

APPENDIX A: TEST DATA

Liquid Level Photo

MSL 2600MHz D=150mm



Test Laboratory: Advance Data Technology

M01-5M-QPSK-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2498.5 MHz

Communication System: FCC Wimax ; Frequency: 2498.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2498.5$ MHz; $\sigma = 2.05$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.01 mW/g

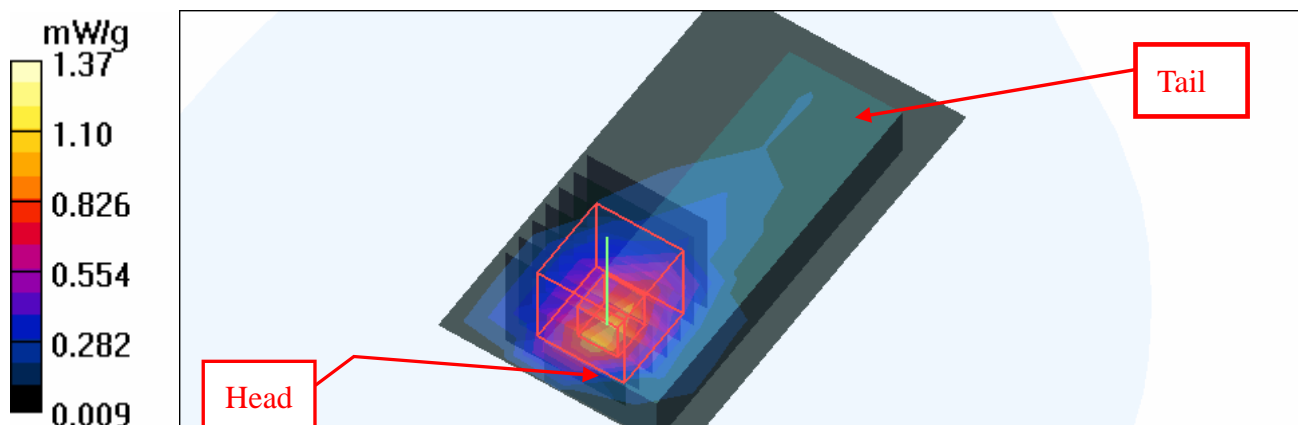
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

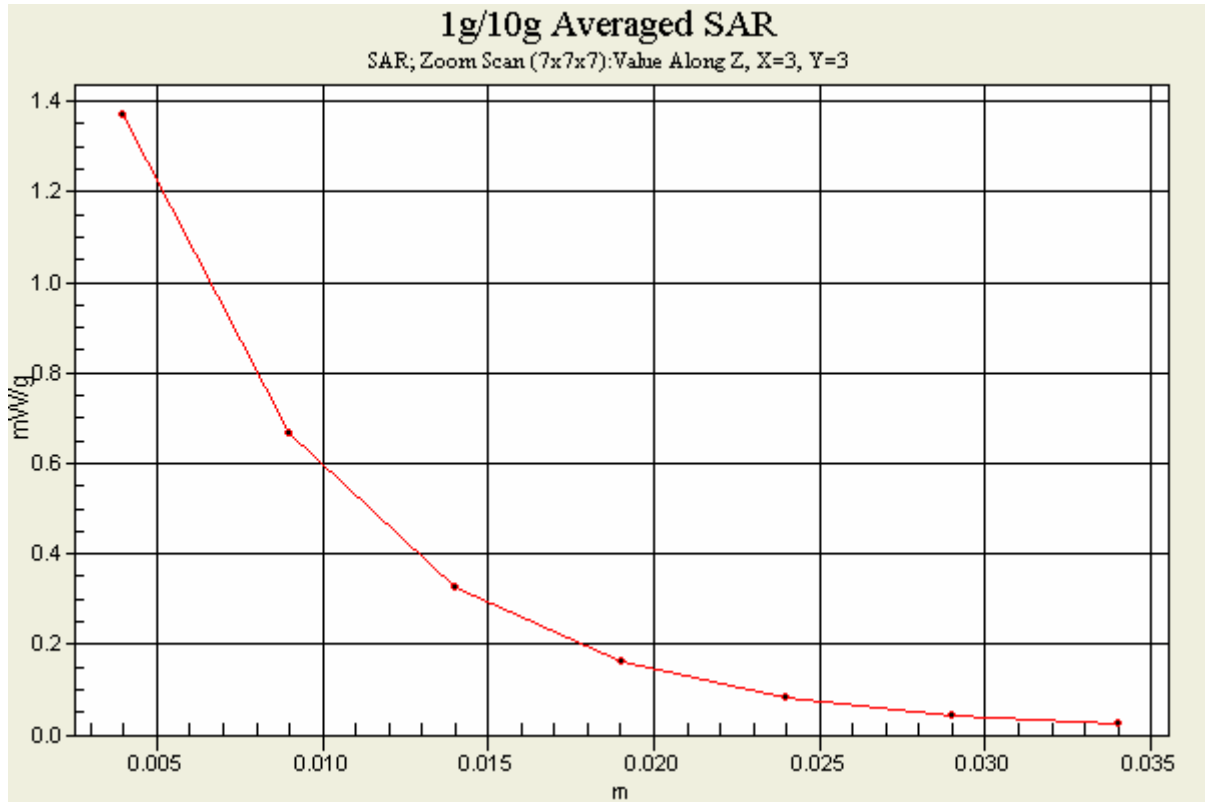
Reference Value = 22.0 V/m

Peak SAR (extrapolated) = 2.63 W/kg

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.500 mW/g

Maximum value of SAR (measured) = 1.37 mW/g





Test Laboratory: Advance Data Technology

M01-5M-QPSK-Ch354

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.14$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.954 mW/g

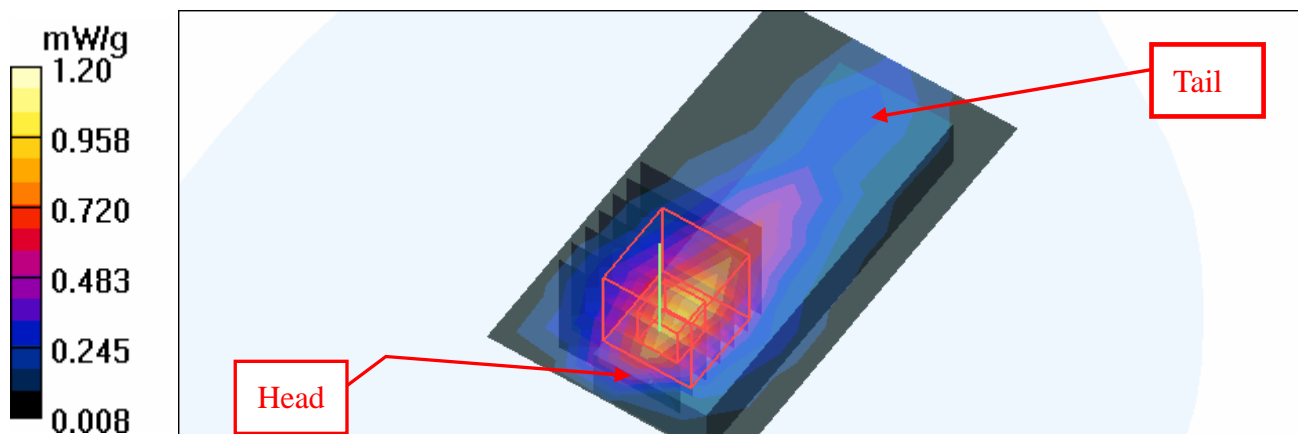
Mid Channel 354/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.3 V/m

Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.486 mW/g

Maximum value of SAR (measured) = 1.20 mW/g



Test Laboratory: Advance Data Technology

M01-5M-QPSK-Ch756

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2687.5 MHz

Communication System: FCC Wimax ; Frequency: 2687.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2687.5$ MHz; $\sigma = 2.22$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 756/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.992 mW/g

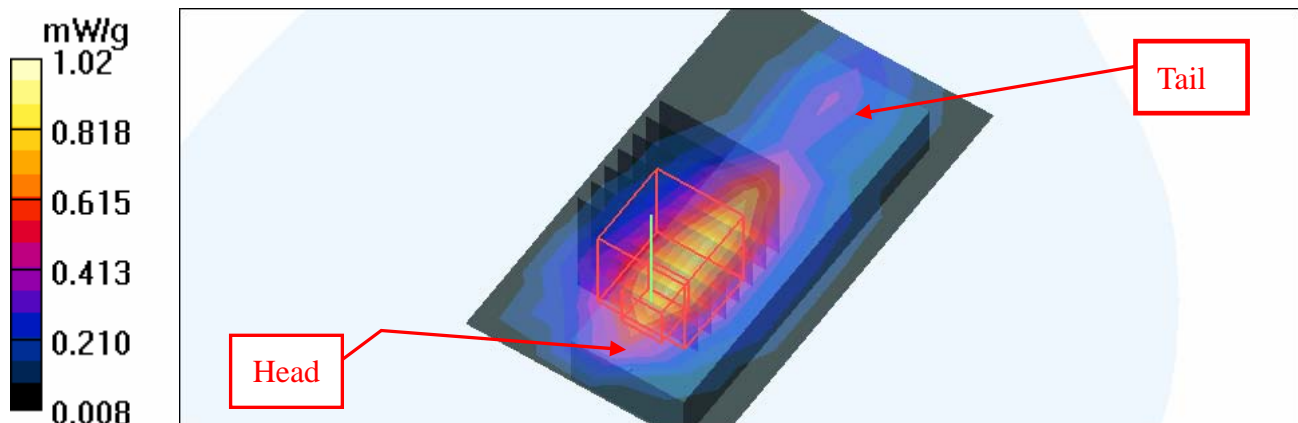
High Channel 756/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.9 V/m

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = **0.937 mW/g**; SAR(10 g) = **0.465 mW/g**

Maximum value of SAR (measured) = 1.02 mW/g



Test Laboratory: Advance Data Technology

M02-5M-QPSK-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2498.5 MHz

Communication System: FCC Wimax ; Frequency: 2498.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2498.5$ MHz; $\sigma = 2.05$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.915 mW/g

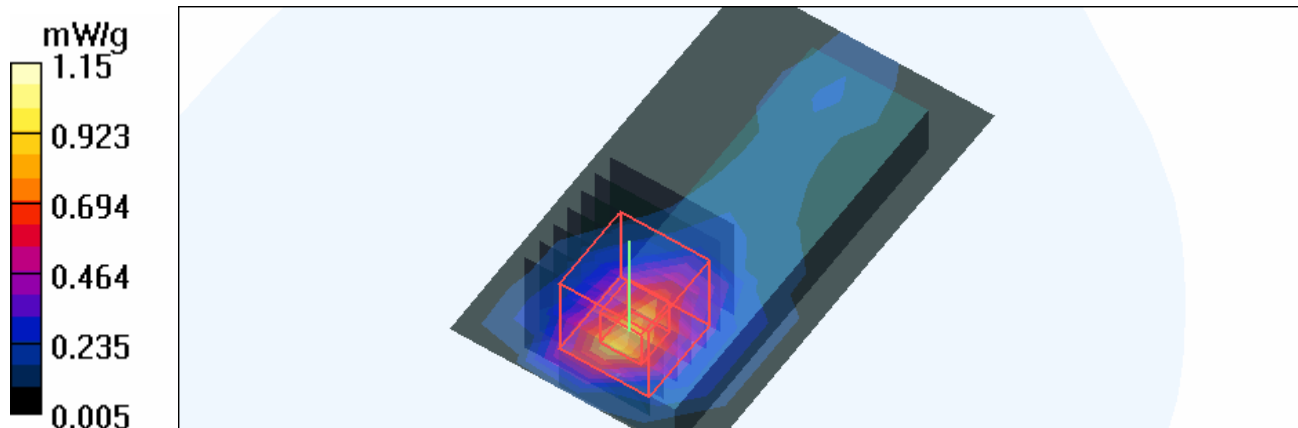
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.8 V/m

Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 0.995 mW/g; SAR(10 g) = 0.431 mW/g

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



Test Laboratory: Advance Data Technology

M02-5M-QPSK-Ch354

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.14$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.703 mW/g

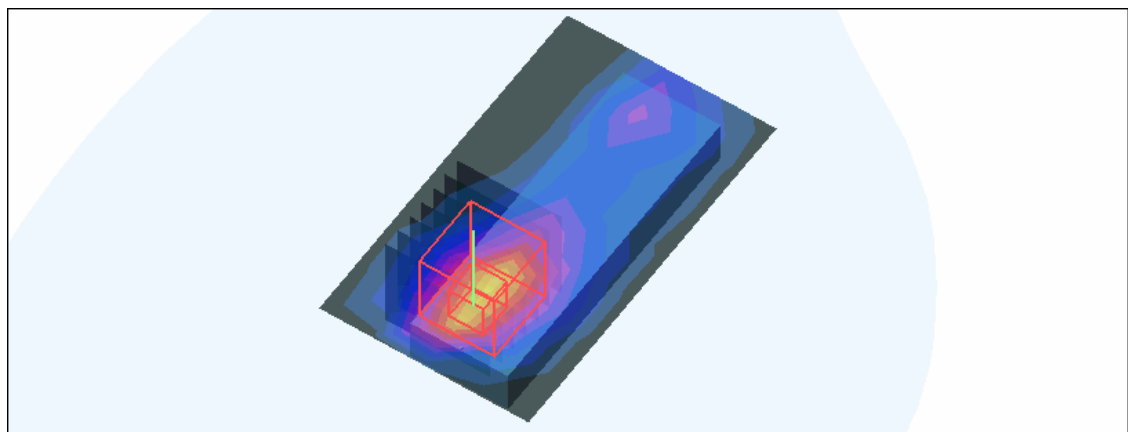
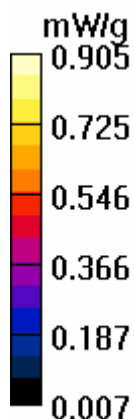
Mid Channel 354/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.9 V/m

Peak SAR (extrapolated) = 1.79 W/kg

SAR(1 g) = 0.807 mW/g; SAR(10 g) = 0.362 mW/g

Maximum value of SAR (measured) = 0.905 mW/g



Test Laboratory: Advance Data Technology

M02-5M-QPSK-Ch756

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2687.5 MHz

Communication System: FCC Wimax ; Frequency: 2687.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2687.5 \text{ MHz}$; $\sigma = 2.22 \text{ mho/m}$; $\epsilon_r = 52.8$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 756/Area Scan (5x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.676 mW/g

High Channel 756/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.7 V/m

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.696 mW/g; SAR(10 g) = 0.341 mW/g

