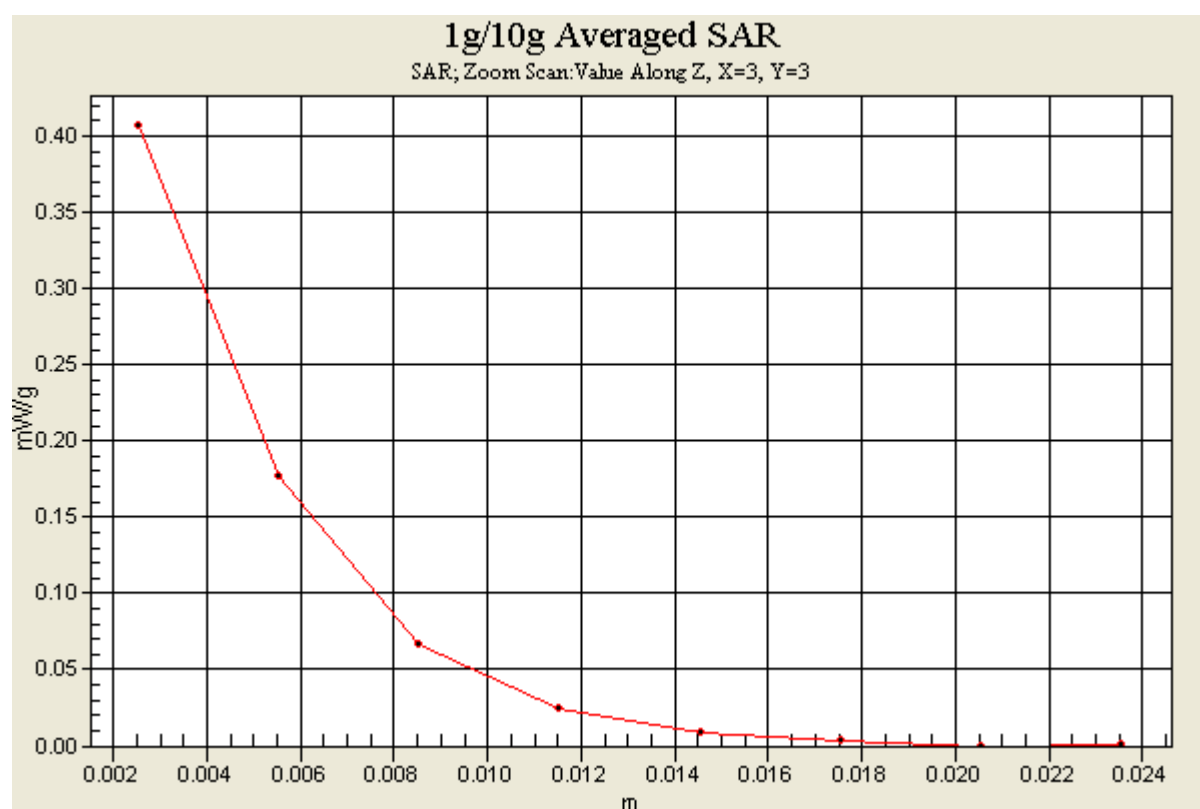
Reference Value = 5.65 V/m

Peak SAR (extrapolated) = 0.602 W/kg

SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.088 mW/g

Maximum value of SAR (measured) = 0.309 mW/g





Date/Time: 2005/7/6 20:27:04

Test Laboratory: Advance Data Technology

NUB-8301 Vertical 11a-Normal C600 Mode 6

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5320 MHz

Communication System: 802.11a ; Frequency: 5320 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL5800 Medium parameters used: $f = 5320$ MHz; $\sigma = 5.51$ mho/m; $\epsilon_r = 47.4$; $\rho = 1000$ kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.57, 4.57, 4.57) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 5320/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.154 mW/g

Mid Channel 5320/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm; Reference Value = 3.67 V/m

