

APPENDIX A: TEST DATA

Liquid Level Photo

MSL 2450MHz D=150mm



Test Laboratory: Advance Data Technology

D600-11b-Ch1-Mode 1

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2412 MHz

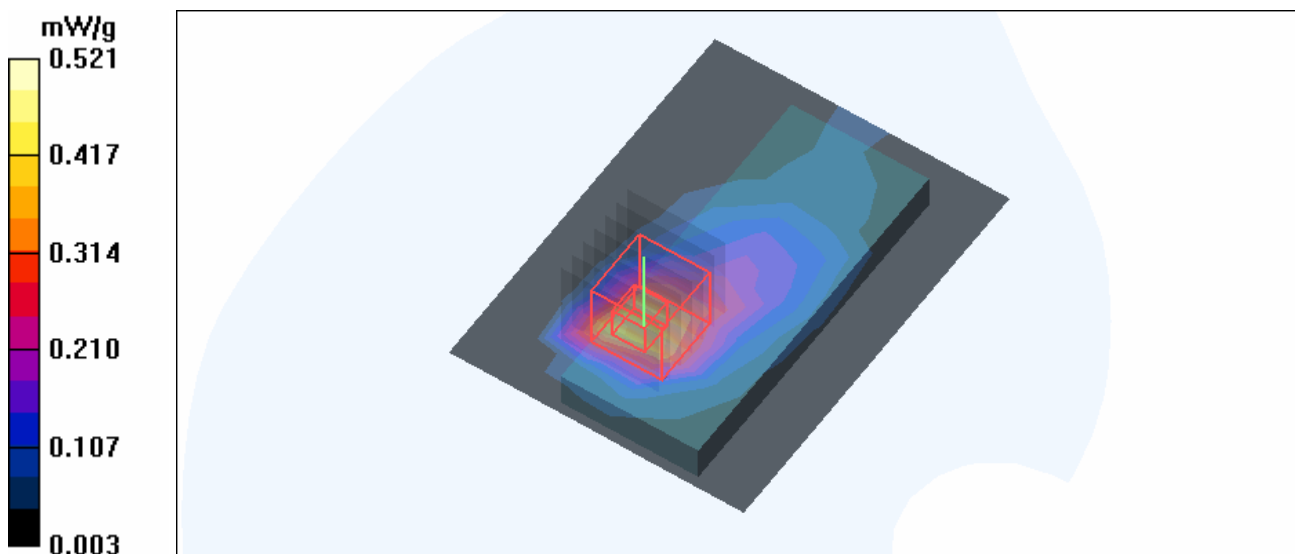
Communication System: 802.11b ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
Medium: MSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm
Phantom section: Flat Section ; Separation distance : 3 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.439 mW/g

Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.3 V/m
Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.491 mW/g; SAR(10 g) = 0.224 mW/g
Maximum value of SAR (measured) = 0.521 mW/g



Test Laboratory: Advance Data Technology

D600-11b-Ch6-Mode 1

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

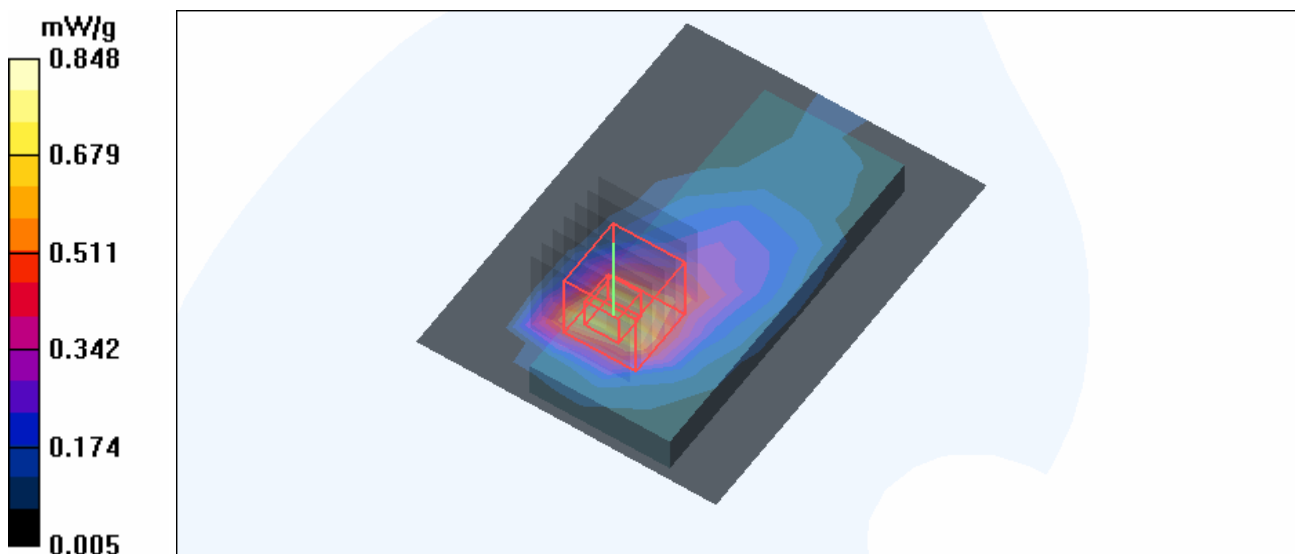
Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm
Phantom section: Flat Section ; Separation distance : 3 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.733 mW/g

Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.2 V/m
Peak SAR (extrapolated) = 2.22 W/kg
SAR(1 g) = 0.801 mW/g; SAR(10 g) = 0.368 mW/g
Maximum value of SAR (measured) = 0.848 mW/g



Test Laboratory: Advance Data Technology

D600-11b-Ch11-Mode 1

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2462 MHz

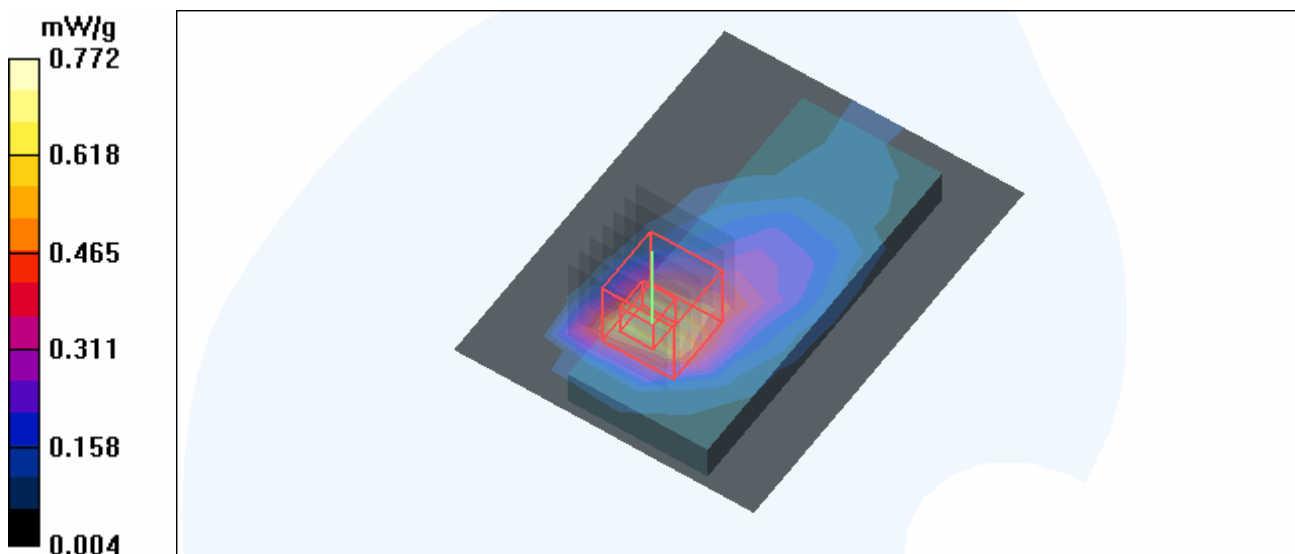
Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
 Medium: MSL2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.98 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm
 Phantom section: Flat Section ; Separation distance : 3 mm (The bottom side of the EUT to the Phantom)
 Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.644 mW/g

High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 17.8 V/m
 Peak SAR (extrapolated) = 2.05 W/kg
SAR(1 g) = 0.735 mW/g; SAR(10 g) = 0.339 mW/g
 Maximum value of SAR (measured) = 0.772 mW/g



Test Laboratory: Advance Data Technology

D600-11g-Ch1-Mode 2

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; 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; $\sigma = 1.91$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 3 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.812 mW/g

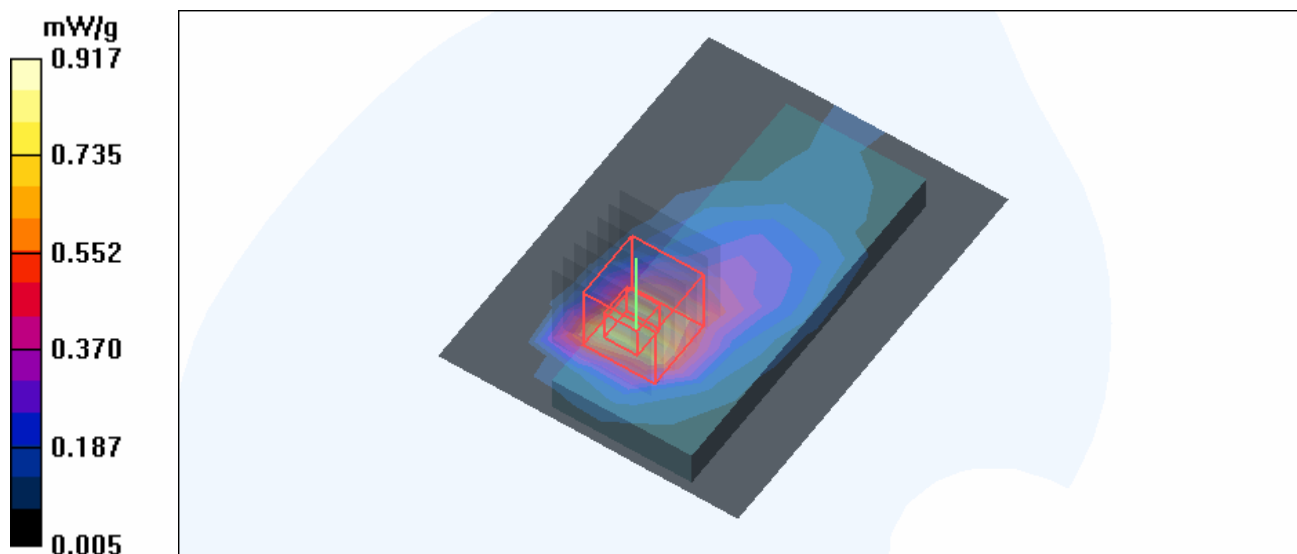
Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.1 V/m

Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 0.872 mW/g; SAR(10 g) = 0.399 mW/g

Maximum value of SAR (measured) = 0.917 mW/g



Test Laboratory: Advance Data Technology

D600-11g-Ch6-Mode 2

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11g ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 3 mm (The bottom side of the EUT to the Phantom)
 Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.936 mW/g