Maximum value of SAR (measured) = 0.772 mW/g

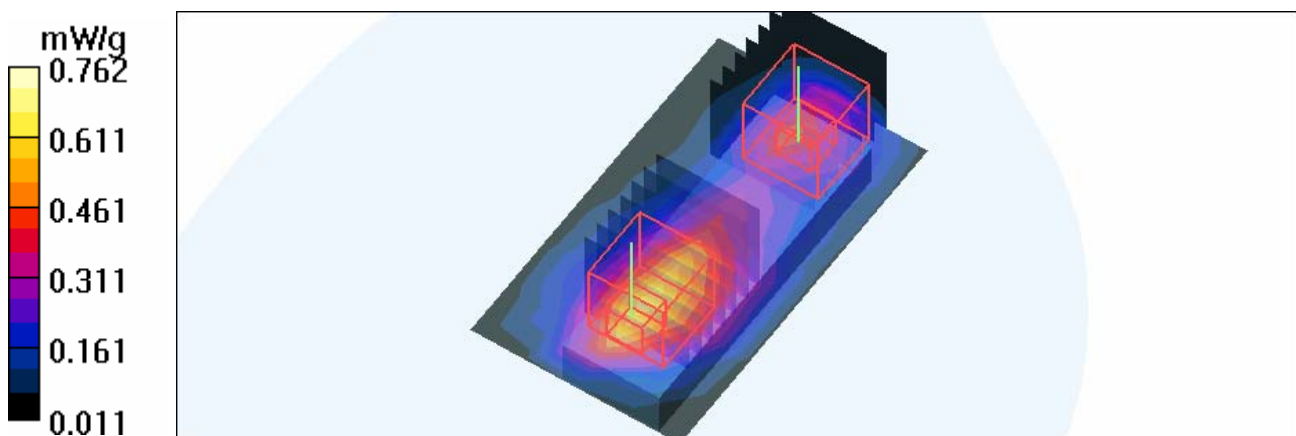
High Channel 756/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.7 V/m

Peak SAR (extrapolated) = 0.925 W/kg

SAR(1 g) = 0.469 mW/g; SAR(10 g) = 0.231 mW/g

Maximum value of SAR (measured) = 0.526 mW/g



Test Laboratory: Advance Data Technology

M03-5M-QPSK-Ch354

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.14$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.155 mW/g

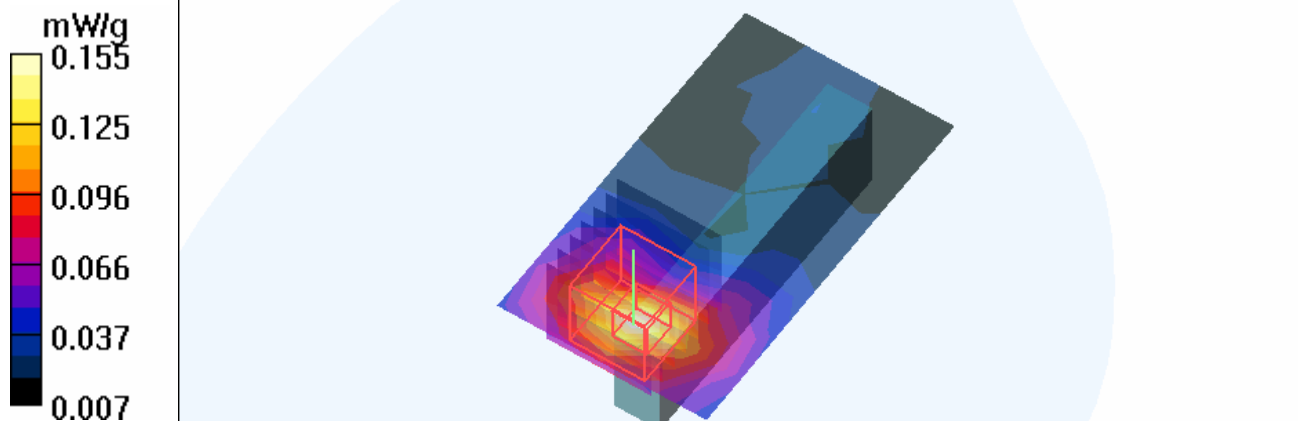
Mid Channel 354/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.64 V/m

Peak SAR (extrapolated) = 0.282 W/kg

SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.073 mW/g

Maximum value of SAR (measured) = 0.151 mW/g



Test Laboratory: Advance Data Technology

M04-5M-QPSK-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2498.5 MHz

Communication System: FCC Wimax ; Frequency: 2498.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2498.5$ MHz; $\sigma = 2.05$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.496 mW/g

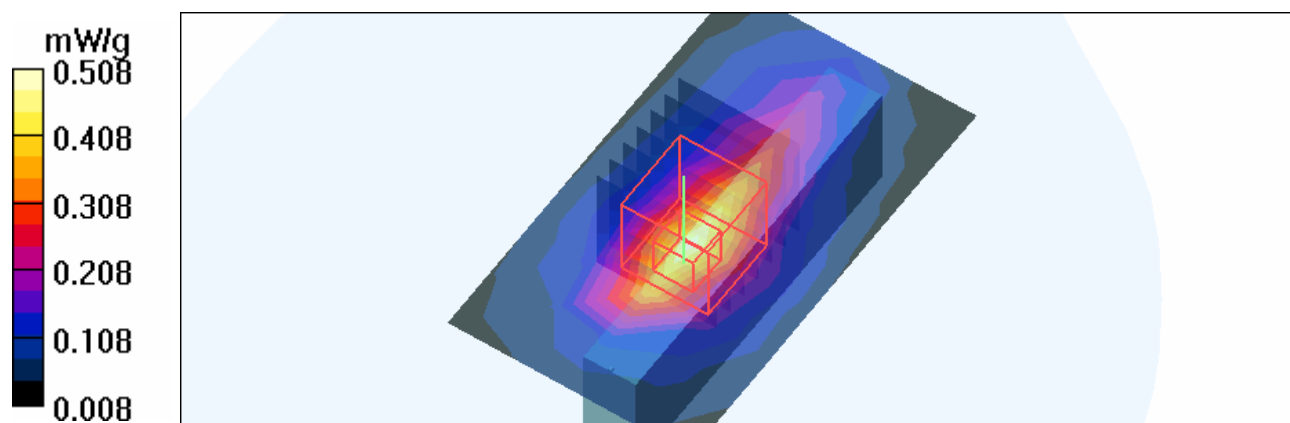
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.58 V/m

Peak SAR (extrapolated) = 0.893 W/kg

SAR(1 g) = **0.452 mW/g**; SAR(10 g) = 0.224 mW/g

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



Test Laboratory: Advance Data Technology

M04-5M-QPSK-Ch354

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587 \text{ MHz}$; $\sigma = 2.14 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

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

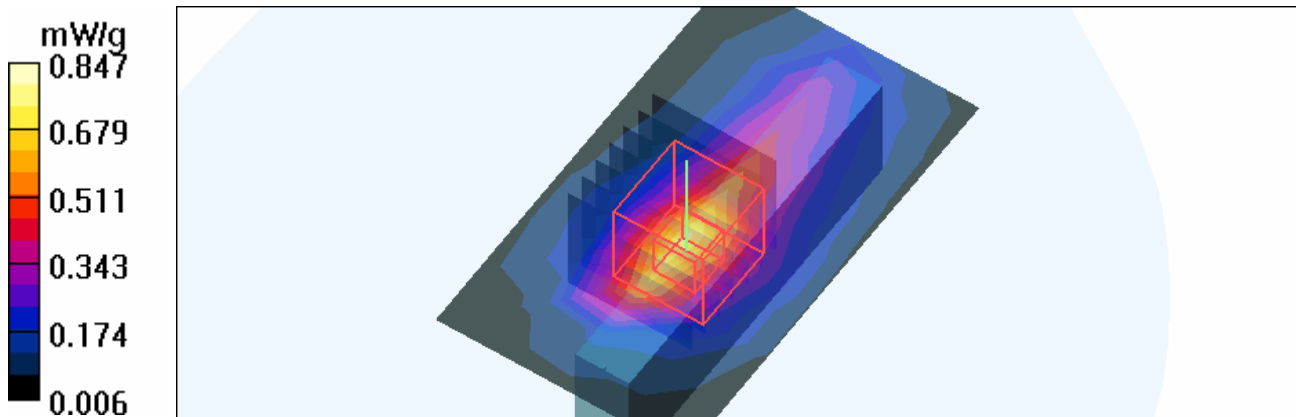
Mid Channel 354/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.92 V/m

