

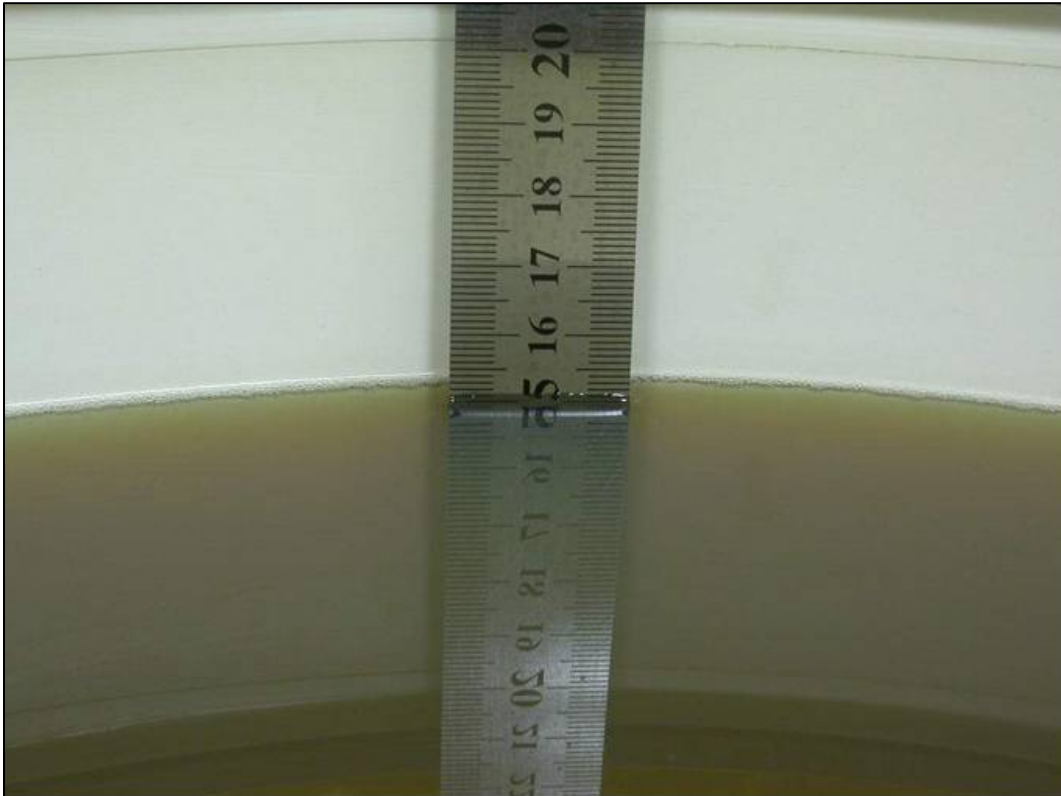
APPENDIX A: TEST DATA

Liquid Level Photo

HSL 2450MHz D=150mm



HSL 5800MHz D=151mm



Date/Time: 2008/3/7 10:16:53

Test Laboratory: Advance Data Technology

Ant A-11b-Ch1-M01

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
Medium: HSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.79$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.5 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.74, 4.74, 4.74) ; Calibrated: 2007/11/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 (5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.420 mW/g

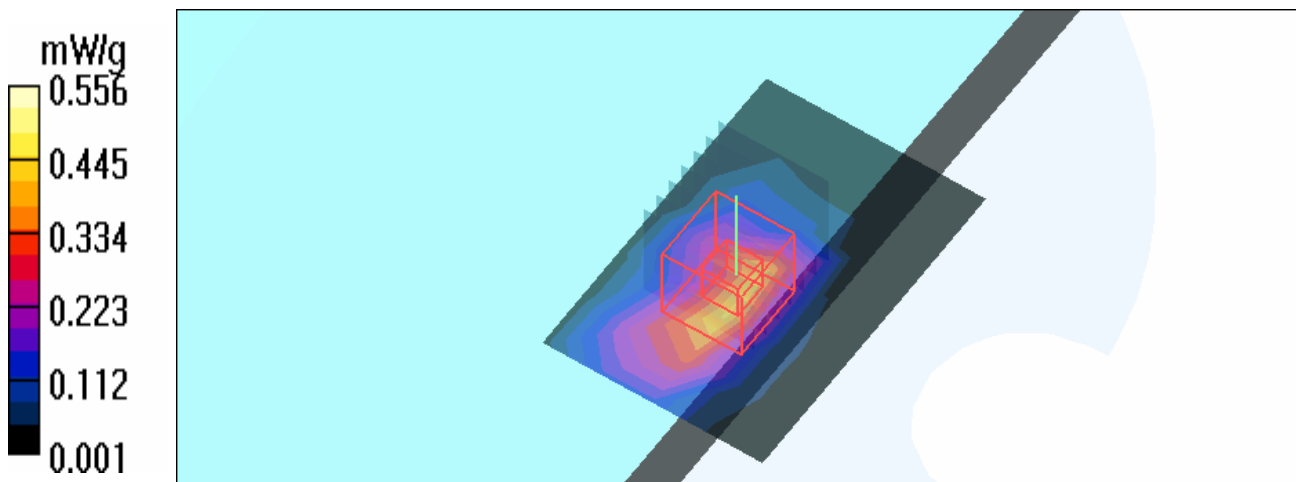
Low Channel 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.1 V/m

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.206 mW/g

Maximum value of SAR (measured) = 0.556 mW/g



Date/Time: 2008/3/7 10:31:59

Test Laboratory: Advance Data Technology

Ant A-11b-Ch6-M01

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
Medium: HSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.81$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.5 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.74, 4.74, 4.74) ; Calibrated: 2007/11/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 (5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.424 mW/g

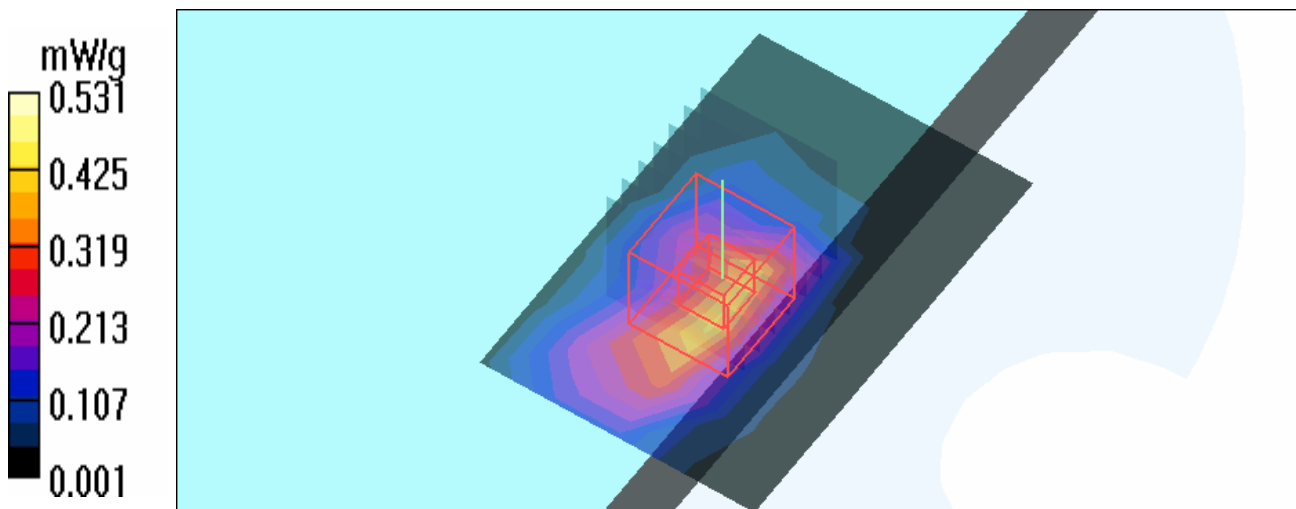
Mid Channel 6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.8 V/m