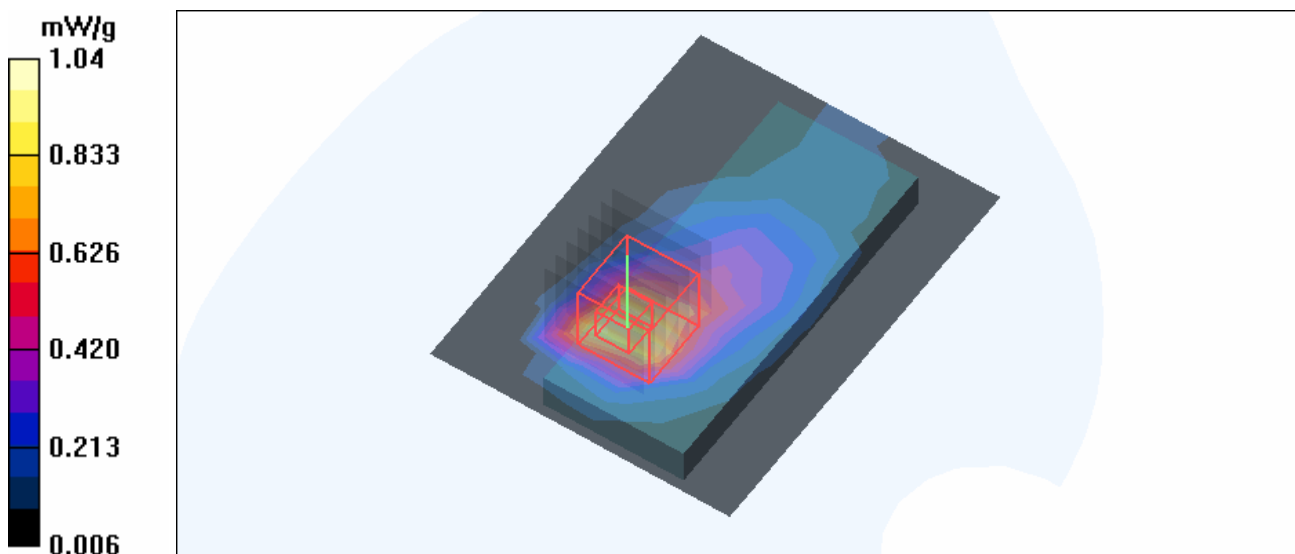
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.8 V/m

Peak SAR (extrapolated) = 2.77 W/kg

SAR(1 g) = 0.992 mW/g; SAR(10 g) = 0.459 mW/g

Maximum value of SAR (measured) = 1.04 mW/g



Test Laboratory: Advance Data Technology

D600-11g-Ch11-Mode 2

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2462 MHz

Communication System: 802.11g ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: MSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 3 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.543 mW/g

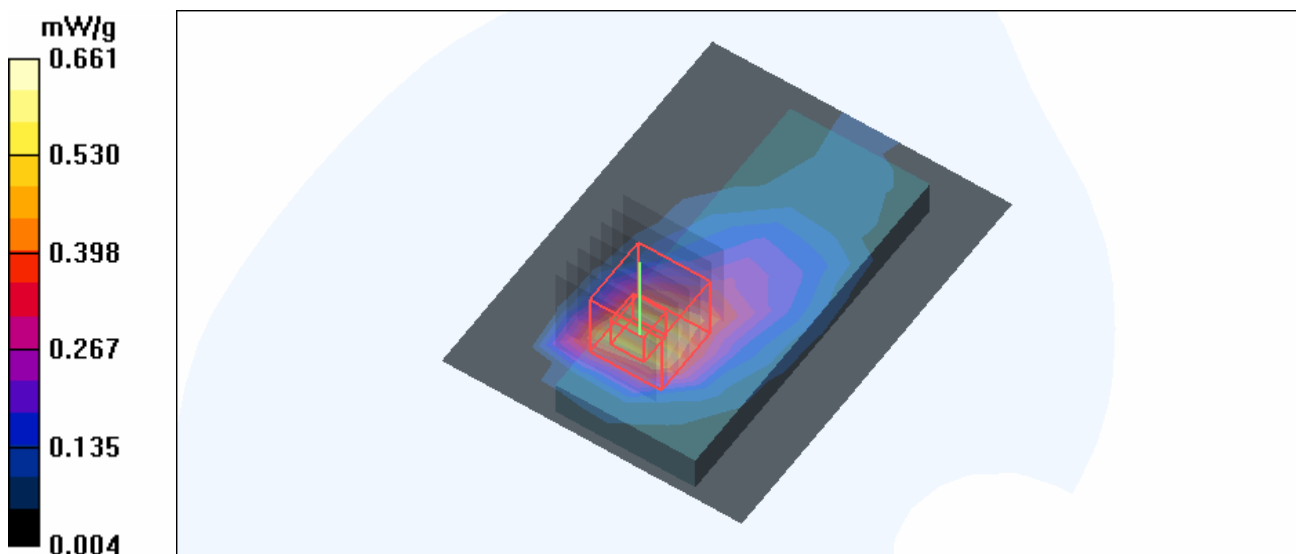
High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.2 V/m

Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.623 mW/g; SAR(10 g) = 0.288 mW/g

Maximum value of SAR (measured) = 0.661 mW/g



Test Laboratory: Advance Data Technology

D600-11n-20M-Ch1-Mode 3**DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2412 MHz**

Communication System: 802.11n ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: MSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 3 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.642 mW/g

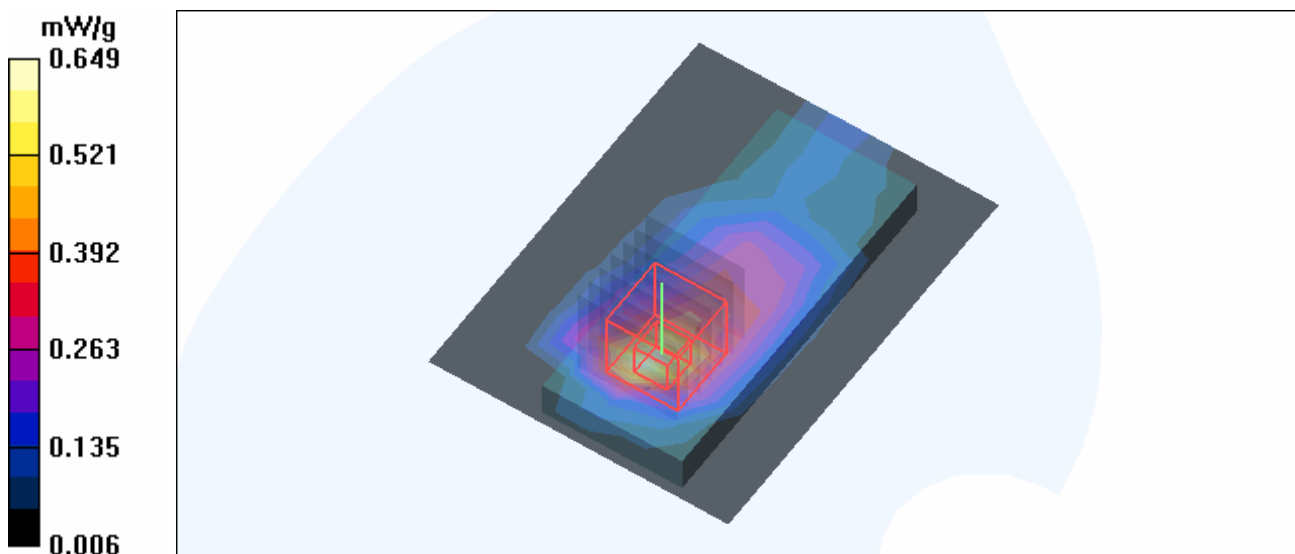
Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.1 V/m

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.584 mW/g; SAR(10 g) = 0.283 mW/g

Maximum value of SAR (measured) = 0.649 mW/g



Test Laboratory: Advance Data Technology

D600-11n-20M-Ch6-Mode 3

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11n ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 3 mm (The bottom side of the EUT to the Phantom)
 Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

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

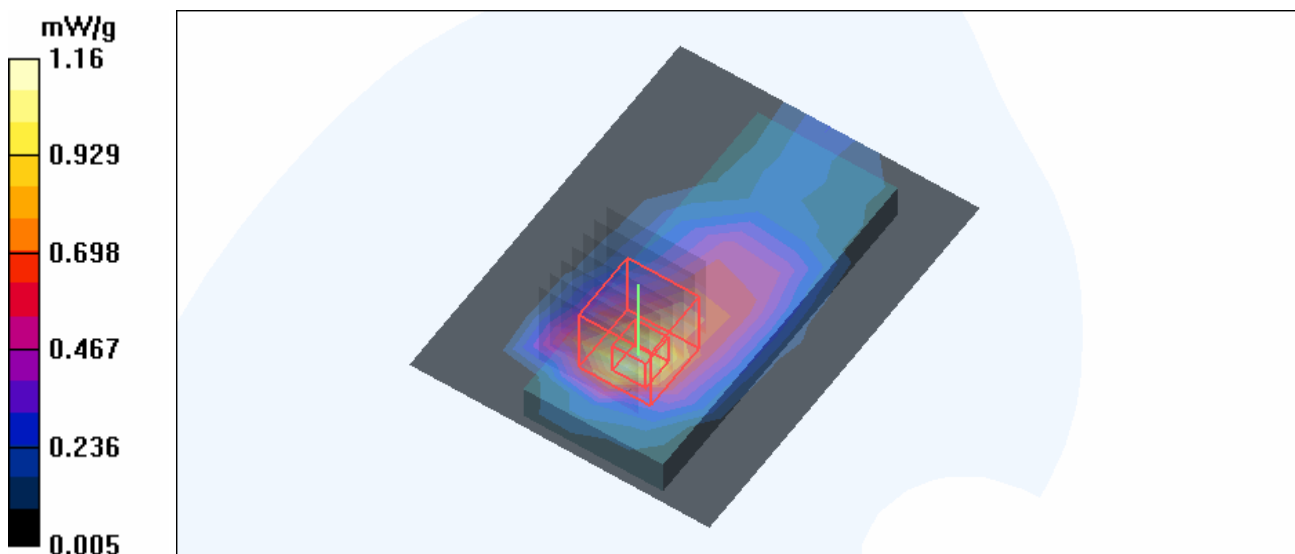
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