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.738 mW/g; SAR(10 g) = 0.361 mW/g

Maximum value of SAR (measured) = 0.847 mW/g



Test Laboratory: Advance Data Technology

M04-5M-QPSK-Ch756

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2687.5 MHz

Communication System: FCC Wimax ; Frequency: 2687.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2687.5$ MHz; $\sigma = 2.22$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 756/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.680 mW/g

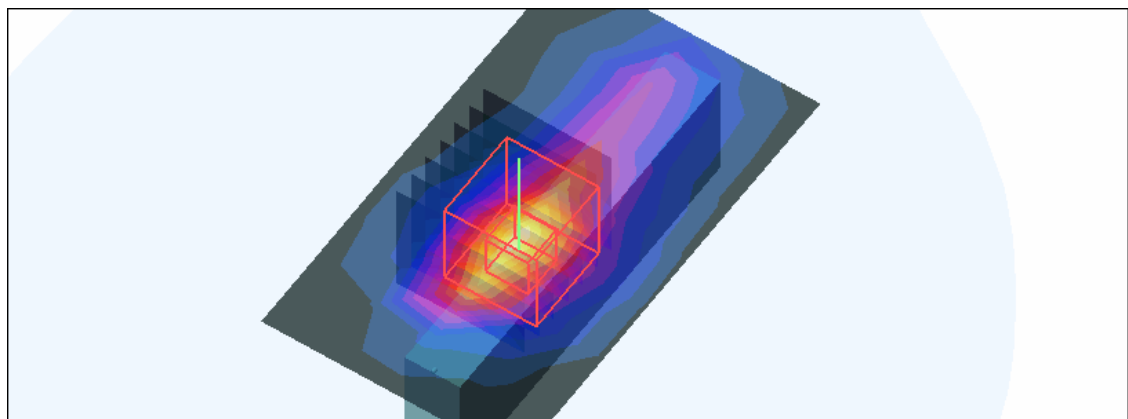
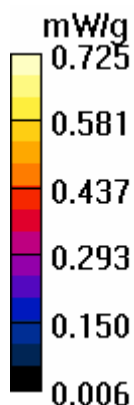
High Channel 756/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.37 V/m

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = **0.641 mW/g**; SAR(10 g) = 0.307 mW/g

Maximum value of SAR (measured) = 0.725 mW/g



Test Laboratory: Advance Data Technology

M05-5M-QPSK-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2498.5 MHz

Communication System: FCC Wimax ; Frequency: 2498.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2498.5$ MHz; $\sigma = 2.05$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 0/Area Scan (5x5x1): Measurement grid: dx=15mm, dy=15mm

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

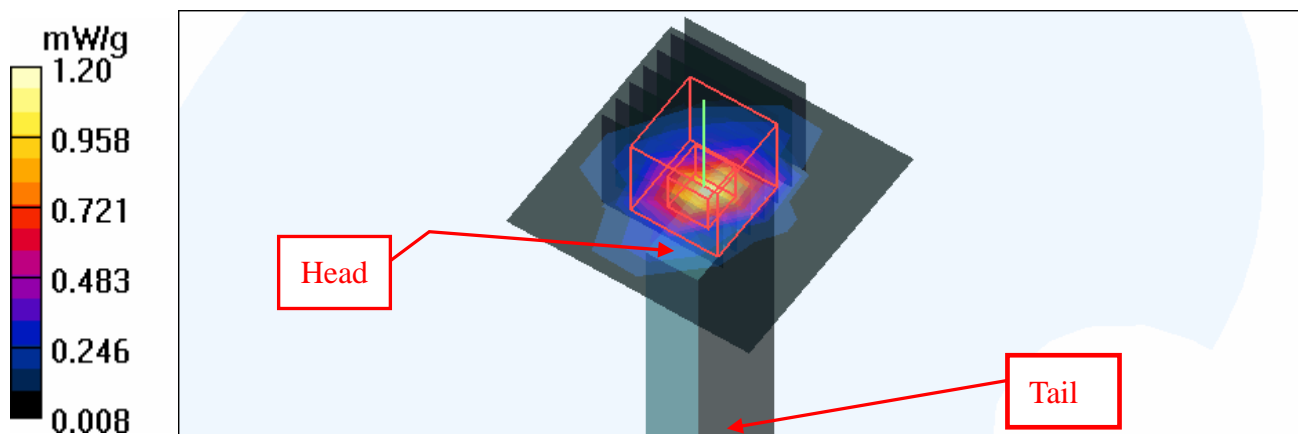
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.1 V/m

Peak SAR (extrapolated) = 2.30 W/kg

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

Maximum value of SAR (measured) = 1.20 mW/g



Test Laboratory: Advance Data Technology

M05-5M-QPSK-Ch354

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.14$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 354/Area Scan (5x5x1): Measurement grid: dx=15mm, dy=15mm

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

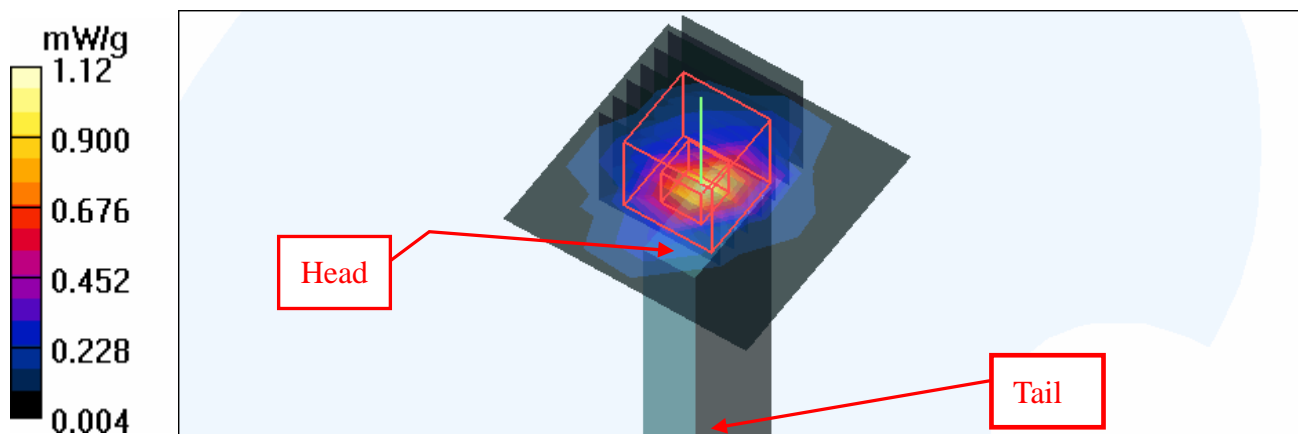
Mid Channel 354/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.0 V/m