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.469 mW/g; SAR(10 g) = 0.198 mW/g

Maximum value of SAR (measured) = 0.531 mW/g



Date/Time: 2008/3/7 10:46:43

Test Laboratory: Advance Data Technology

Ant A-11b-Ch11-M01

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
Medium: HSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.5 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.74, 4.74, 4.74) ; Calibrated: 2007/11/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 (5x7x1): Measurement grid: dx=15mm, dy=15mm

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

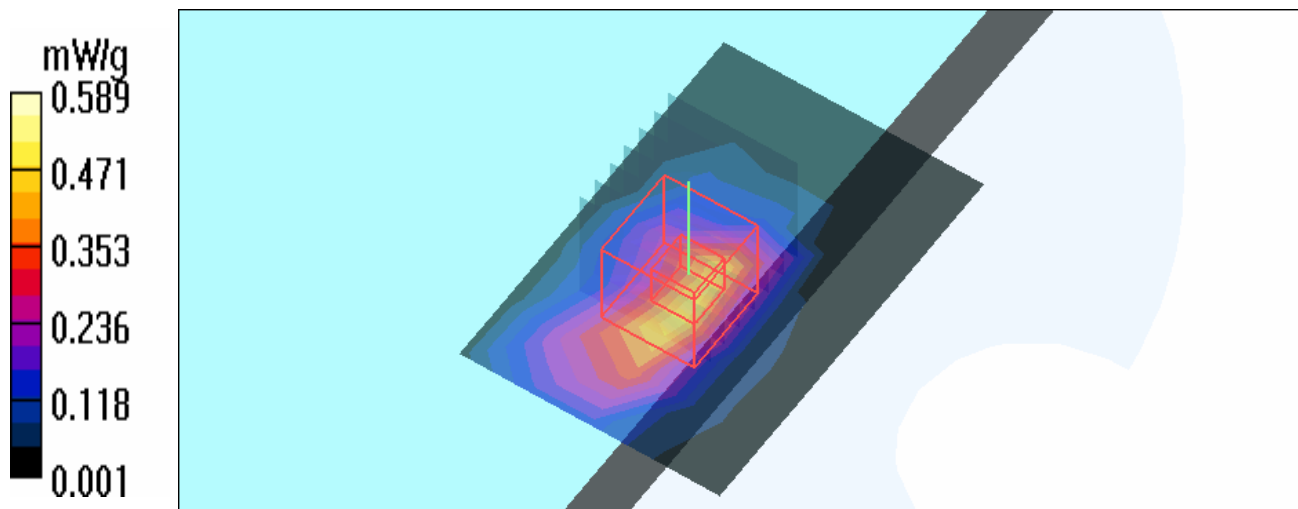
High Channel 11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

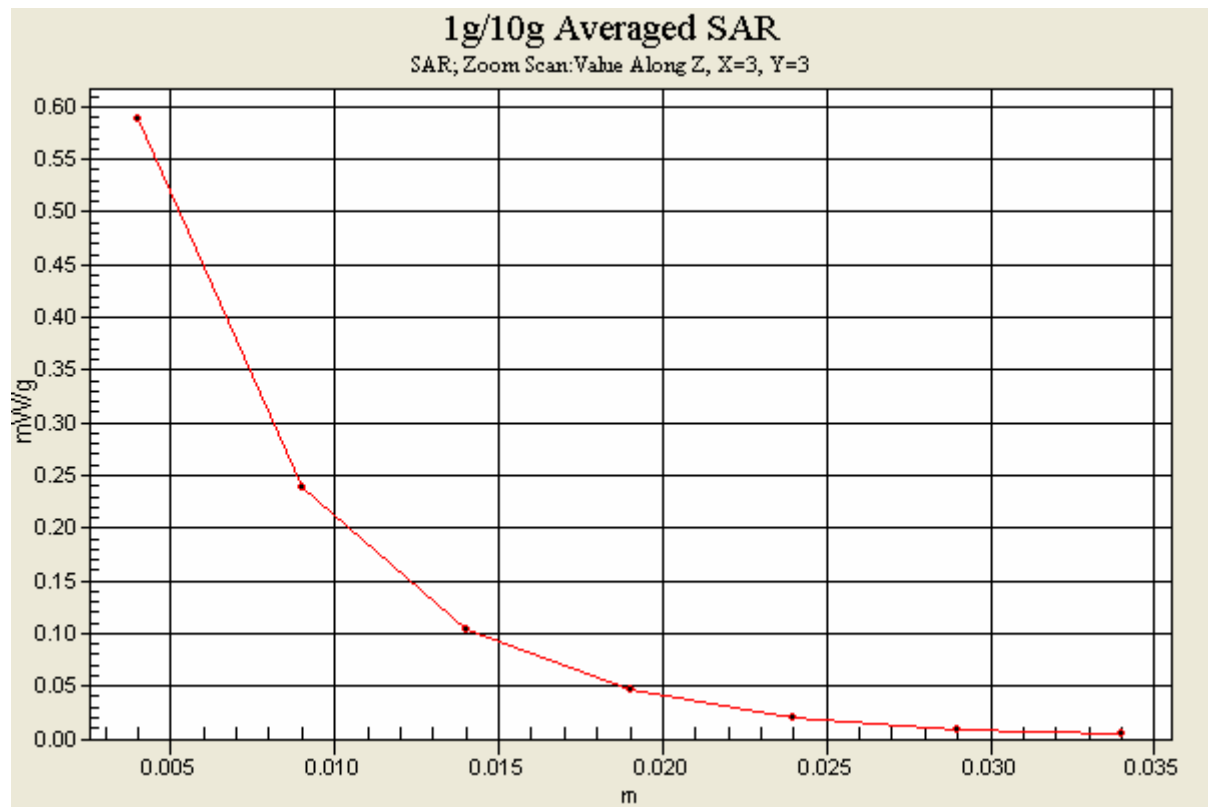
Reference Value = 12.3 V/m

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.518 mW/g; SAR(10 g) = 0.221 mW/g

Maximum value of SAR (measured) = 0.589 mW/g





Date/Time: 2008/3/7 11:03:49

Test Laboratory: Advance Data Technology

Ant A-11g-Ch1-M02

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 2412 MHz

Communication System: 802.11g ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: HSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.79$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.5 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.74, 4.74, 4.74) ; Calibrated: 2007/11/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 (5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.273 mW/g