Peak SAR (extrapolated) = 0.315 W/kg

SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.033 mW/g

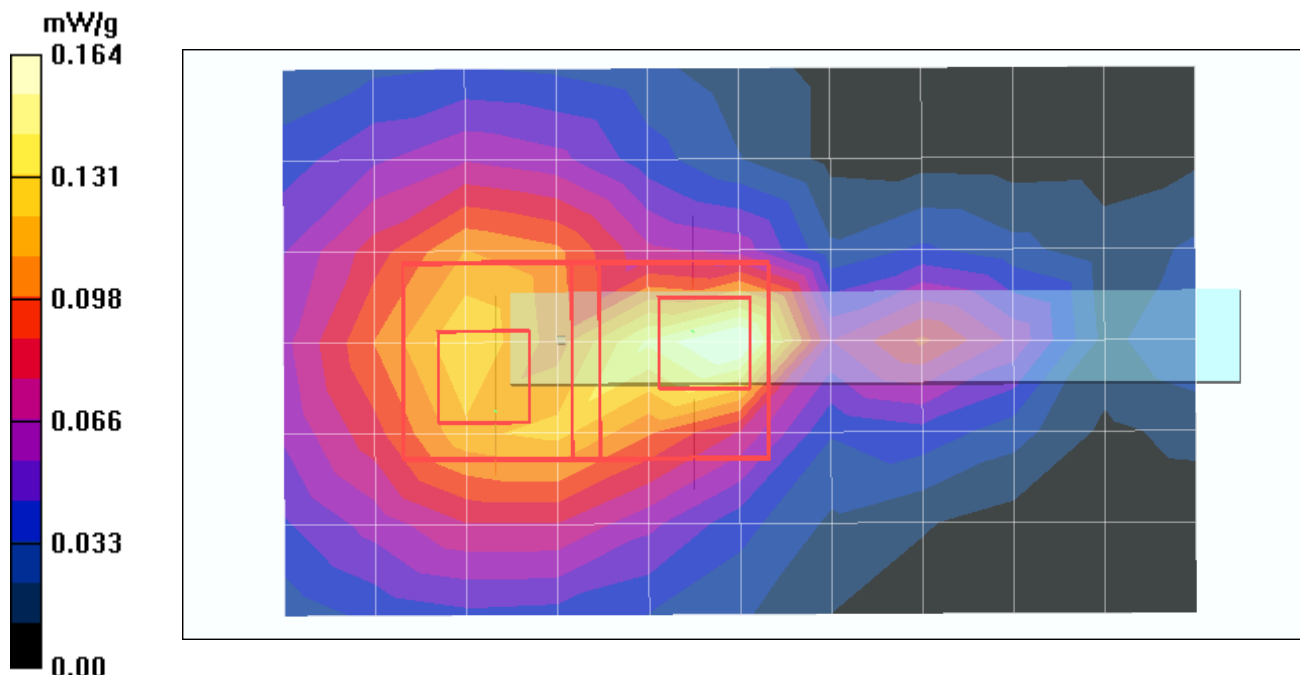
Maximum value of SAR (measured) = 0.164 mW/g

Mid Channel 5320/Zoom Scan (8x8x8)/Cube 1: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm; Reference Value = 3.67 V/m