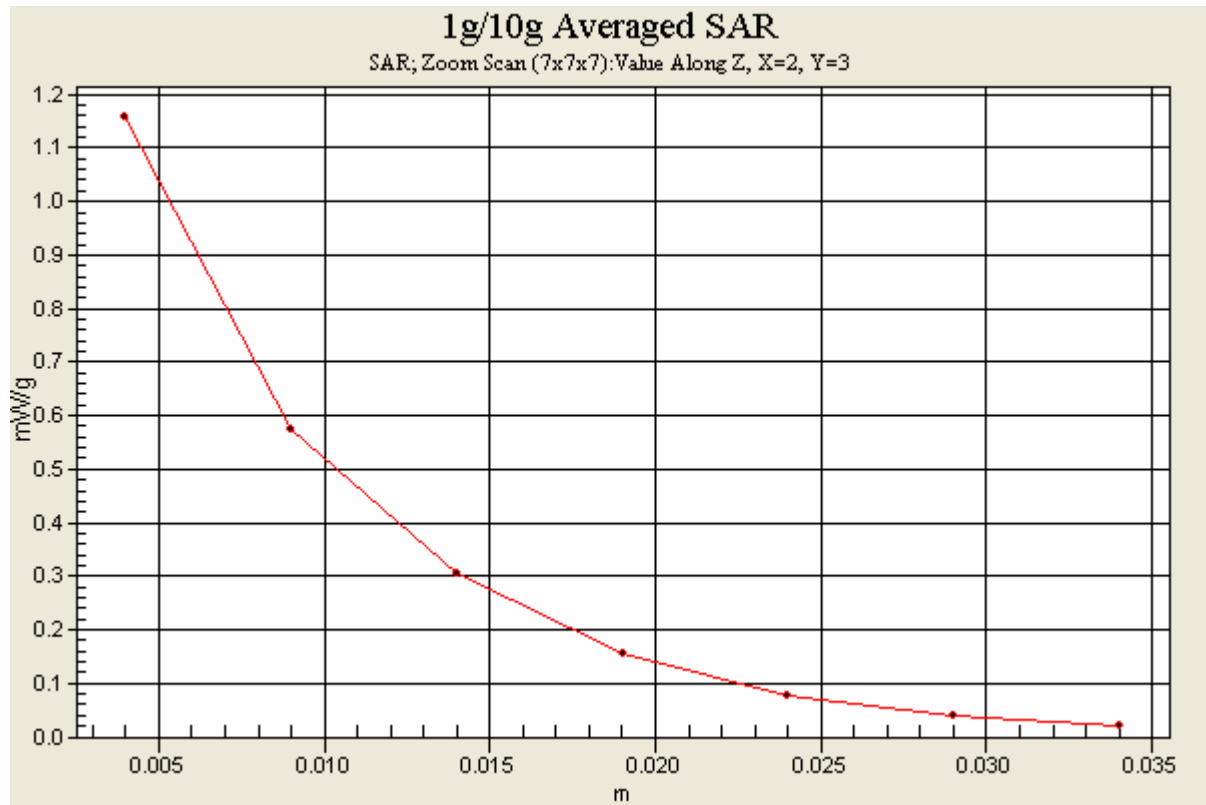
Reference Value = 25.2 V/m

Peak SAR (extrapolated) = 2.35 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.519 mW/g

Maximum value of SAR (measured) = 1.16 mW/g





Test Laboratory: Advance Data Technology

D600-11n-20M-Ch11-Mode 3

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2462 MHz

Communication System: 802.11n ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.98 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 3 mm (The bottom side of the EUT to the Phantom)
 Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.522 mW/g

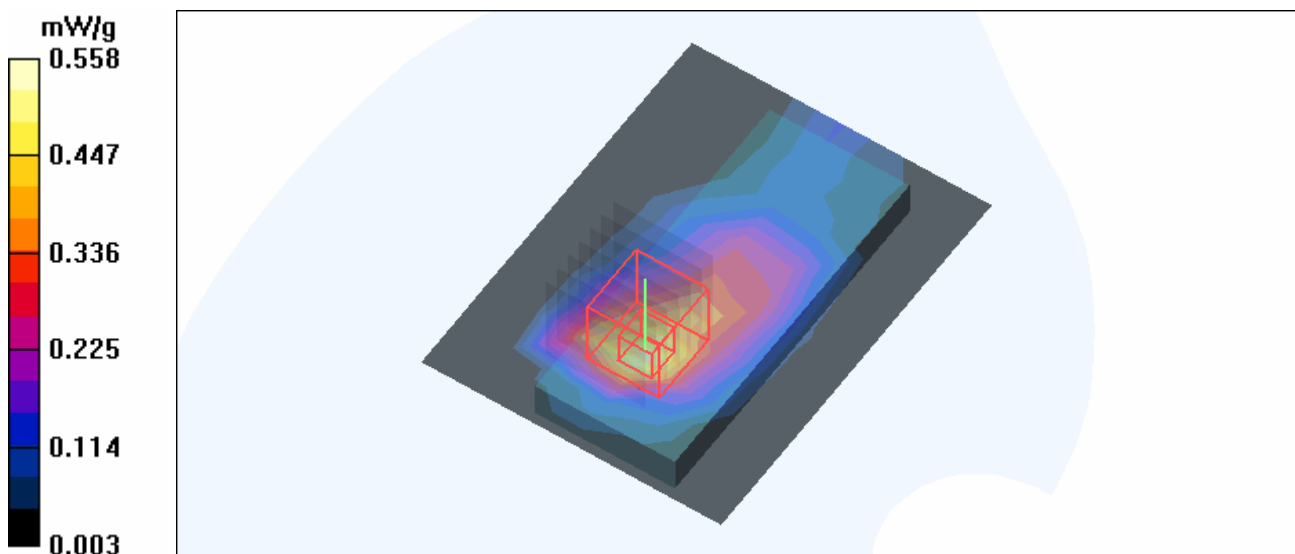
High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.9 V/m

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.260 mW/g

Maximum value of SAR (measured) = 0.558 mW/g



Test Laboratory: Advance Data Technology

D600-11n-40M-Ch1-Mode 4

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2422 MHz

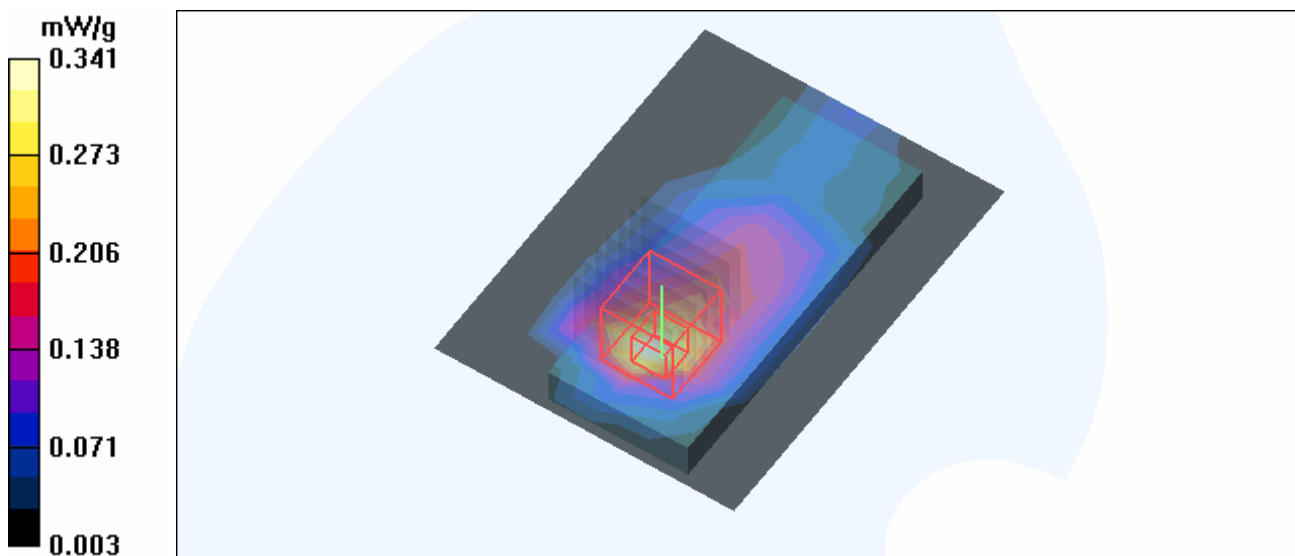
Communication System: 802.11n ; Frequency: 2422 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used : $f = 2422 \text{ MHz}$; $\sigma = 1.92 \text{ mho/m}$; $\epsilon_r = 52.8$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm
 Phantom section: Flat Section ; Separation distance : 3 mm (The bottom side of the EUT to the Phantom)
 Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.360 mW/g

Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 14.6 V/m
 Peak SAR (extrapolated) = 0.744 W/kg
SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.158 mW/g
 Maximum value of SAR (measured) = 0.341 mW/g



Test Laboratory: Advance Data Technology

D600-11n-40M-Ch4-Mode 4

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11n ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 3 mm (The bottom side of the EUT to the Phantom)
 Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 4/Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.454 mW/g

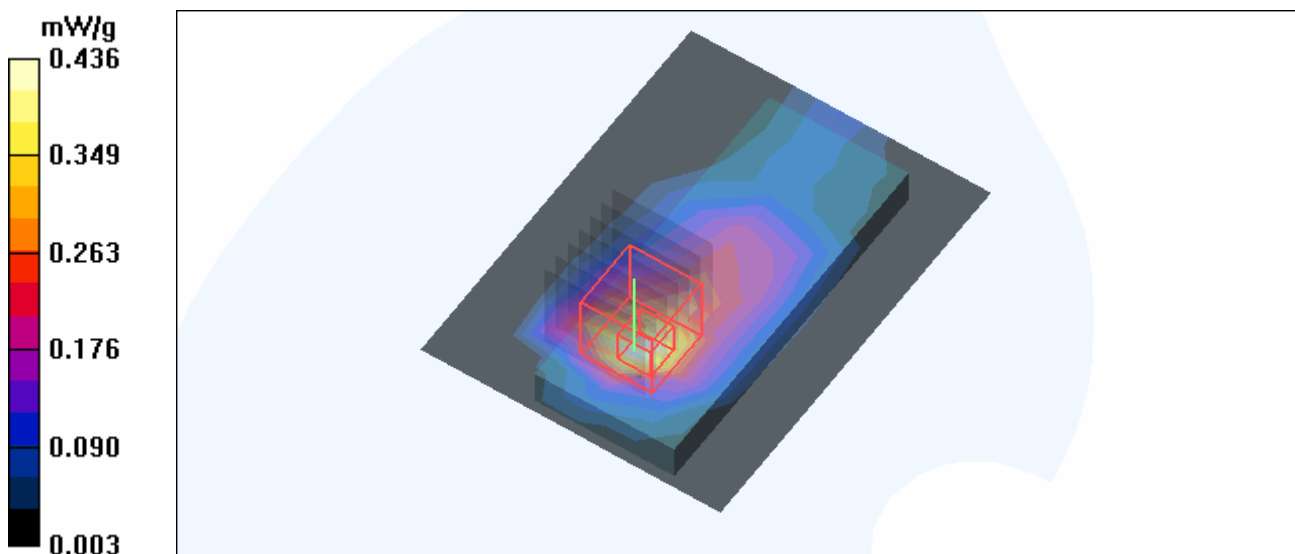
Mid Channel 4/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.0 V/m

Peak SAR (extrapolated) = 0.948 W/kg

SAR(1 g) = 0.414 mW/g; SAR(10 g) = 0.207 mW/g

Maximum value of SAR (measured) = 0.436 mW/g



Test Laboratory: Advance Data Technology

D600-11n-40M-Ch7-Mode 4

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2452 MHz

Communication System: 802.11n ; Frequency: 2452 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used : $f = 2452$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm
 Phantom section: Flat Section ; Separation distance : 3 mm (The bottom side of the EUT to the Phantom)
 Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 7/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.390 mW/g