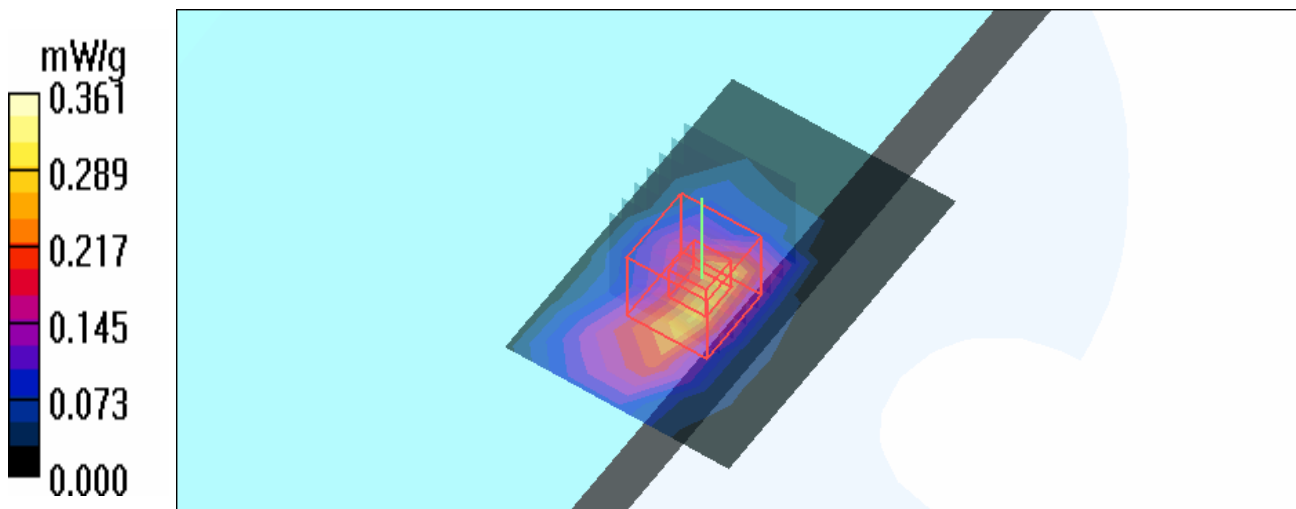
Low Channel 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.5 V/m

Peak SAR (extrapolated) = 0.827 W/kg

SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.134 mW/g

Maximum value of SAR (measured) = 0.361 mW/g



Date/Time: 2008/3/7 11:18:40

Test Laboratory: Advance Data Technology

Ant A-11g-Ch6-M02

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 2437 MHz

Communication System: 802.11g ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: HSL2450 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.81 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.5 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.74, 4.74, 4.74) ; Calibrated: 2007/11/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 (5x7x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.339 mW/g

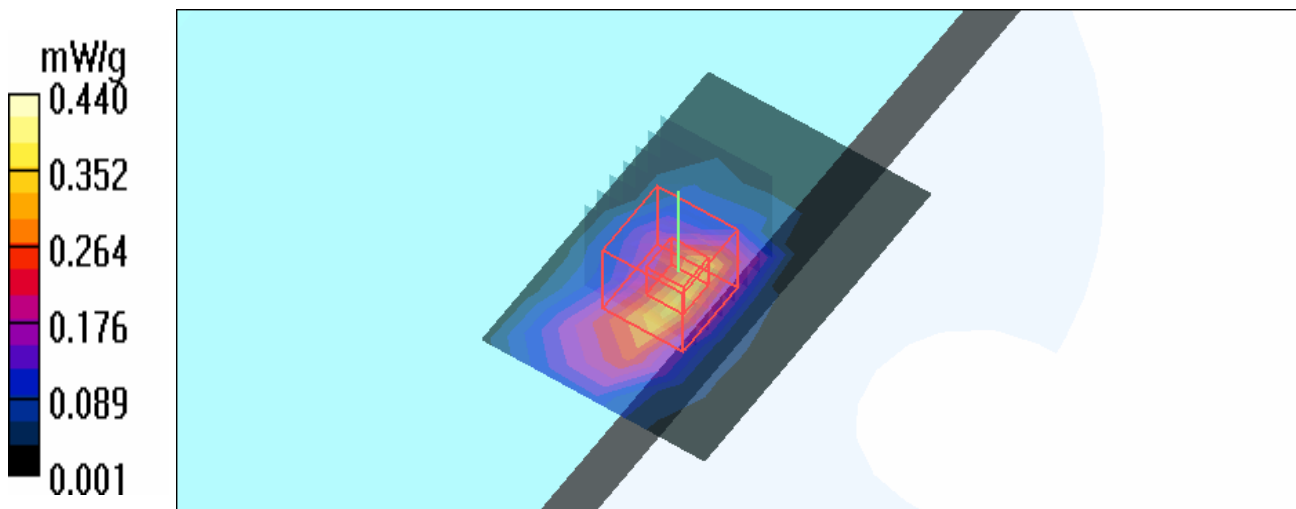
Mid Channel 6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.6 V/m

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.382 mW/g; SAR(10 g) = 0.161 mW/g

Maximum value of SAR (measured) = 0.440 mW/g



Date/Time: 2008/3/7 11:33:46

Test Laboratory: Advance Data Technology

Ant A-11g-Ch11-M02

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 2462 MHz

Communication System: 802.11g ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: HSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.5 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.74, 4.74, 4.74) ; Calibrated: 2007/11/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 (5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.356 mW/g

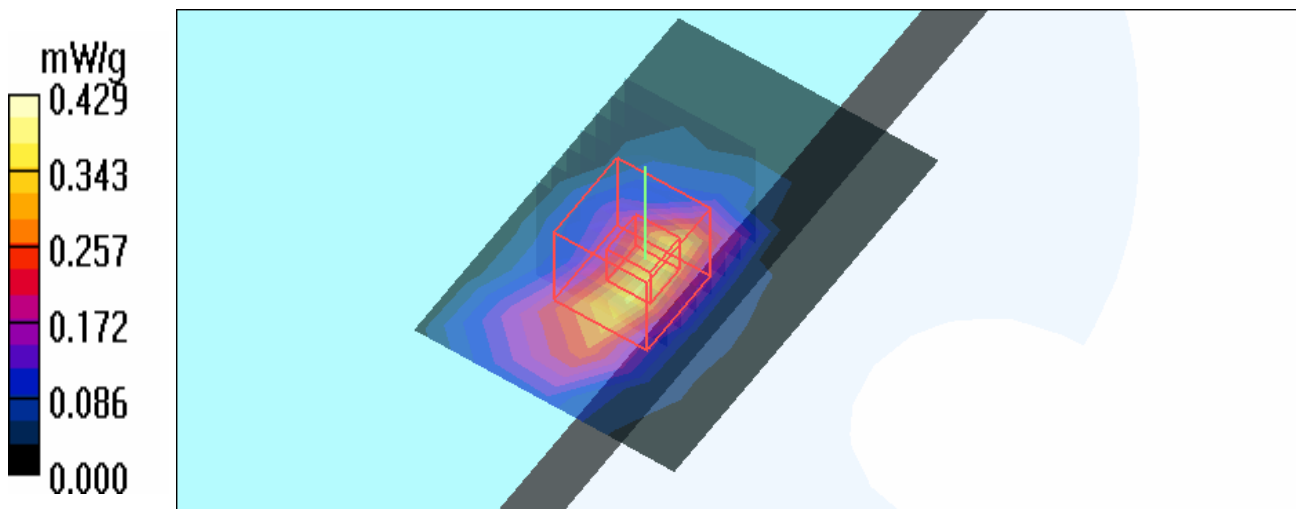
High Channel 11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.9 V/m