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 0.931 mW/g; SAR(10 g) = 0.361 mW/g

Maximum value of SAR (measured) = 1.12 mW/g



Test Laboratory: Advance Data Technology

M05-5M-QPSK-Ch756

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2687.5 MHz

Communication System: FCC Wimax ; Frequency: 2687.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2687.5$ MHz; $\sigma = 2.22$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 756/Area Scan (5x5x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.982 mW/g

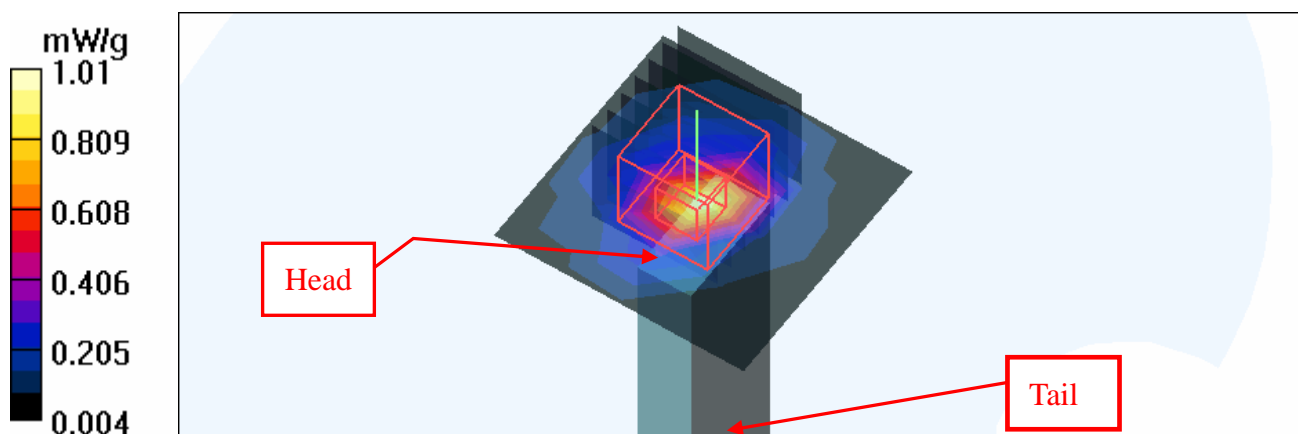
High Channel 756/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.7 V/m

Peak SAR (extrapolated) = 2.08 W/kg

SAR(1 g) = **0.850** mW/g; SAR(10 g) = 0.334 mW/g

Maximum value of SAR (measured) = 1.01 mW/g



Test Laboratory: Advance Data Technology

M06-10M-QPSK-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2501 MHz

Communication System: FCC Wimax ; Frequency: 2501 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2501$ MHz; $\sigma = 2.05$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.993 mW/g

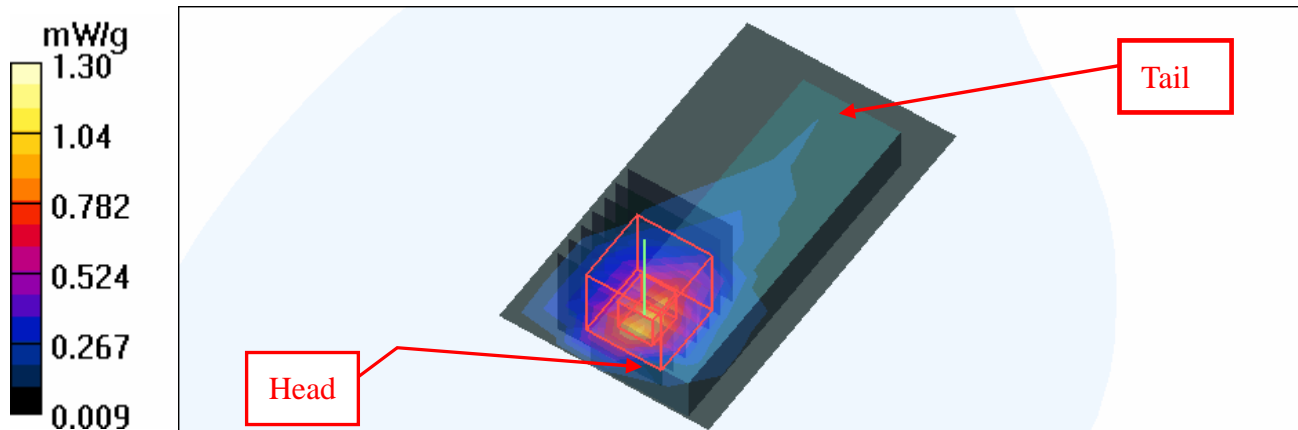
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.0 V/m

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.468 mW/g

Maximum value of SAR (measured) = 1.30 mW/g



Test Laboratory: Advance Data Technology

M06-10M-QPSK-Ch344

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587 \text{ MHz}$; $\sigma = 2.14 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 344/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.980 mW/g

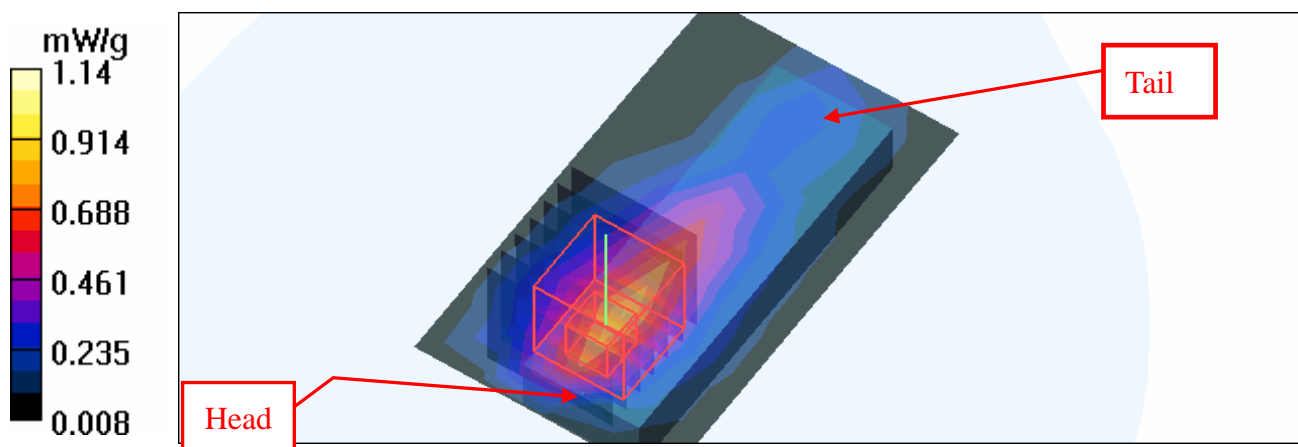
Mid Channel 344/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.9 V/m

Peak SAR (extrapolated) = 2.23 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.463 mW/g

Maximum value of SAR (measured) = 1.14 mW/g



Test Laboratory: Advance Data Technology

M06-10M-QPSK-Ch736

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2685 MHz

Communication System: FCC Wimax ; Frequency: 2685 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2685$ MHz; $\sigma = 2.22$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 736/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.753 mW/g