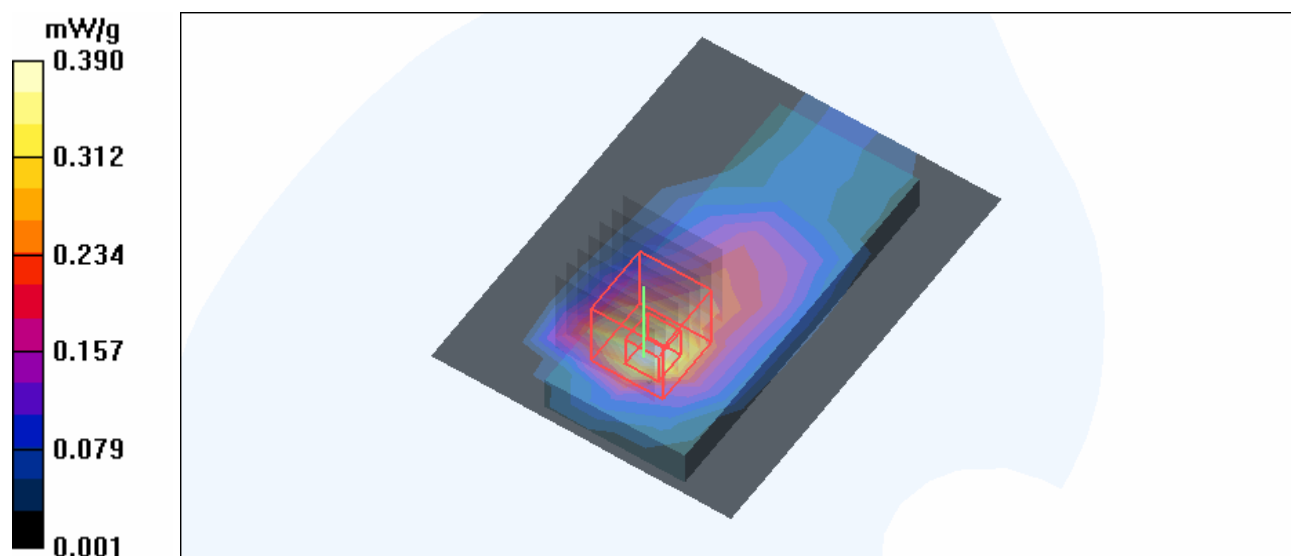
High Channel 7/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.9 V/m

Peak SAR (extrapolated) = 0.833 W/kg

SAR(1 g) = 0.355 mW/g; SAR(10 g) = 0.182 mW/g

Maximum value of SAR (measured) = 0.378 mW/g



Test Laboratory: Advance Data Technology

N6000-11b-Ch6-Mode 5

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

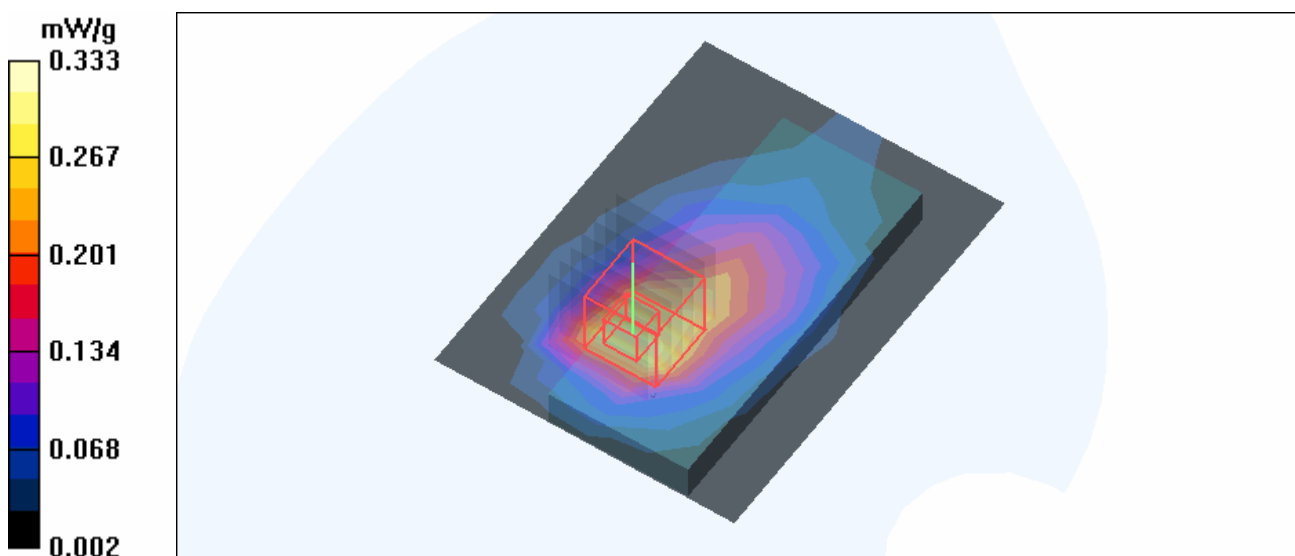
Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
 Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm
 Phantom section: Flat Section ; Separation distance : 7 mm (The bottom side of the EUT to the Phantom)
 Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.284 mW/g

Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 12.7 V/m
 Peak SAR (extrapolated) = 0.797 W/kg
SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.162 mW/g
 Maximum value of SAR (measured) = 0.333 mW/g



Test Laboratory: Advance Data Technology

N6000-11g-Ch6-Mode 6

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11g ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 7 mm (The bottom side of the EUT to the Phantom)
 Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.392 mW/g

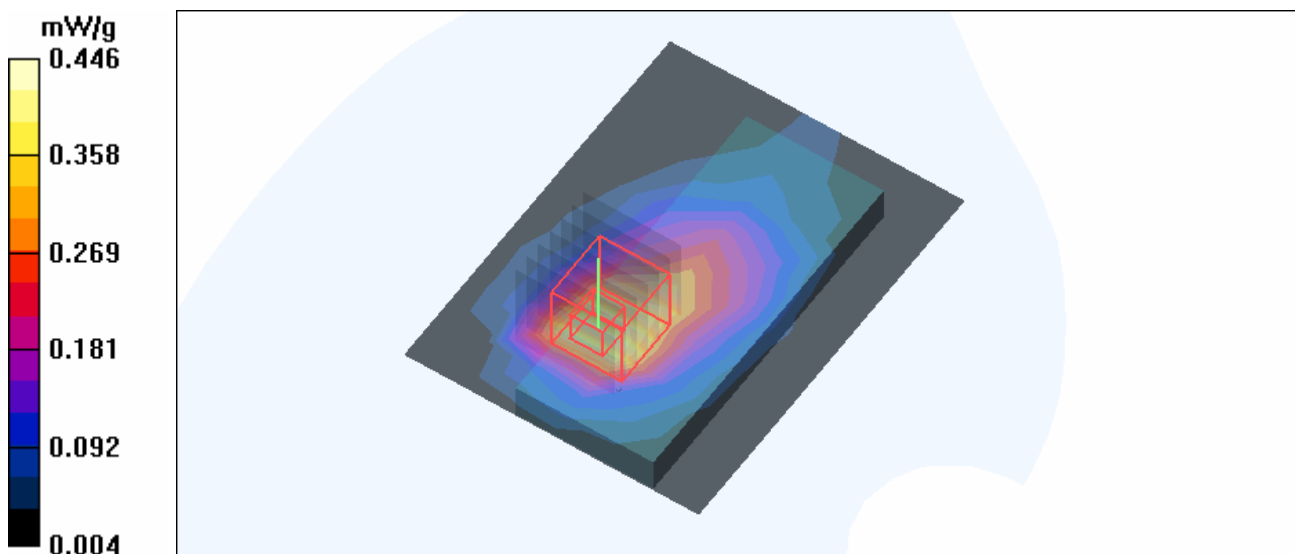
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.7 V/m

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.217 mW/g

Maximum value of SAR (measured) = 0.446 mW/g



Test Laboratory: Advance Data Technology

N6000-11n-20M-Ch6-Mode 7

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11n ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 7 mm (The bottom side of the EUT to the Phantom)
Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.514 mW/g

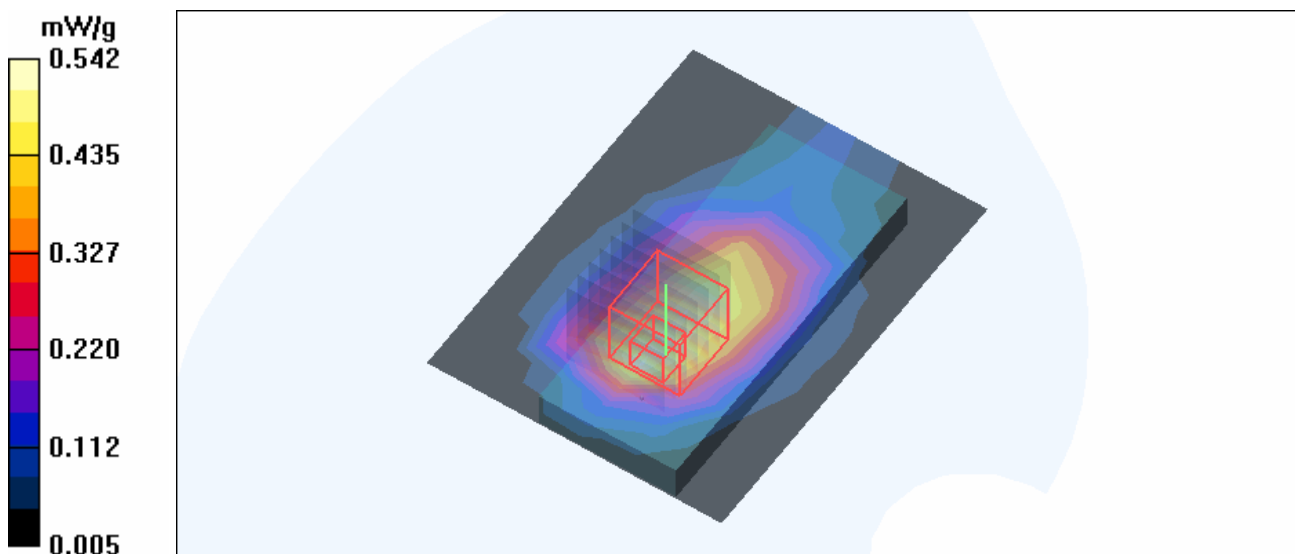
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.5 V/m

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.511 mW/g; SAR(10 g) = 0.272 mW/g

Maximum value of SAR (measured) = 0.542 mW/g



Test Laboratory: Advance Data Technology

N6000-11n-40M-Ch4-Mode 8

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11n ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 7 mm (The bottom side of the EUT to the Phantom)

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 4/Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.211 mW/g

Mid Channel 4/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.1 V/m

Peak SAR (extrapolated) = 0.433 W/kg

SAR(1 g) = 0.198 mW/g; SAR(10 g) = 0.104 mW/g

Maximum value of SAR (measured) = 0.209 mW/g

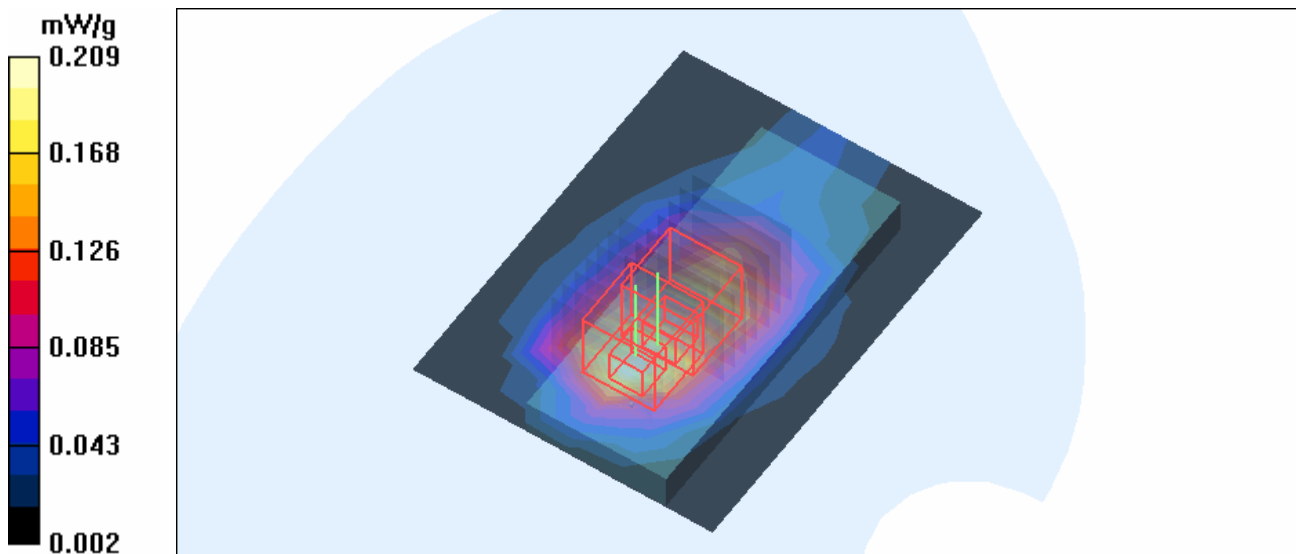
Mid Channel 4/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.1 V/m