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.375 mW/g; SAR(10 g) = 0.158 mW/g

Maximum value of SAR (measured) = 0.429 mW/g



Date/Time: 2008/3/7 11:51:34

Test Laboratory: Advance Data Technology

Ant B-11b-Ch11-M03

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
Medium: HSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.5 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.74, 4.74, 4.74) ; Calibrated: 2007/11/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 (5x7x1): Measurement grid: dx=15mm, dy=15mm

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

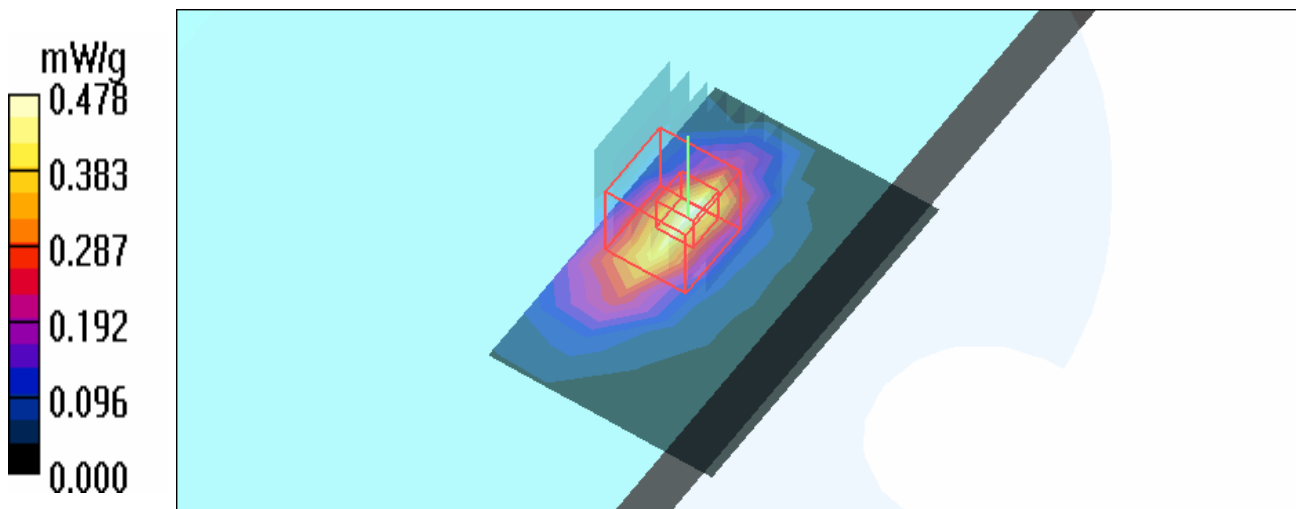
High Channel 11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.03 V/m

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.426 mW/g; SAR(10 g) = 0.185 mW/g

Maximum value of SAR (measured) = 0.478 mW/g



Date/Time: 2008/3/7 14:43:20

Test Laboratory: Advance Data Technology

Ant A-11a-Ch36-M04

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 5180 MHz

Communication System: 802.11a ; Frequency: 5180 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: HSL5800 Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 4.67 \text{ mho/m}$; $\epsilon_r = 36.4$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 151 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.4 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(5.13, 5.13, 5.13) ; Calibrated: 2007/8/30
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 36/Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.634 mW/g

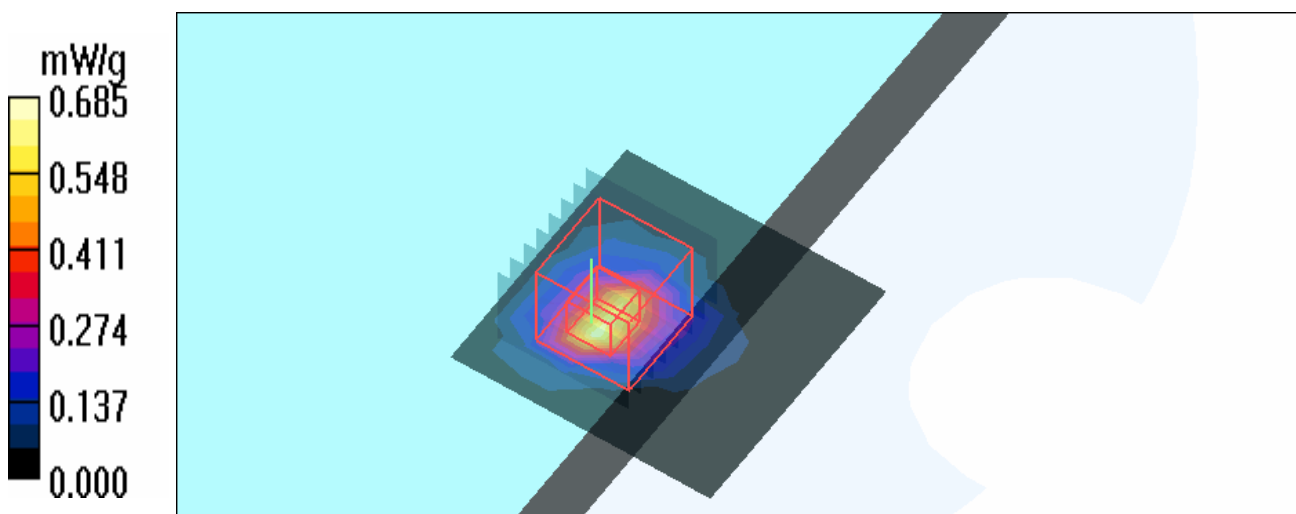
Low Channel 36/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$

Reference Value = 5.09 V/m

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.411 mW/g; SAR(10 g) = 0.135 mW/g

Maximum value of SAR (measured) = 0.685 mW/g



Date/Time: 2008/3/7 15:04:22

Test Laboratory: Advance Data Technology

Ant A-11a-Ch40-M04

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 5200 MHz

Communication System: 802.11a ; Frequency: 5200 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: HSL5800 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.7$ mho/m; $\epsilon_r = 36.3$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.4 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(5.13, 5.13, 5.13) ; Calibrated: 2007/8/30
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 40/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.713 mW/g