Peak SAR (extrapolated) = 0.295 W/kg

SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.024 mW/g

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



Test Laboratory: Advance Data Technology

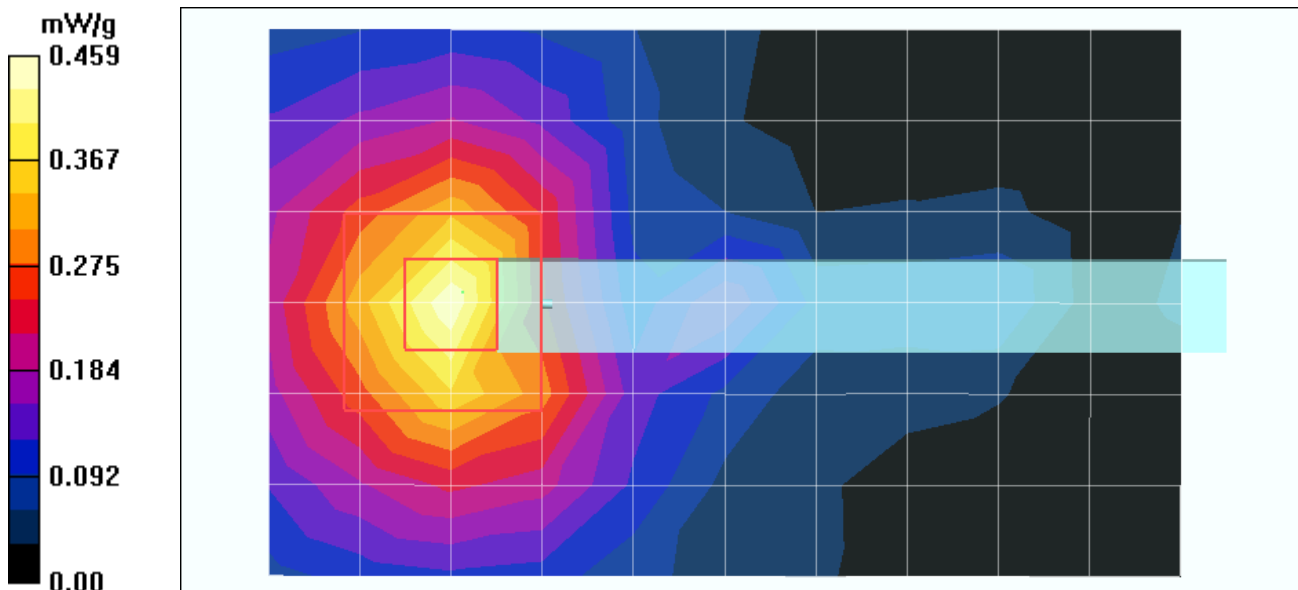
NUB-8301 Vertical 11a-Normal C600 Mode 6

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5745 MHz

Communication System: 802.11a ; Frequency: 5745 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
Medium: MSL5800 Medium parameters used: $f = 5745 \text{ MHz}$; $\sigma = 6.13 \text{ mho/m}$; $\epsilon_r = 46.5$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150mm
Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)
Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees
DASY4 Configuration:
- Probe: EX3DV3 - SN3506 ; ConvF(4.19, 4.19, 4.19) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 5745/Area Scan (7x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 0.458 mW/g

Mid Channel 5745/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$
Reference Value = 5.08 V/m
Peak SAR (extrapolated) = 0.976 W/kg
SAR(1 g) = 0.280 mW/g; SAR(10 g) = 0.111 mW/g
Maximum value of SAR (measured) = 0.459 mW/g



Date/Time: 2005/7/6 21:20:40

Test Laboratory: Advance Data Technology

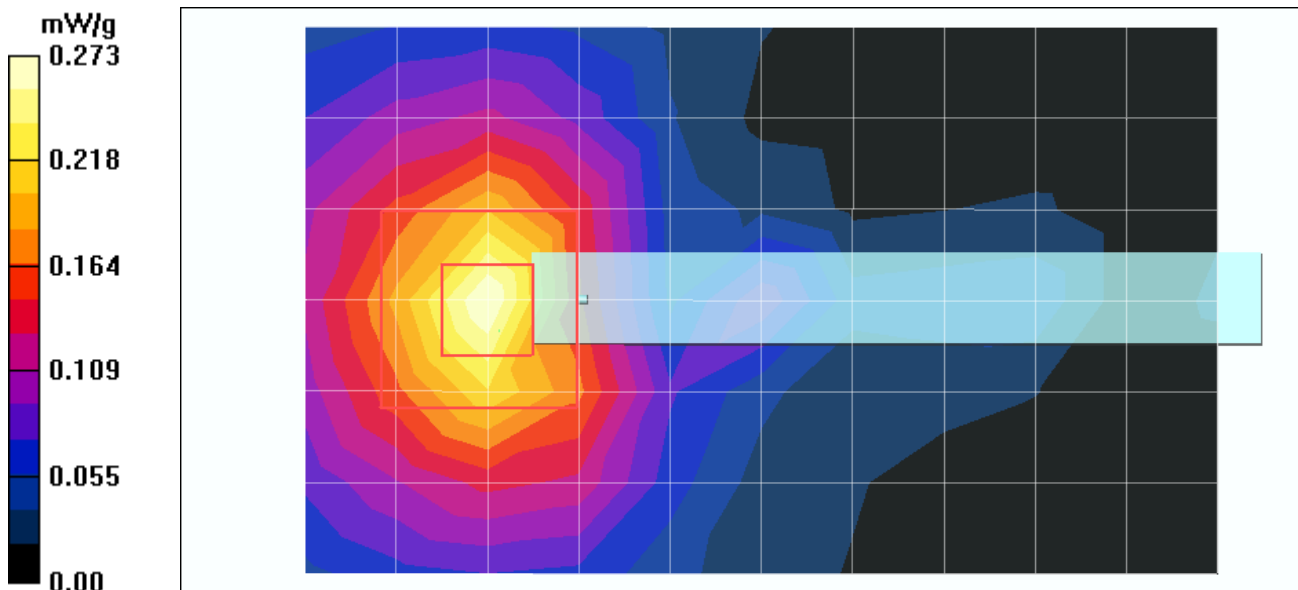
NUB-8301 Vertical 11a-Normal C600 Mode 6