Peak SAR (extrapolated) = 0.371 W/kg

SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.095 mW/g

Maximum value of SAR (measured) = 0.190 mW/g



Test Laboratory: Advance Data Technology

N800C-11b-Ch6-Mode 9

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
 Medium: MSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 8 mm (The bottom side of the EUT to the Phantom)

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.200 mW/g

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

Reference Value = 10.8 V/m

Peak SAR (extrapolated) = 0.511 W/kg

SAR(1 g) = 0.213 mW/g; SAR(10 g) = 0.112 mW/g

Maximum value of SAR (measured) = 0.221 mW/g

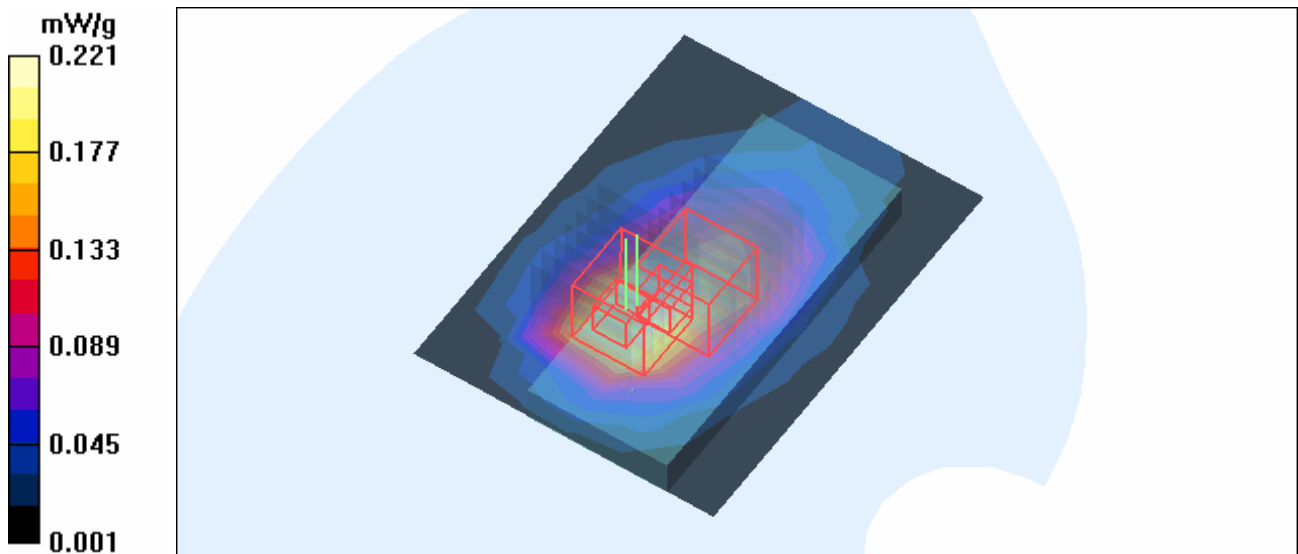
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.8 V/m

Peak SAR (extrapolated) = 0.429 W/kg

SAR(1 g) = 0.173 mW/g; SAR(10 g) = 0.090 mW/g

Maximum value of SAR (measured) = 0.208 mW/g



Test Laboratory: Advance Data Technology

N800C-11g-Ch6-Mode 10

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11g ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 8 mm (The bottom side of the EUT to the Phantom)
 Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.256 mW/g

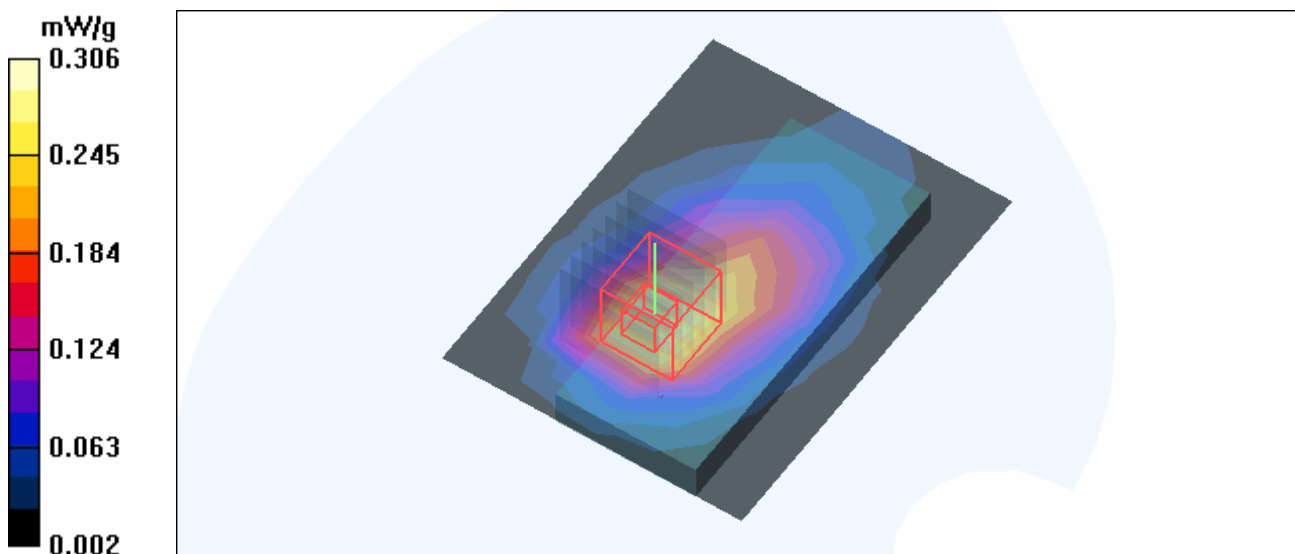
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.7 V/m

Peak SAR (extrapolated) = 0.712 W/kg

SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.154 mW/g

Maximum value of SAR (measured) = 0.306 mW/g



Test Laboratory: Advance Data Technology

N800C-11n-20M-Ch6-Mode 11

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11n ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 8 mm (The bottom side of the EUT to the Phantom)

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.384 mW/g

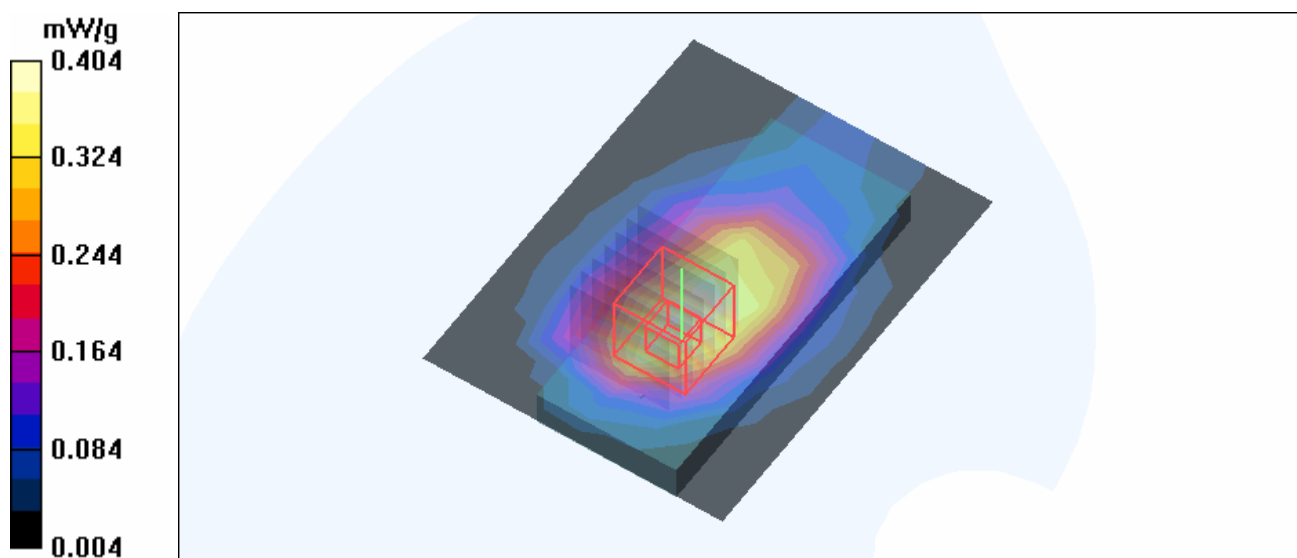
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.9 V/m

Peak SAR (extrapolated) = 0.810 W/kg

SAR(1 g) = 0.383 mW/g; SAR(10 g) = 0.207 mW/g

Maximum value of SAR (measured) = 0.404 mW/g



Test Laboratory: Advance Data Technology

N800C-11n-40M-Ch4-Mode 12

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11n ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

Phantom section: Flat Section ; Separation distance : 8 mm (The bottom side of the EUT to the Phantom)

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 4/Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.143 mW/g

Mid Channel 4/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.85 V/m

Peak SAR (extrapolated) = 0.312 W/kg

SAR(1 g) = 0.143 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.150 mW/g

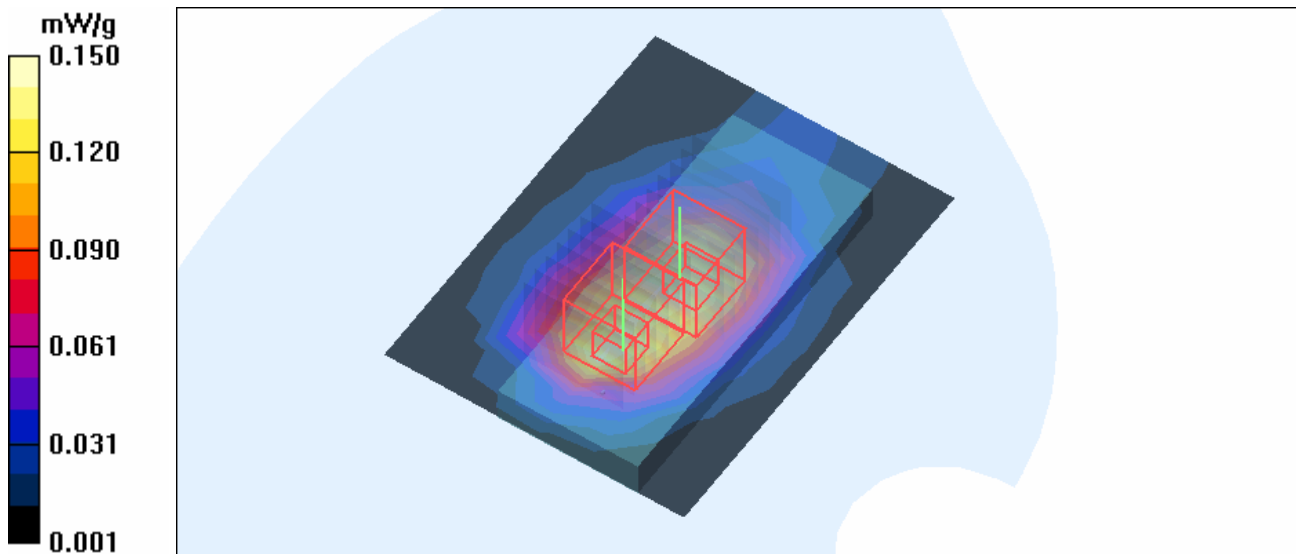
Mid Channel 4/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.85 V/m