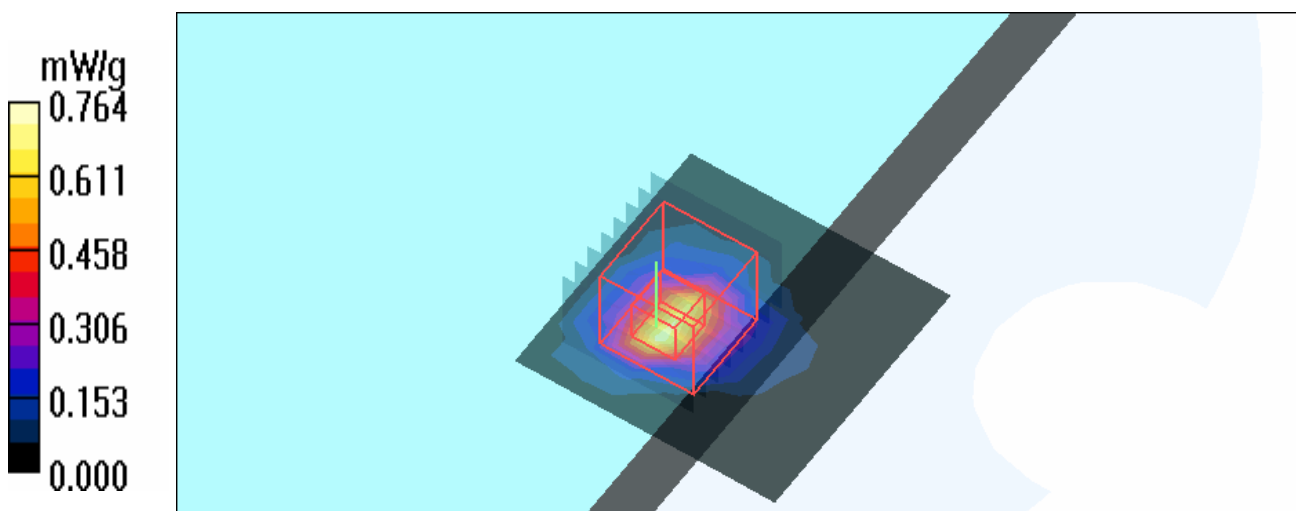
Mid. Channel 40/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 5.32 V/m

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.461 mW/g; SAR(10 g) = 0.149 mW/g

Maximum value of SAR (measured) = 0.764 mW/g



Date/Time: 2008/3/7 15:31:34

Test Laboratory: Advance Data Technology

Ant A-11a-Ch44-M04

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 5220 MHz

Communication System: 802.11a ; Frequency: 5220 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: HSL5800 Medium parameters used : $f = 5220 \text{ MHz}$; $\sigma = 4.72 \text{ mho/m}$; $\epsilon_r = 36.3$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 151 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.4 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(5.13, 5.13, 5.13) ; Calibrated: 2007/8/30
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 44/Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.751 mW/g

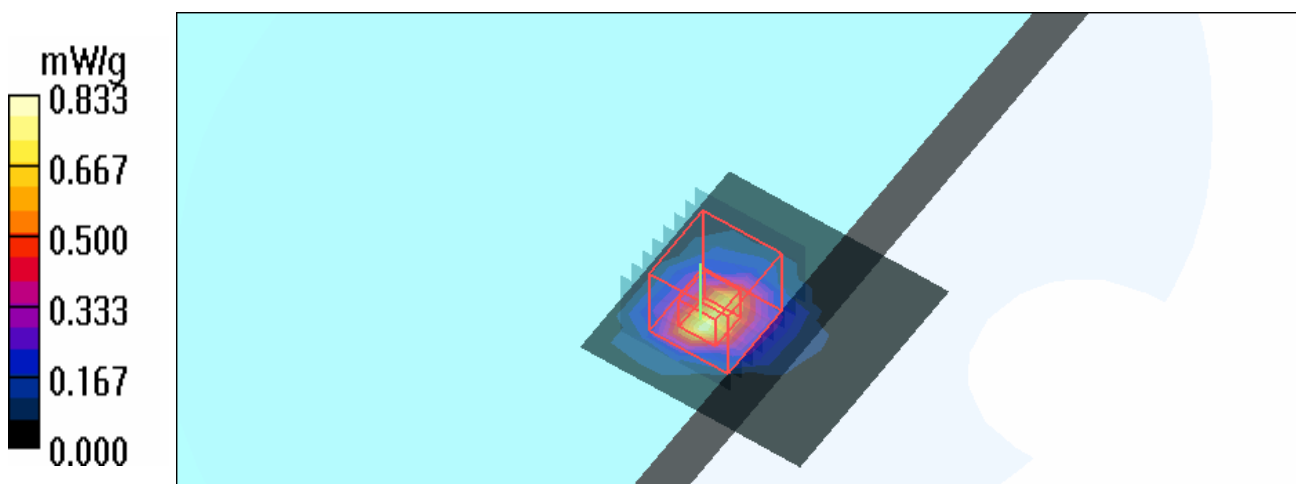
Mid. Channel 44/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$

Reference Value = 6.76 V/m

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.186 mW/g

Maximum value of SAR (measured) = 0.833 mW/g



Date/Time: 2008/3/7 15:52:19

Test Laboratory: Advance Data Technology

Ant A-11a-Ch48-M04

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 5240 MHz

Communication System: 802.11a ; Frequency: 5240 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: HSL5800 Medium parameters used: $f = 5240$ MHz; $\sigma = 4.75$ mho/m; $\epsilon_r = 36.3$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.4 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(5.13, 5.13, 5.13) ; Calibrated: 2007/8/30
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 48/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

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

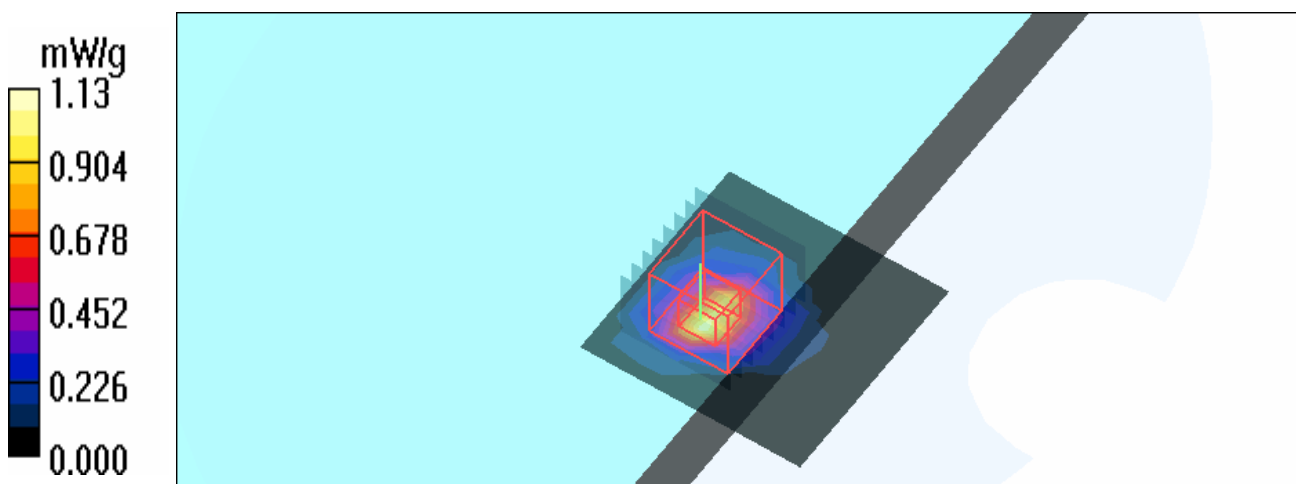
Mid. Channel 48/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