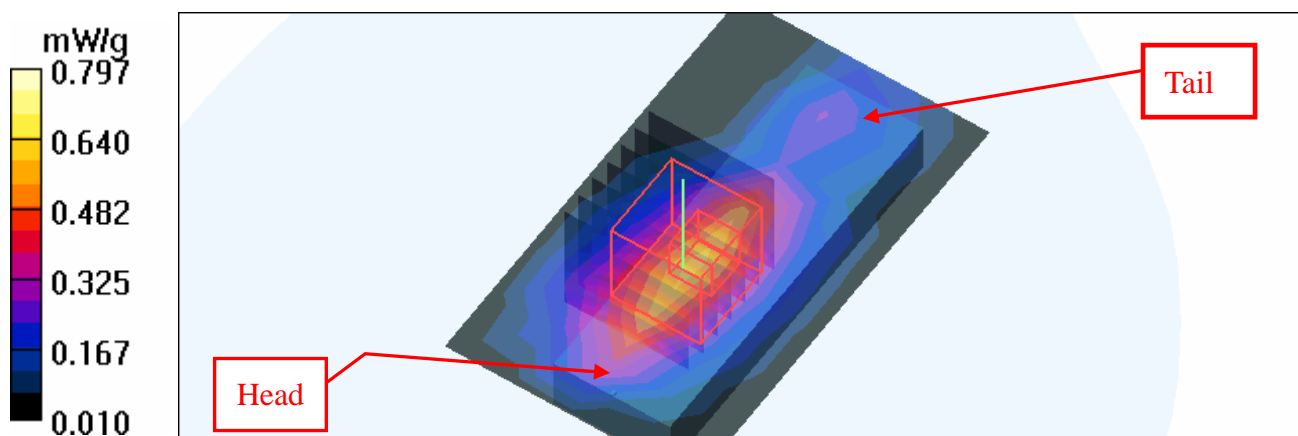
High Channel 736/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.4 V/m

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = **0.723** mW/g; SAR(10 g) = 0.355 mW/g

Maximum value of SAR (measured) = 0.797 mW/g



Test Laboratory: Advance Data Technology

M07-10M-QPSK-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2501 MHz

Communication System: FCC Wimax ; Frequency: 2501 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2501$ MHz; $\sigma = 2.05$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.755 mW/g

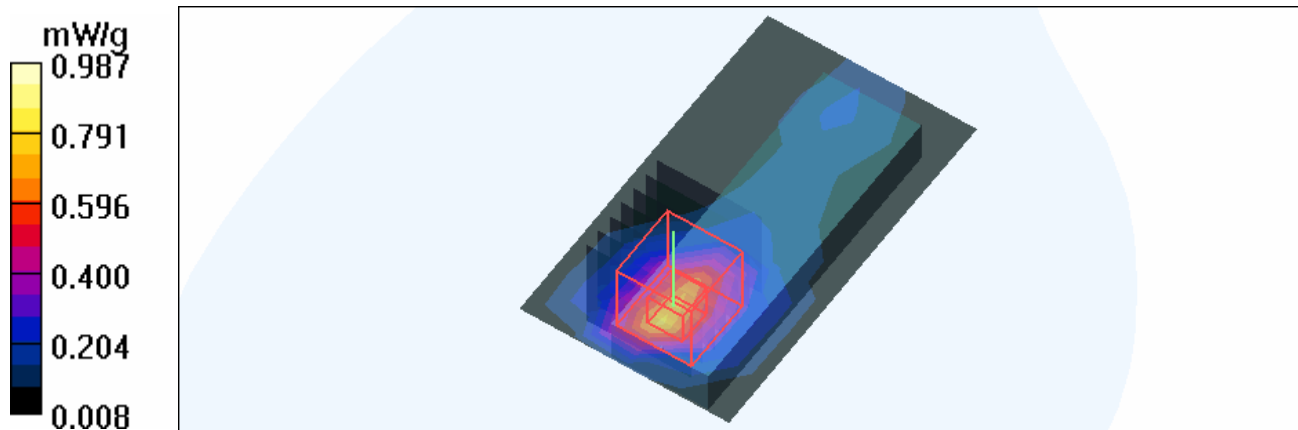
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.5 V/m

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.852 mW/g; SAR(10 g) = 0.371 mW/g

Maximum value of SAR (measured) = 0.987 mW/g



Test Laboratory: Advance Data Technology

M07-10M-QPSK-Ch344

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587 \text{ MHz}$; $\sigma = 2.14 \text{ mho/m}$; $\epsilon_r = 53.1$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 344/Area Scan (5x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.644 mW/g

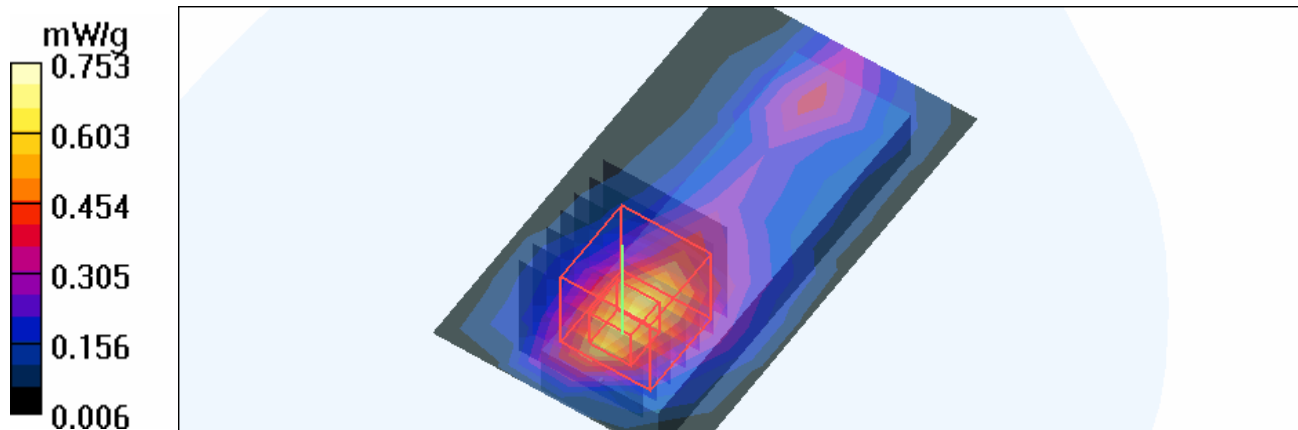
Mid Channel 344/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.1 V/m

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.672 mW/g; SAR(10 g) = 0.311 mW/g

Maximum value of SAR (measured) = 0.753 mW/g



Test Laboratory: Advance Data Technology

M07-10M-QPSK-Ch736

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2685 MHz

Communication System: FCC Wimax ; Frequency: 2685 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2685 \text{ MHz}$; $\sigma = 2.22 \text{ mho/m}$; $\epsilon_r = 52.8$; $\rho = 1000 \text{ kg/m}^3$; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 736/Area Scan (5x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.578 mW/g

High Channel 736/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.2 V/m

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.558 mW/g; SAR(10 g) = 0.281 mW/g