Peak SAR (extrapolated) = 0.271 W/kg

SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.075 mW/g

Maximum value of SAR (measured) = 0.137 mW/g



Test Laboratory: Advance Data Technology

C600-11b-Ch1-Mode 13

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; 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; $\sigma = 1.91$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.070 mW/g

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

Reference Value = 5.45 V/m

Peak SAR (extrapolated) = 0.149 W/kg

SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.067 mW/g

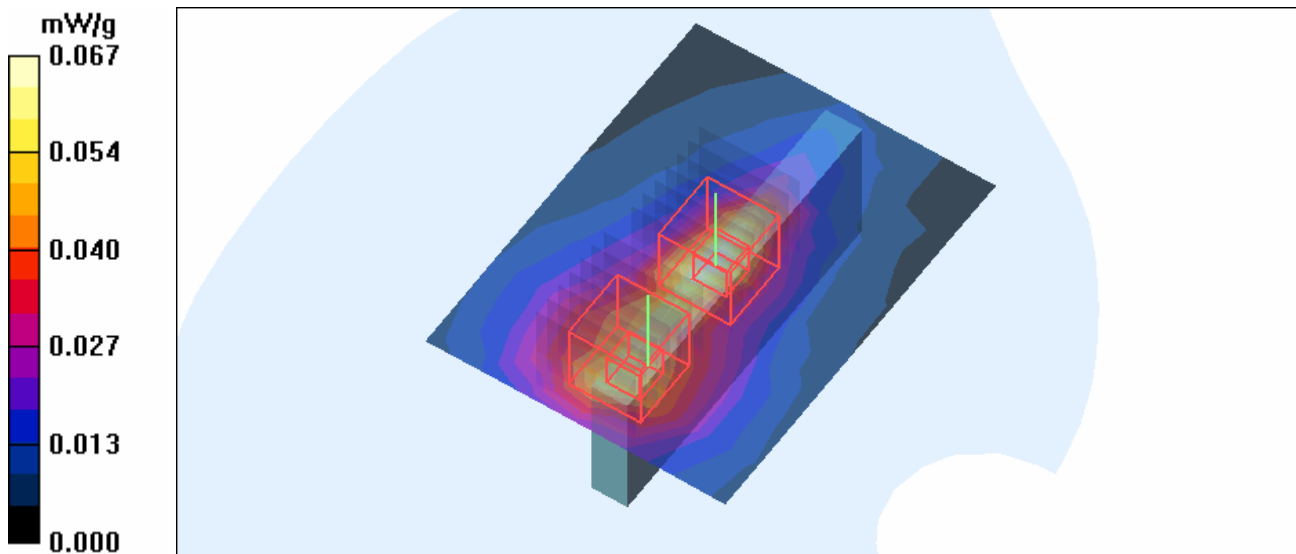
Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.45 V/m

Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.029 mW/g

Maximum value of SAR (measured) = 0.061 mW/g



Test Laboratory: Advance Data Technology

C600-11b-Ch6-Mode 13

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; 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; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.115 mW/g

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

Reference Value = 6.64 V/m

Peak SAR (extrapolated) = 0.261 W/kg

SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.054 mW/g

Maximum value of SAR (measured) = 0.121 mW/g

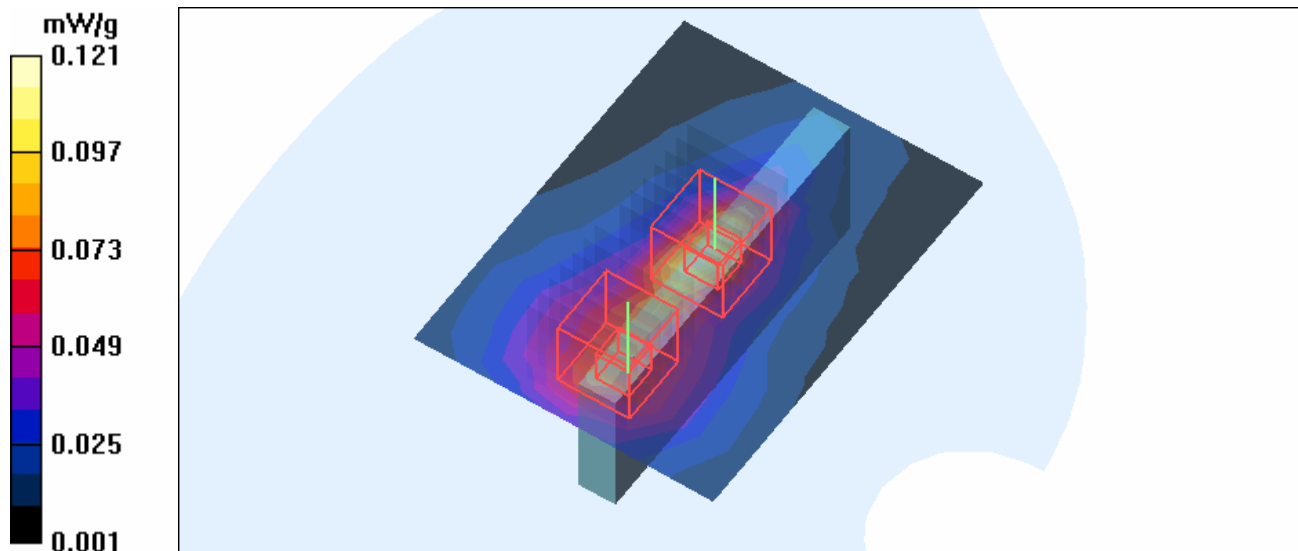
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.64 V/m

Peak SAR (extrapolated) = 0.224 W/kg

SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.046 mW/g

Maximum value of SAR (measured) = 0.097 mW/g



Test Laboratory: Advance Data Technology

C600-11b-Ch11-Mode 13

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; 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; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15

- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.111 mW/g

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

Reference Value = 6.57 V/m

Peak SAR (extrapolated) = 0.239 W/kg

SAR(1 g) = 0.104 mW/g; SAR(10 g) = 0.051 mW/g

Maximum value of SAR (measured) = 0.113 mW/g

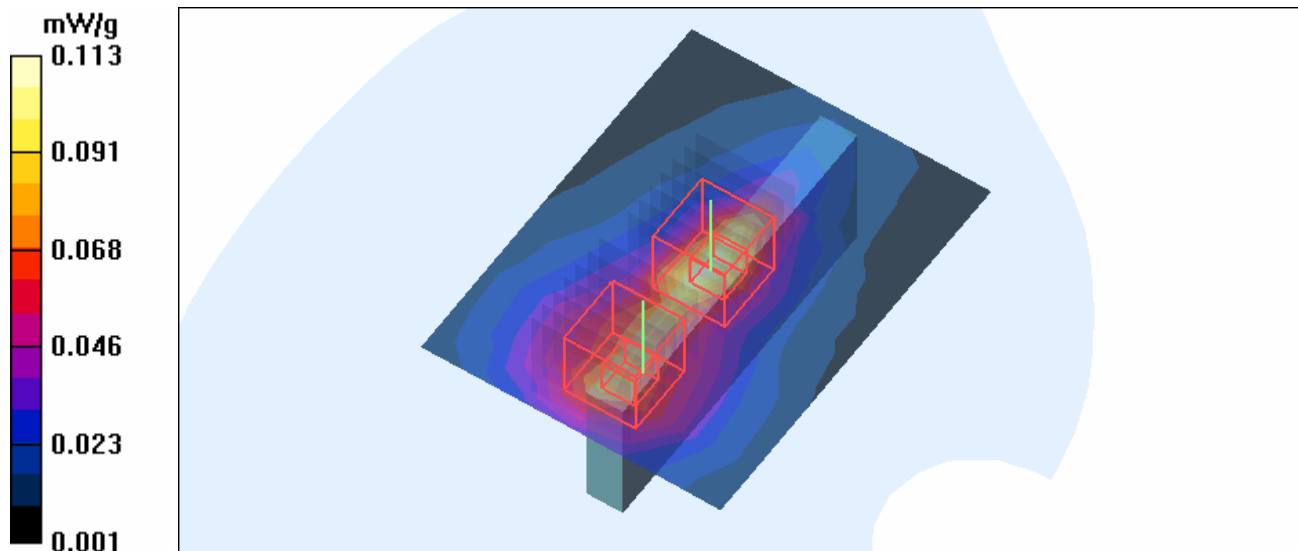
High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.57 V/m

Peak SAR (extrapolated) = 0.229 W/kg

SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.045 mW/g

Maximum value of SAR (measured) = 0.096 mW/g



Test Laboratory: Advance Data Technology

C600-11g-Ch1-Mode 14

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; 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; $\sigma = 1.91$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.105 mW/g

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

Reference Value = 6.28 V/m

Peak SAR (extrapolated) = 0.262 W/kg

SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.050 mW/g

Maximum value of SAR (measured) = 0.114 mW/g

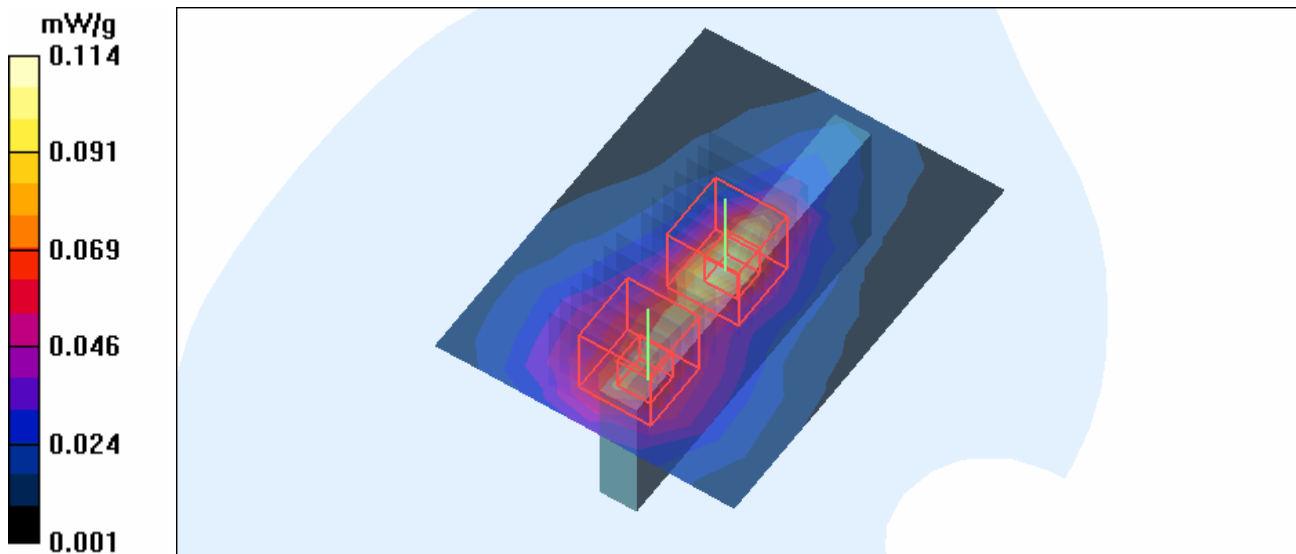
Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.28 V/m