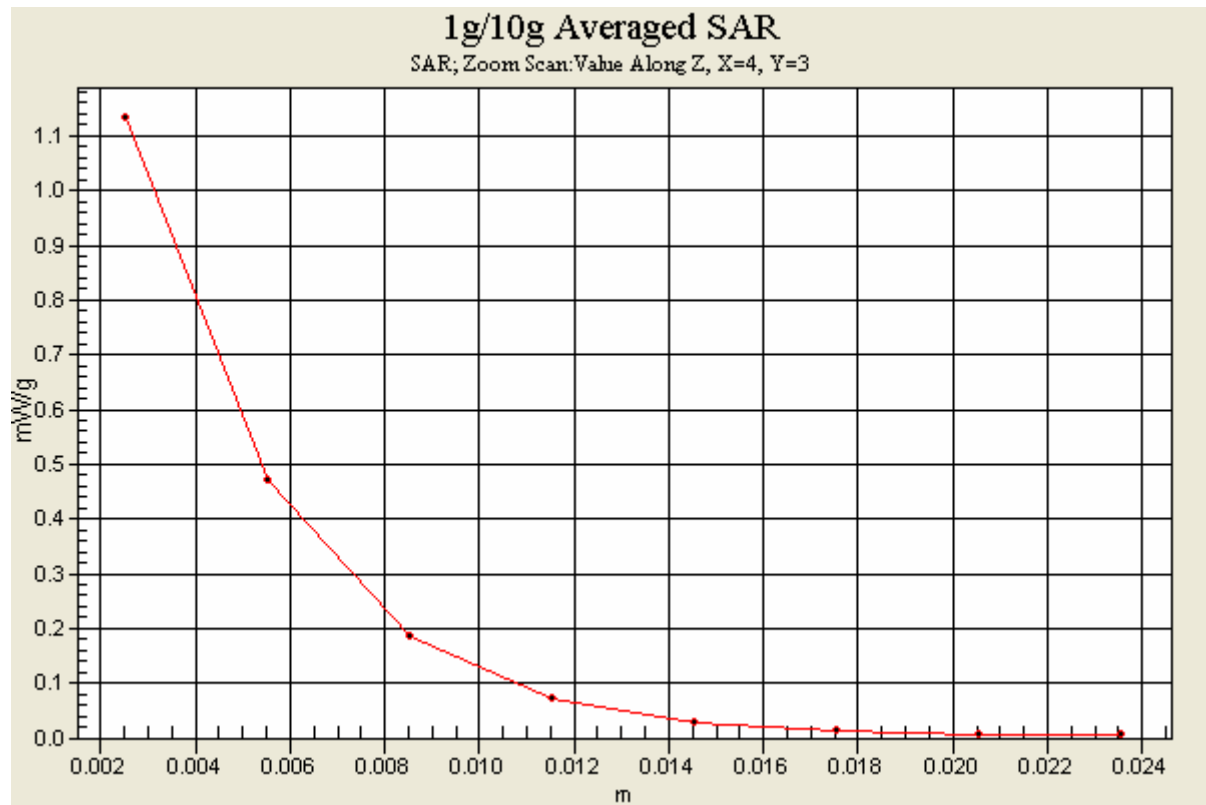
Reference Value = 8.32 V/m

Peak SAR (extrapolated) = 2.53 W/kg

SAR(1 g) = 0.679 mW/g; SAR(10 g) = 0.218 mW/g

Maximum value of SAR (measured) = 1.13 mW/g





Date/Time: 2008/3/7 16:15:14

Test Laboratory: Advance Data Technology

Ant A-11a-Ch149-M04

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 5745 MHz

Communication System: 802.11a ; Frequency: 5745 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: HSL5800 Medium parameters used: $f = 5745$ MHz; $\sigma = 5.36$ mho/m; $\epsilon_r = 35.4$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.4 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.59, 4.59, 4.59) ; Calibrated: 2007/8/30
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 149/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.397 mW/g

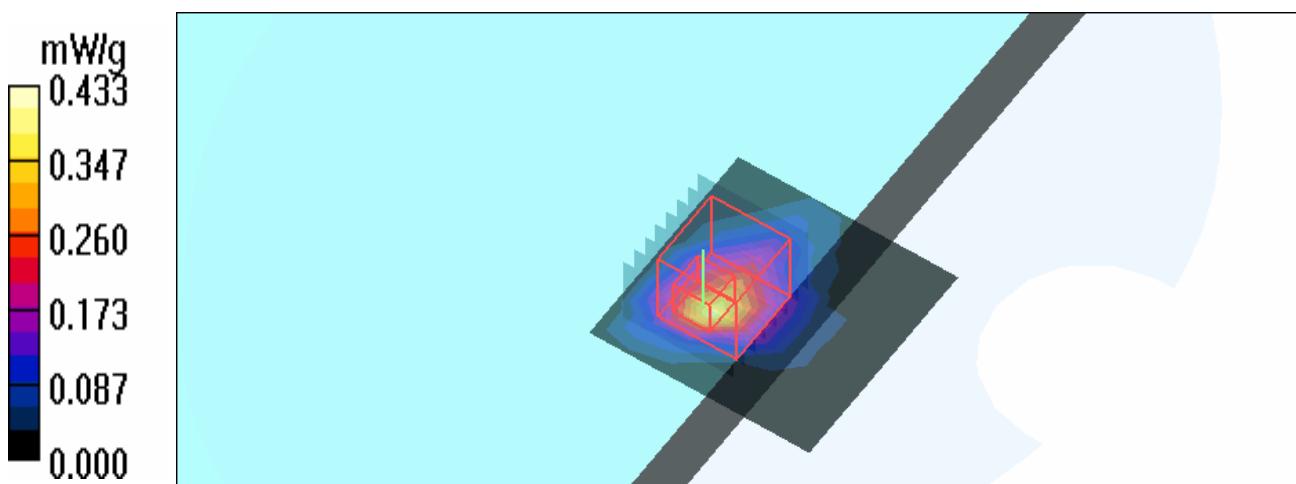
Mid. Channel 149/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 4.68 V/m

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.278 mW/g; SAR(10 g) = 0.118 mW/g

Maximum value of SAR (measured) = 0.433 mW/g



Date/Time: 2008/3/7 16:45:07

Test Laboratory: Advance Data Technology

Ant A-11a-Ch157-M04

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 5785 MHz

Communication System: 802.11a ; Frequency: 5785 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
 Medium: HSL5800 Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 5.41 \text{ mho/m}$; $\epsilon_r = 35.4$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 151 mm
 Phantom section: Flat Section ; Separation distance : 0 mm (The front side of the EUT to the Phantom)
 Antenna type : Patch Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.4 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.59, 4.59, 4.59) ; Calibrated: 2007/8/30
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 157/Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.631 mW/g