Maximum value of SAR (measured) = 0.614 mW/g

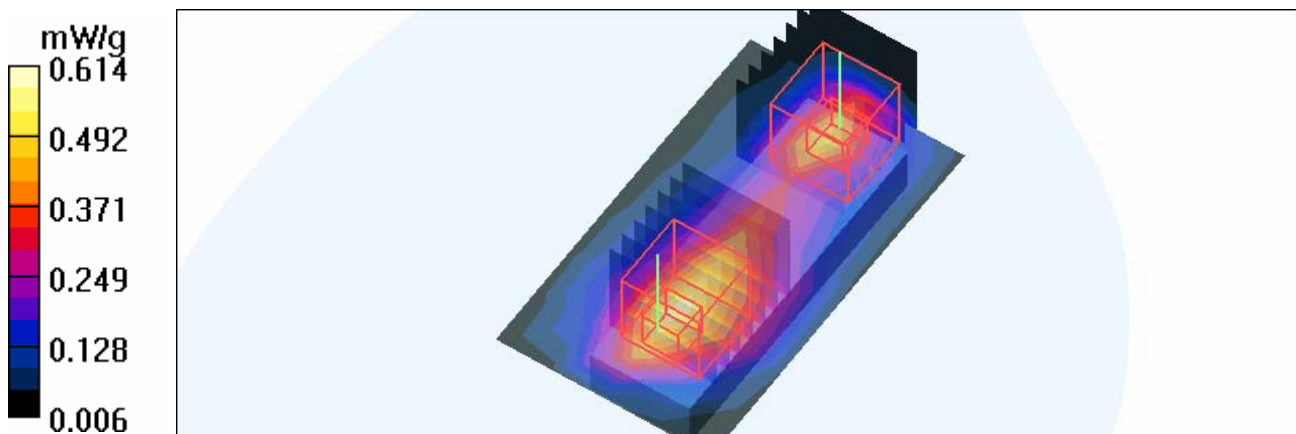
High Channel 736/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.2 V/m

Peak SAR (extrapolated) = 0.915 W/kg

SAR(1 g) = 0.460 mW/g; SAR(10 g) = 0.221 mW/g

Maximum value of SAR (measured) = 0.517 mW/g



Test Laboratory: Advance Data Technology

M08-10M-QPSK-Ch344

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.14$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 344/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.172 mW/g

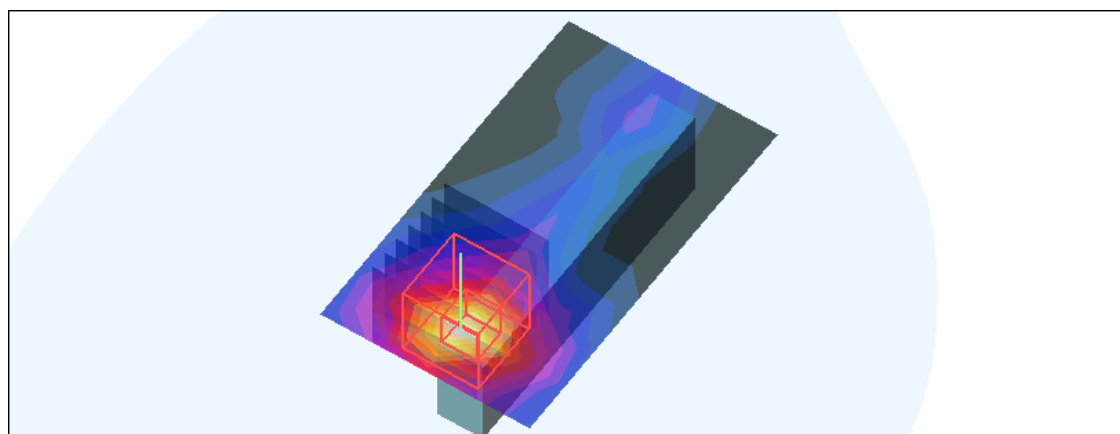
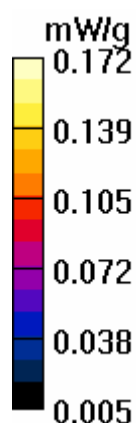
Mid Channel 344/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.85 V/m

Peak SAR (extrapolated) = 0.321 W/kg

SAR(1 g) = 0.157 mW/g; SAR(10 g) = 0.079 mW/g

Maximum value of SAR (measured) = 0.171 mW/g



Test Laboratory: Advance Data Technology

M09-10M-QPSK-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2501 MHz

Communication System: FCC Wimax ; Frequency: 2501 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2501$ MHz; $\sigma = 2.05$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.427 mW/g

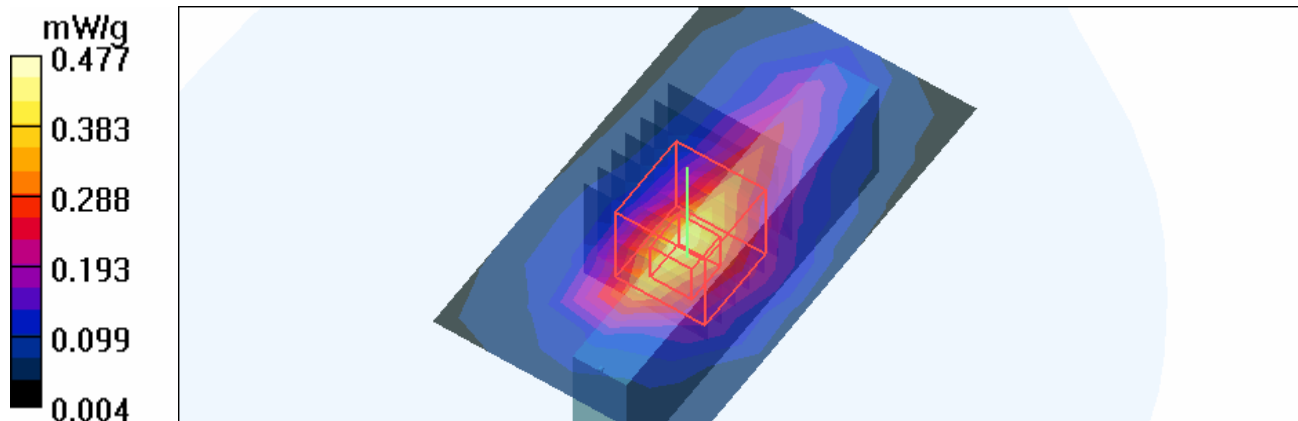
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.41 V/m

Peak SAR (extrapolated) = 0.841 W/kg

SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.207 mW/g

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



Test Laboratory: Advance Data Technology

M09-10M-QPSK-Ch344**DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz**

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.14$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 344/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.693 mW/g

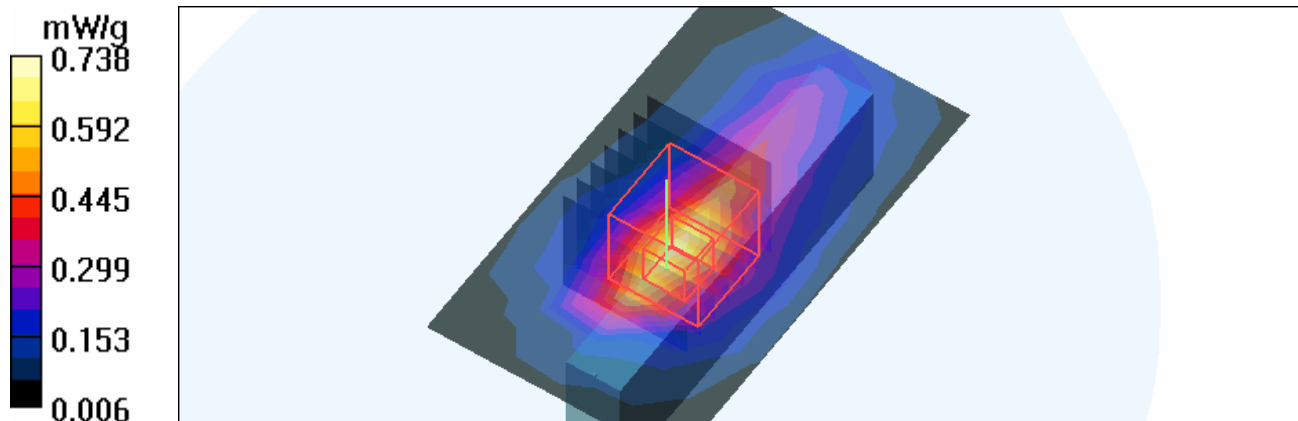
Mid Channel 344/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.57 V/m