Peak SAR (extrapolated) = 0.214 W/kg

SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.042 mW/g

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



Test Laboratory: Advance Data Technology

C600-11g-Ch6-Mode 14

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11g ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.94 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.146 mW/g

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

Reference Value = 7.64 V/m

Peak SAR (extrapolated) = 0.336 W/kg

SAR(1 g) = 0.141 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.152 mW/g

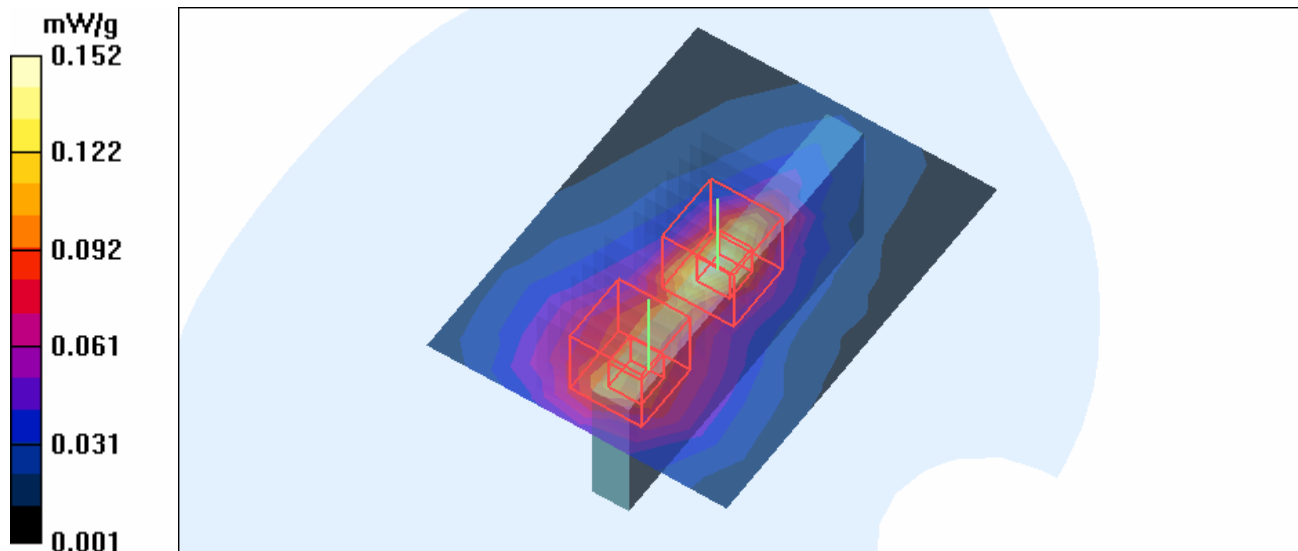
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.64 V/m

Peak SAR (extrapolated) = 0.298 W/kg

SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.060 mW/g

Maximum value of SAR (measured) = 0.129 mW/g



Test Laboratory: Advance Data Technology

C600-11g-Ch11-Mode 14

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2462 MHz

Communication System: 802.11g ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.085 mW/g

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

Reference Value = 4.82 V/m

Peak SAR (extrapolated) = 0.211 W/kg

SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.040 mW/g

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

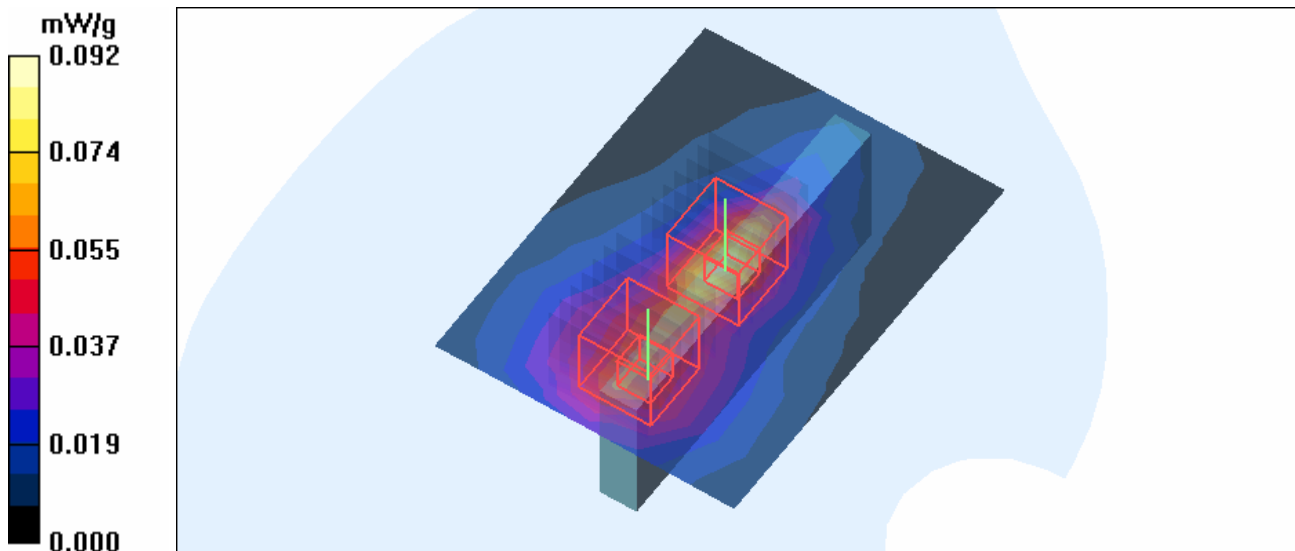
High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.82 V/m

Peak SAR (extrapolated) = 0.173 W/kg

SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.034 mW/g

Maximum value of SAR (measured) = 0.073 mW/g



Test Laboratory: Advance Data Technology

C600-11n-20M-Ch1-Mode 15

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2412 MHz

Communication System: 802.11n ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: MSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.91$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.465 mW/g

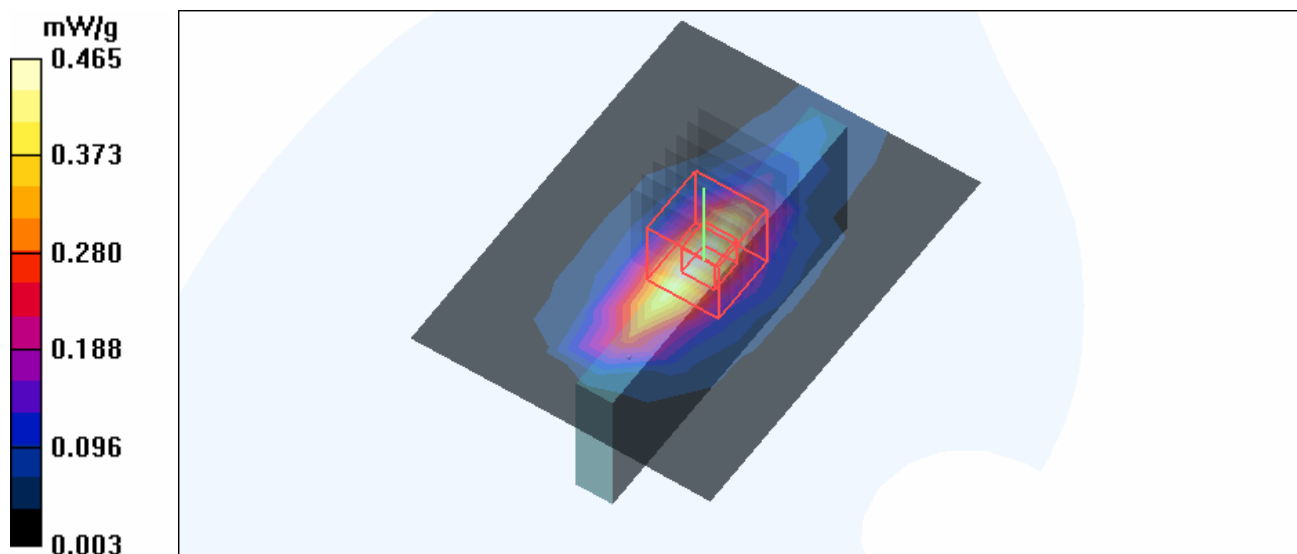
Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.4 V/m

Peak SAR (extrapolated) = 0.946 W/kg

SAR(1 g) = 0.410 mW/g; SAR(10 g) = 0.195 mW/g

Maximum value of SAR (measured) = 0.450 mW/g



Test Laboratory: Advance Data Technology

C600-11n-20M-Ch6-Mode 15

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11n ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.812 mW/g

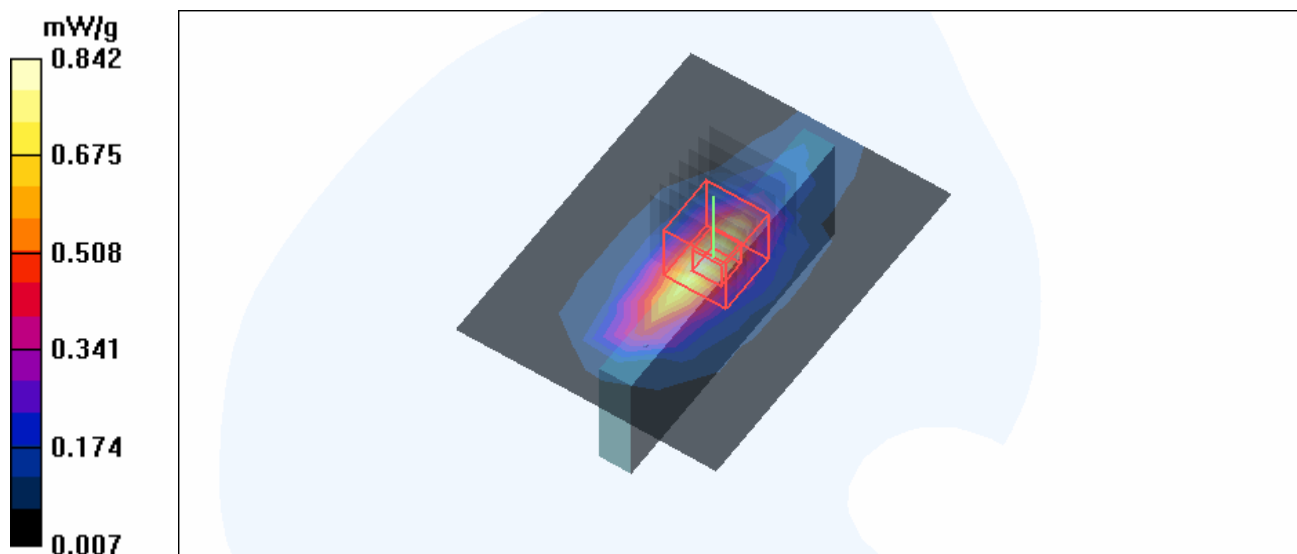
Mid Channel 6/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.1 V/m

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.768 mW/g; SAR(10 g) = 0.359 mW/g

Maximum value of SAR (measured) = 0.842 mW/g



Test Laboratory: Advance Data Technology

C600-11n-20M-Ch11-Mode 15

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2462 MHz

Communication System: 802.11n ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