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5785 MHz

Communication System: 802.11a ; Frequency: 5785 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
 Medium: MSL5800 Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 6.19 \text{ mho/m}$; $\epsilon_r = 46.4$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150mm
 Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)
 Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees
 DASY4 Configuration:
 - Probe: EX3DV3 - SN3506 ; ConvF(4.19, 4.19, 4.19) ; Calibrated: 2004/3/19
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
 - Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
 - Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

Mid Channel 5785/Area Scan (7x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 0.278 mW/g

Mid Channel 5785/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$
 Reference Value = 3.97 V/m
 Peak SAR (extrapolated) = 0.595 W/kg
SAR(1 g) = 0.168 mW/g; SAR(10 g) = 0.066 mW/g
 Maximum value of SAR (measured) = 0.273 mW/g



Date/Time: 2005/7/6 21:48:59

Test Laboratory: Advance Data Technology

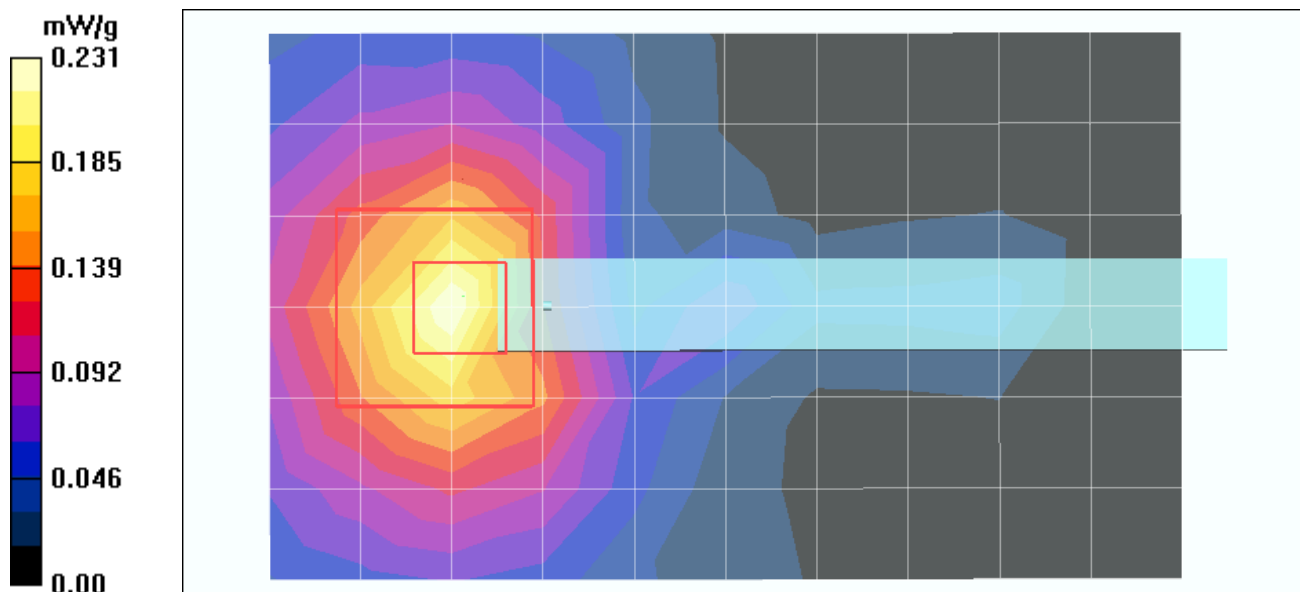
NUB-8301 Vertical 11a-Normal C600 Mode 6