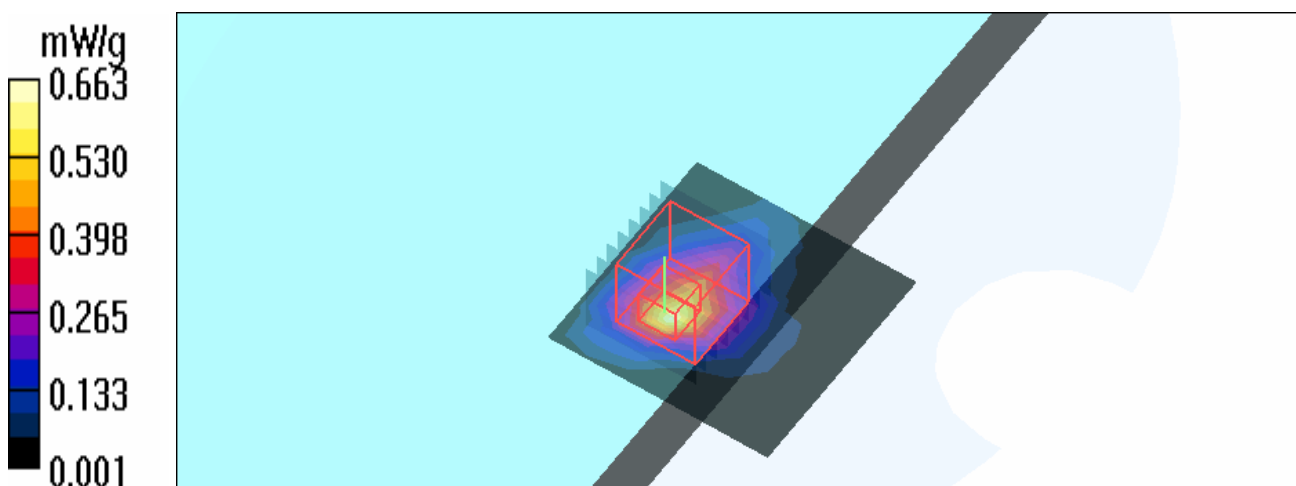
Mid. Channel 157/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$

Reference Value = 6.05 V/m

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.134 mW/g

Maximum value of SAR (measured) = 0.663 mW/g



Date/Time: 2008/3/7 17:09:42

Test Laboratory: Advance Data Technology

Ant A-11a-Ch165-M04

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 5825 MHz

Communication System: 802.11a ; Frequency: 5825 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: HSL5800 Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 5.46 \text{ mho/m}$; $\epsilon_r = 35.3$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 151 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.4 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.59, 4.59, 4.59) ; Calibrated: 2007/8/30
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 165/Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.582 mW/g

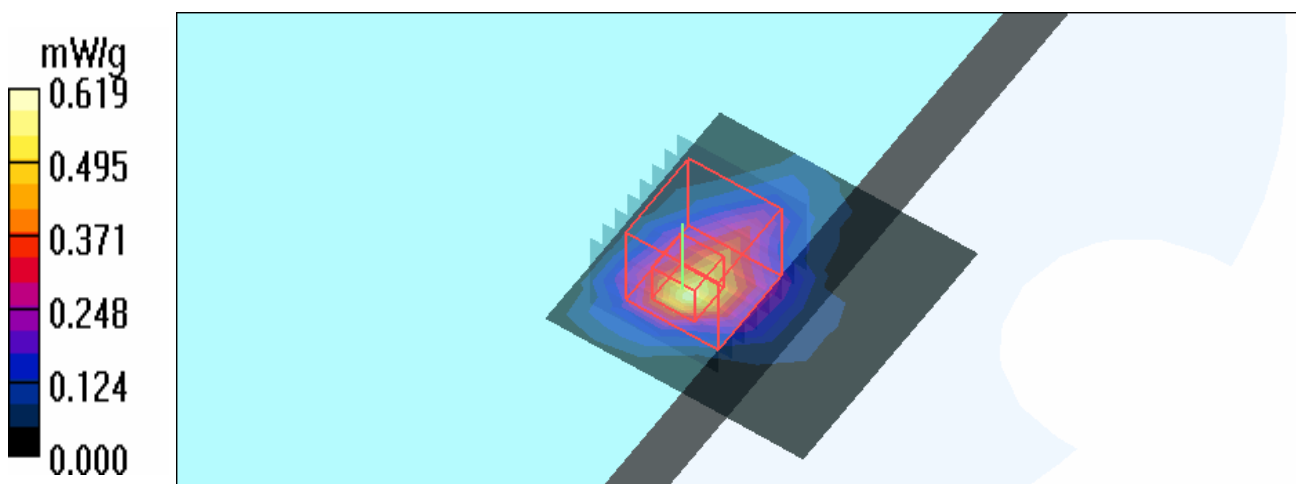
High Channel 165/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$

Reference Value = 5.04 V/m

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.125 mW/g

Maximum value of SAR (measured) = 0.619 mW/g



Date/Time: 2008/3/7 18:14:10

Test Laboratory: Advance Data Technology

Ant B-11a-Ch48-M05

DUT: Front End ; Type: Pixium FE 3543 pR ; Test Frequency: 5240 MHz

Communication System: 802.11a ; Frequency: 5240 MHz ; Duty Cycle: 1:1 ; Modulation type: BPSK
Medium: HSL5800 Medium parameters used: $f = 5240$ MHz; $\sigma = 4.75$ mho/m; $\epsilon_r = 36.3$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm

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

Antenna type : Patch Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.4 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(5.13, 5.13, 5.13) ; Calibrated: 2007/8/30
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2007/8/29
- 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 48/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.764 mW/g

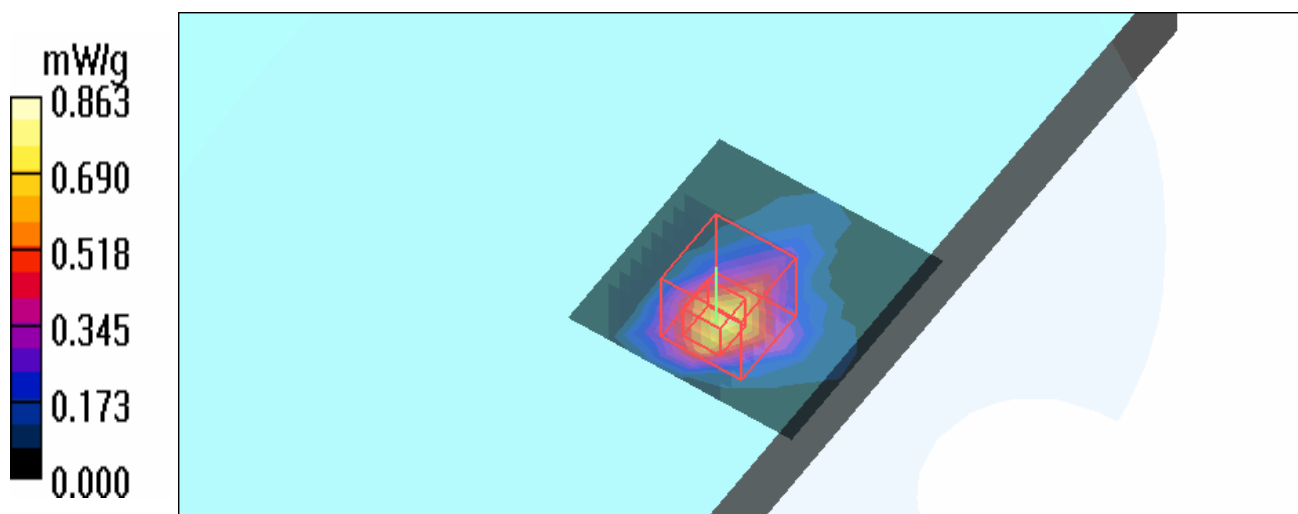
Mid. Channel 48/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 5.83 V/m