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

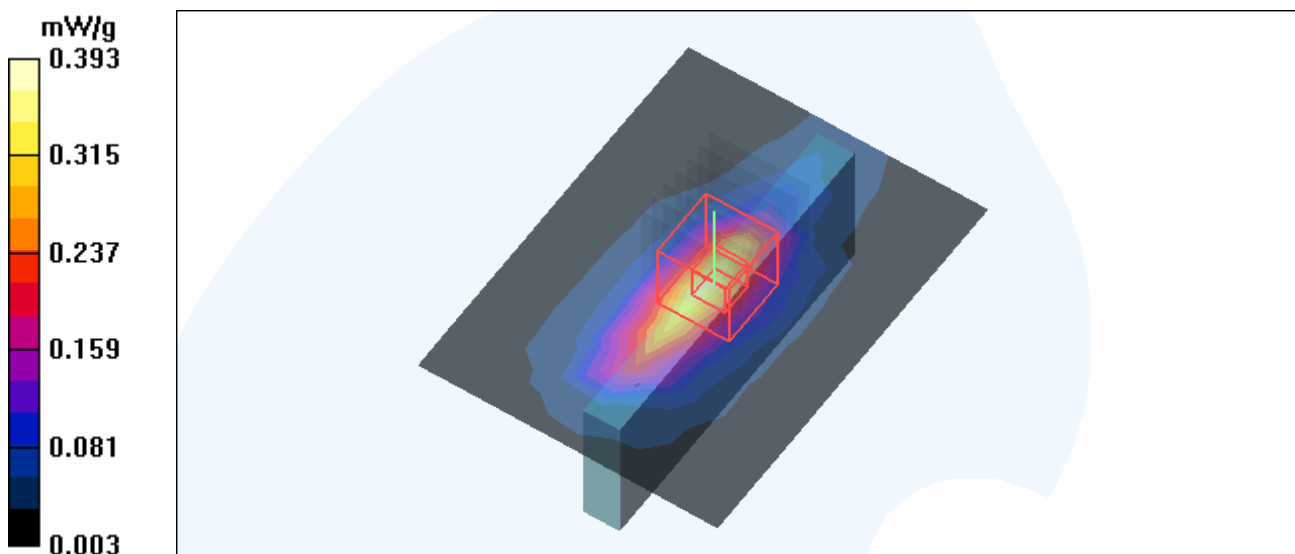
High Channel 11/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.7 V/m

Peak SAR (extrapolated) = 0.852 W/kg

SAR(1 g) = 0.361 mW/g; SAR(10 g) = 0.169 mW/g

Maximum value of SAR (measured) = 0.393 mW/g



Test Laboratory: Advance Data Technology

C600-11n-40M-Ch1-Mode 16

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2422 MHz

Communication System: 802.11n ; Frequency: 2422 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used : $f = 2422$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.240 mW/g

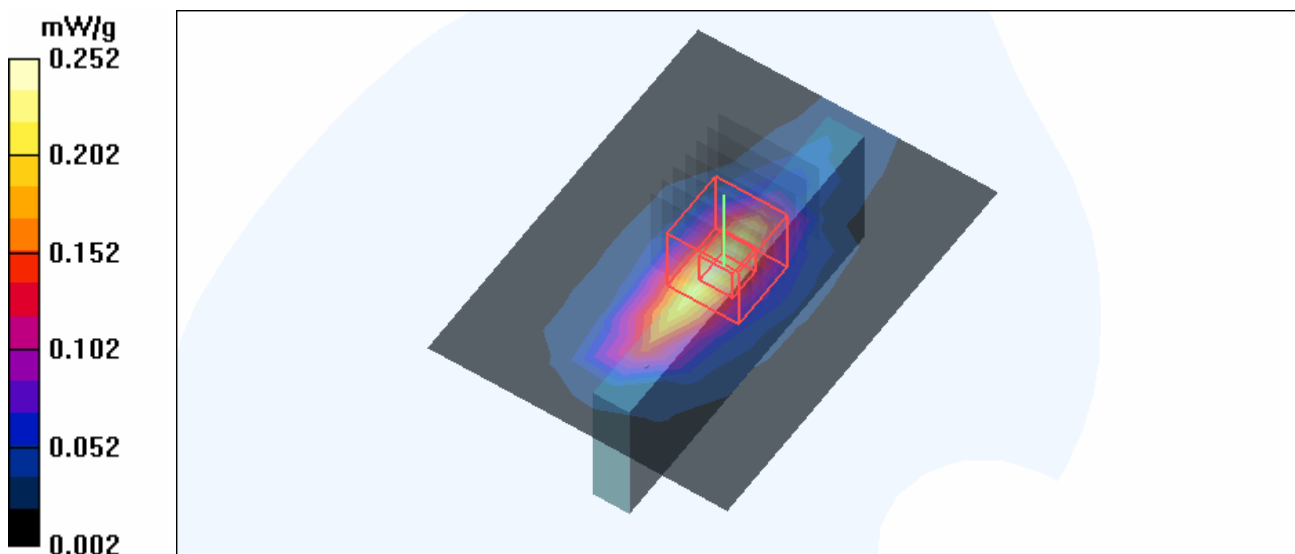
Low Channel 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.00 V/m

Peak SAR (extrapolated) = 0.537 W/kg

SAR(1 g) = 0.231 mW/g; SAR(10 g) = 0.110 mW/g

Maximum value of SAR (measured) = 0.252 mW/g



Test Laboratory: Advance Data Technology

C600-11n-40M-Ch6-Mode 16

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2437 MHz

Communication System: 802.11n ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 4/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.282 mW/g

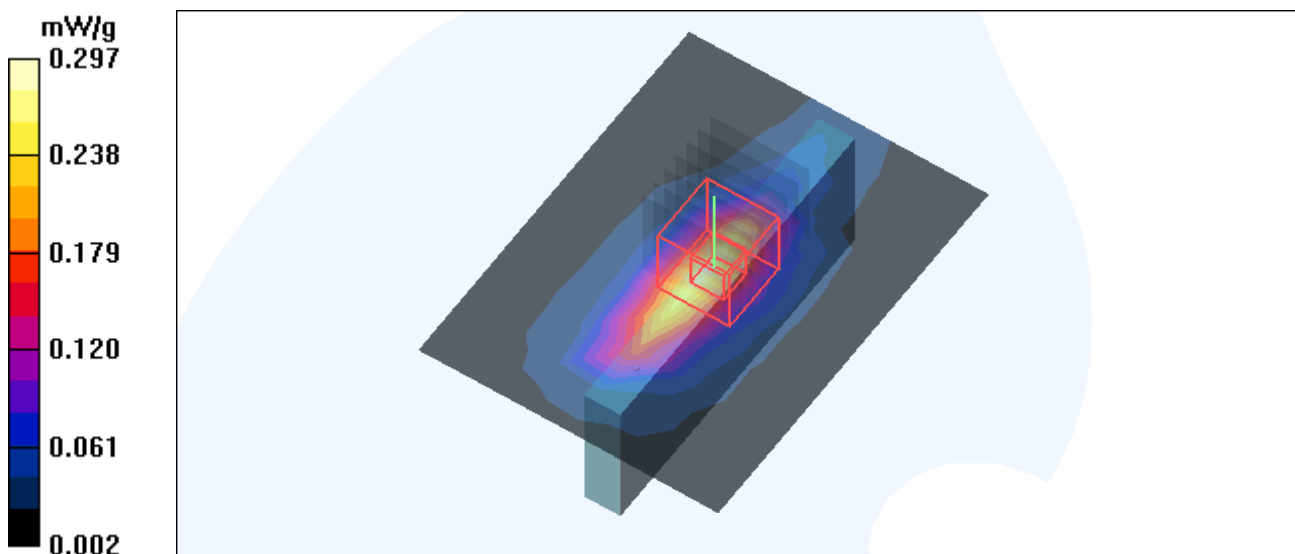
Mid Channel 4/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.87 V/m

Peak SAR (extrapolated) = 0.632 W/kg

SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.128 mW/g

Maximum value of SAR (measured) = 0.297 mW/g



Test Laboratory: Advance Data Technology

C600-11n-40M-Ch7-Mode 16

DUT: N1 Wireless USB Adapter ; Type: F5D8051 v3000 ; Test Frequency: 2452 MHz

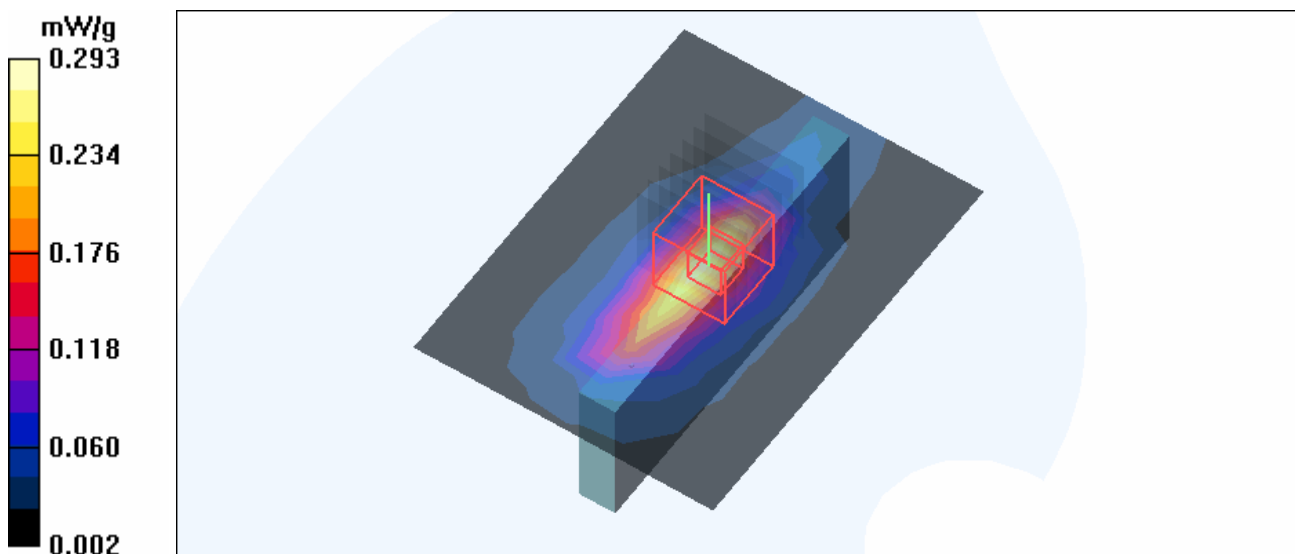
Communication System: 802.11n ; Frequency: 2452 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: MSL2450 Medium parameters used : $f = 2452 \text{ MHz}$; $\sigma = 1.96 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm
 Phantom section: Flat Section ; Separation distance : 0 mm (The edge side of the EUT to the Phantom)
 Antenna type : Printed Antenna ; Air temp. : 23.2 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: 2006/3/15
- 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 7/Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.274 mW/g

High Channel 7/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 9.26 V/m
 Peak SAR (extrapolated) = 0.624 W/kg
SAR(1 g) = 0.268 mW/g; SAR(10 g) = 0.126 mW/g
 Maximum value of SAR (measured) = 0.293 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; $\sigma = 1.96$ mho/m; $\epsilon_r = 52.6$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm
 Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23.2 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: 2006/3/15
- 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) = 15.8 mW/g

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

Reference Value = 93.8 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 33.1 W/kg

SAR(1 g) = 14 mW/g; SAR(10 g) = 6.28 mW/g

Maximum value of SAR (measured) = 15.5 mW/g