DUT: Wireless 802.11a/b/g USB Dongle ; Type: NUB-8301 ; Test Frequency: 5825 MHz

Communication System: 802.11a ; Frequency: 5825 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM
 Medium: MSL5800 Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 6.25 \text{ mho/m}$; $\epsilon_r = 46.3$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150mm
 Phantom section: Flat Section ; Separation distance : 6 mm (The lateral side of the EUT to the Phantom)
 Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees
 DASY4 Configuration:
 - Probe: EX3DV3 - SN3506 ; ConvF(4.19, 4.19, 4.19) ; Calibrated: 2004/3/19
 - Sensor-Surface: 2.5mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn579 ; Calibrated: 2005/3/23
 - Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
 - Measurement SW: DASY4, V4.5 Build 19 ; Postprocessing SW: SEMCAD, V1.8 Build 146

High Channel 5825/Area Scan (7x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 0.233 mW/g

High Channel 5825/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$
 Reference Value = 3.59 V/m
 Peak SAR (extrapolated) = 0.512 W/kg
SAR(1 g) = 0.143 mW/g; SAR(10 g) = 0.056 mW/g
 Maximum value of SAR (measured) = 0.231 mW/g



Date/Time: 2005/7/5 10:48:00

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; $\sigma = 2$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³ ;
Liquid level : 151 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.35, 4.35, 4.35) ; Calibrated: 2004/12/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Pin=250mW/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 13.5 mW/g

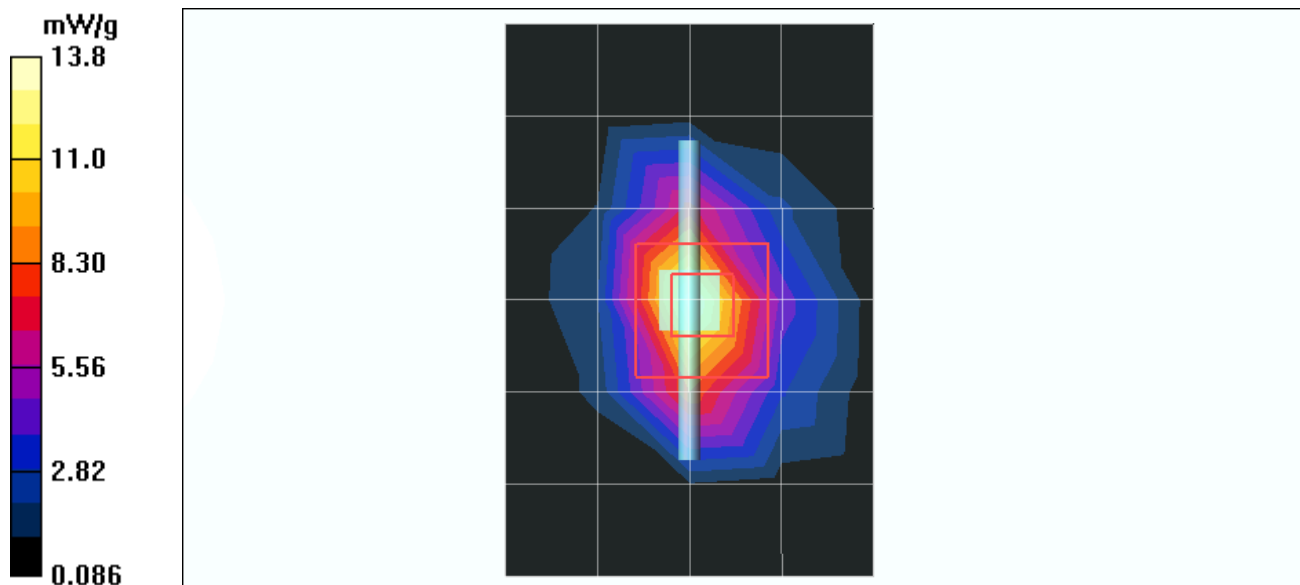
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.7 V/m; Power Drift = -0.226 dB

Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 12.4 mW/g; SAR(10 g) = 5.68 mW/g