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 0.535 mW/g; SAR(10 g) = 0.183 mW/g

Maximum value of SAR (measured) = 0.863 mW/g



Date/Time: 2008/3/7 10:21:25

Test Laboratory: Advance Data Technology

System Validation Check-HSL 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: HSL2450; Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.83 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$;
 Liquid level : 150 mm
 Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom)
 Air temp. : 22.5 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1790 ; ConvF(4.74, 4.74, 4.74) ; Calibrated: 2007/11/20
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2007/8/29
- 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) = 14.5 mW/g

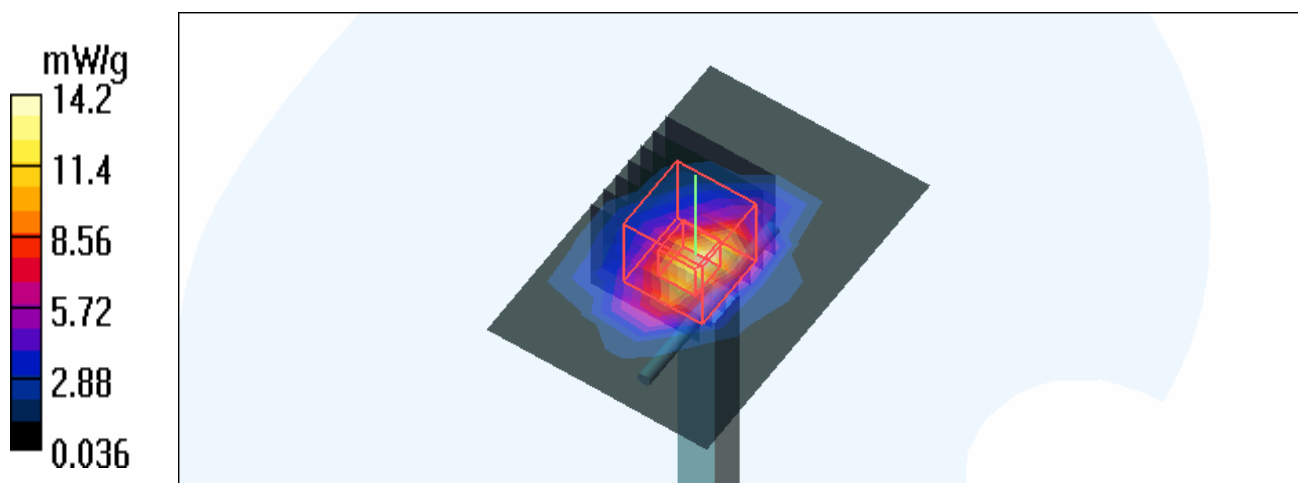
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.7 V/m; Power Drift = -0.081 dB

Peak SAR (extrapolated) = 30.6 W/kg

SAR(1 g) = 12.9 mW/g; SAR(10 g) = 5.97 mW/g

Maximum value of SAR (measured) = 14.2 mW/g



Date/Time: 2008/3/7 13:04:49

Test Laboratory: Advance Data Technology

System Validation Check-HSL 5GHz

DUT: Dipole 5 GHz ; Type: D5GHzV2 ; Serial: 1018 ; Test Frequency: 5200 MHz

Communication System: CW ; Frequency: 5200 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: HSL5800; Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.7 \text{ mho/m}$; $\epsilon_r = 36.3$; $\rho = 1000 \text{ kg/m}^3$;
 Liquid level : 151 mm
 Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom)
 Air temp. : 22.6 degrees ; Liquid temp. : 21.4 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(5.13, 5.13, 5.13) ; Calibrated: 2007/8/30
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2007/8/29
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

f=5200, d=10mm, Pin=250mW/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 36.6 mW/g

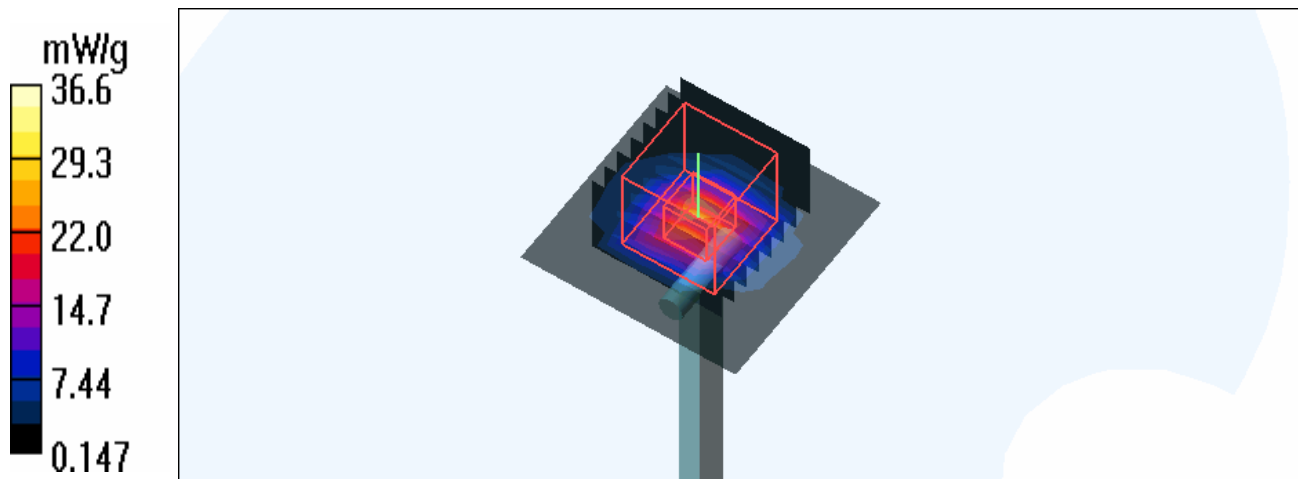
f=5200, d=10mm, Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 76.1 V/m; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 70.3 W/kg

SAR(1 g) = 19.6 mW/g; SAR(10 g) = 5.52 mW/g

Maximum value of SAR (measured) = 31.6 mW/g



Date/Time: 2008/3/7 13:47:05

Test Laboratory: Advance Data Technology

System Validation Check-HSL 5GHz

DUT: Dipole 5 GHz ; Type: D5GHzV2 ; Serial: 1018 ; Test Frequency: 5800 MHz

Communication System: CW ; Frequency: 5800 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: HSL5800; Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.43 \text{ mho/m}$; $\epsilon_r = 35.4$; $\rho = 1000 \text{ kg/m}^3$;
 Liquid level : 151 mm
 Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom)
 Air temp. : 22.6 degrees ; Liquid temp. : 21.4 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.59, 4.59, 4.59) ; Calibrated: 2007/8/30
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2007/8/29
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

f=5800, d=10mm, Pin=250mW/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 23.6 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 = 66.5 V/m; Power Drift = -0.081 dB

Peak SAR (extrapolated) = 78.0 W/kg

SAR(1 g) = 18.9 mW/g; SAR(10 g) = 5.31 mW/g

Maximum value of SAR (measured) = 30.6 mW/g