Maximum value of SAR (measured) = 13.8 mW/g



Test Laboratory: Advance Data Technology

System Validation Check-MSL 5GHz

DUT: Dipole 5 GHz ; Type: D5GHzV2 ; Serial: 1019 ; Test Frequency: 5200 MHz

Communication System: CW ; Frequency: 5200 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL5800; Medium parameters used: $f = 5200$ MHz; $\sigma = 5.34$ mho/m; $\epsilon_r = 47.6$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.57, 4.57, 4.57) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

f=5200, d=10mm, Pin=250mW/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 24.2 mW/g

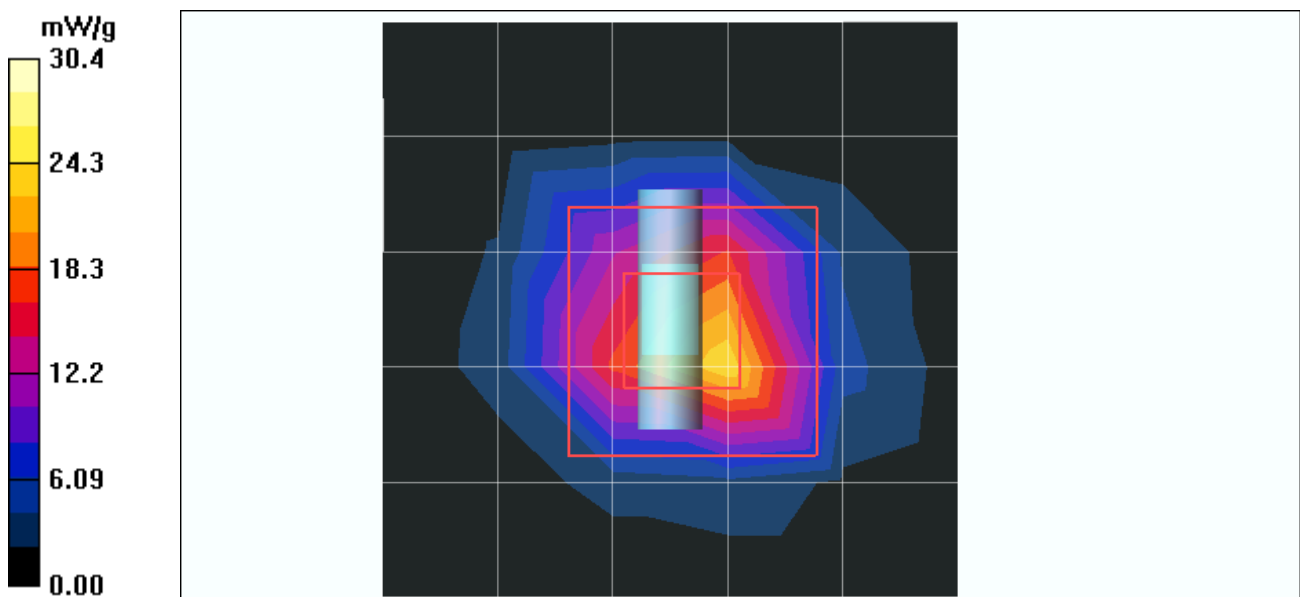
f=5200, d=10mm, Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 81.7 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 64.6 W/kg

SAR(1 g) = 17.5 mW/g; SAR(10 g) = 4.88 mW/g

Maximum value of SAR (measured) = 30.4 mW/g



Date/Time: 2005/7/6 13:49:46

Test Laboratory: Advance Data Technology

System Validation Check-MSL 5GHz

DUT: Dipole 5 GHz ; Type: D5GHzV2 ; Serial: 1019 ; Test Frequency: 5800 MHz

Communication System: CW ; Frequency: 5800 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL5800; Medium parameters used: $f = 5800$ MHz; $\sigma = 6.24$ mho/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³ ; Liquid level : 155 mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(4.19, 4.19, 4.19) ; Calibrated: 2004/3/19
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2005/3/23
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

f=5800, d=10mm, Pin=250mW/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 27.6 mW/g

f=5800, d=10mm, Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 70.9 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 70.4 W/kg

SAR(1 g) = 16.5 mW/g; SAR(10 g) = 4.57 mW/g

Maximum value of SAR (measured) = 27.1 mW/g