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = **0.658 mW/g**; SAR(10 g) = 0.321 mW/g

Maximum value of SAR (measured) = 0.738 mW/g



Test Laboratory: Advance Data Technology

M09-10M-QPSK-Ch736**DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2685 MHz**

Communication System: FCC Wimax ; Frequency: 2685 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2685$ MHz; $\sigma = 2.22$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 736/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.689 mW/g

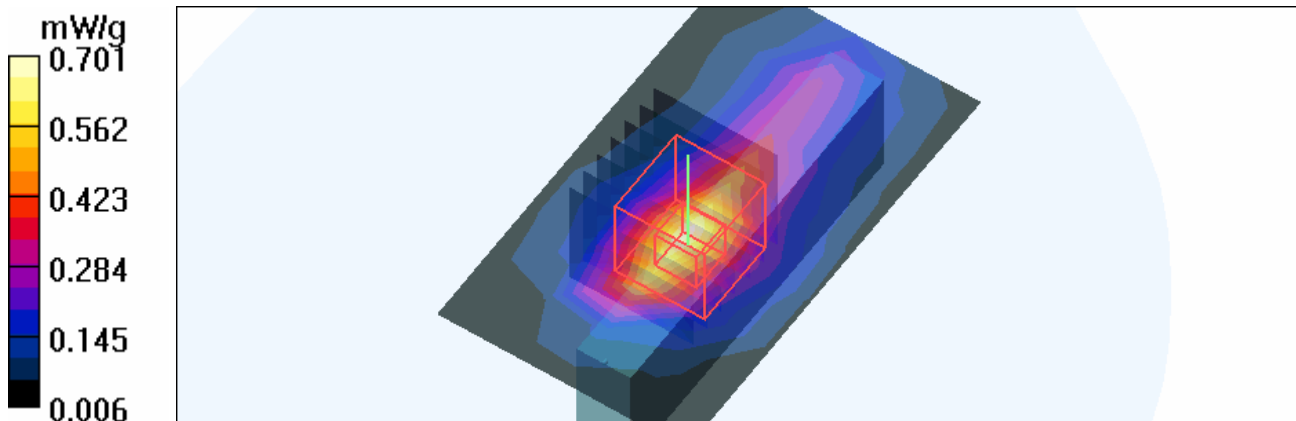
High Channel 736/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.07 V/m

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = **0.618** mW/g; SAR(10 g) = **0.293** mW/g

Maximum value of SAR (measured) = 0.701 mW/g



Test Laboratory: Advance Data Technology

M10-10M-QPSK-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2501 MHz

Communication System: FCC Wimax ; Frequency: 2501 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2501$ MHz; $\sigma = 2.05$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 0/Area Scan (5x5x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.30 mW/g

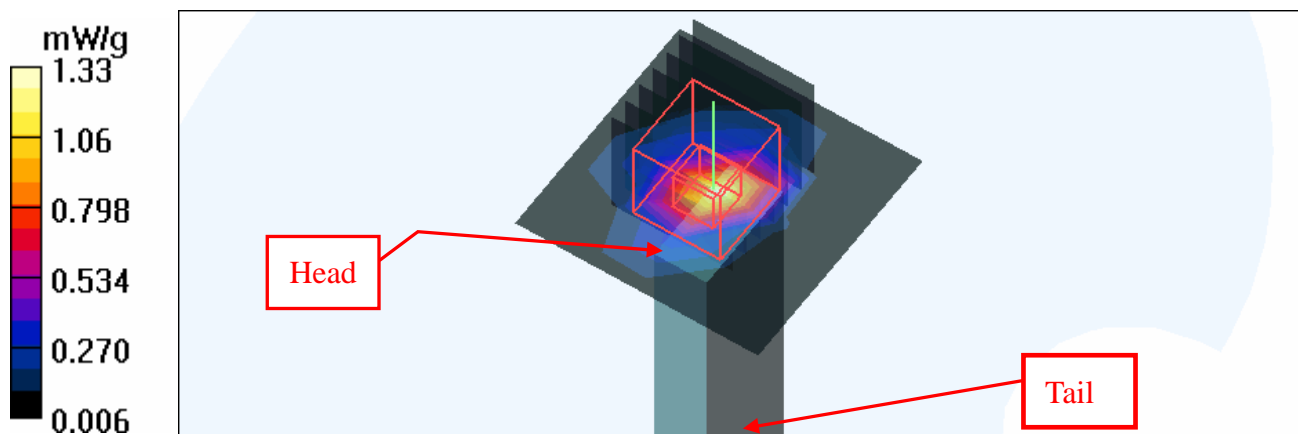
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.8 V/m

Peak SAR (extrapolated) = 2.66 W/kg

SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.417 mW/g

Maximum value of SAR (measured) = 1.33 mW/g



Test Laboratory: Advance Data Technology

M10-10M-QPSK-Ch344**DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz**

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.14$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 344/Area Scan (5x5x1): Measurement grid: dx=15mm, dy=15mm

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

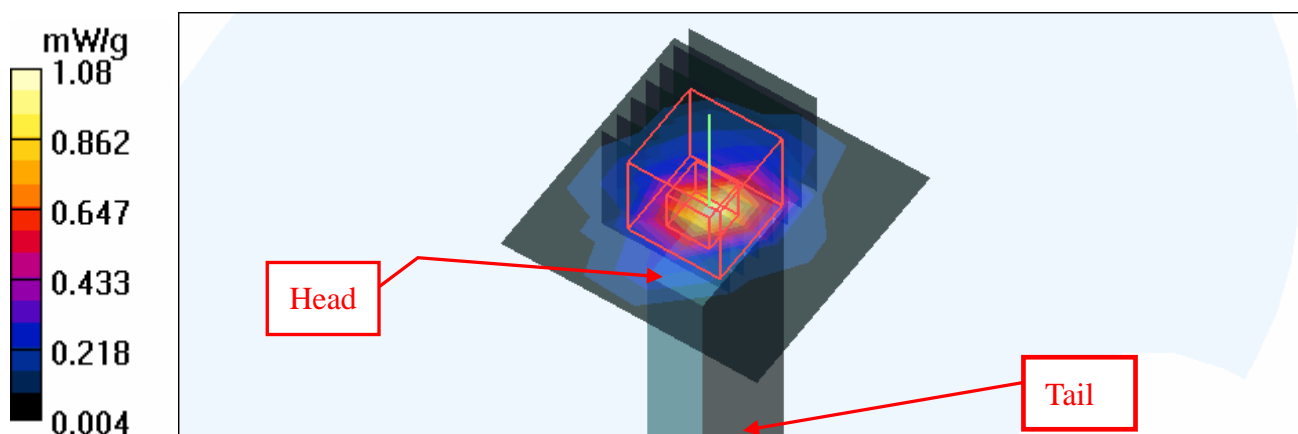
Mid Channel 344/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.9 V/m

Peak SAR (extrapolated) = 2.17 W/kg

SAR(1 g) = 0.893 mW/g; SAR(10 g) = 0.344 mW/g

Maximum value of SAR (measured) = 1.08 mW/g



Test Laboratory: Advance Data Technology

M10-10M-QPSK-Ch736

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2685 MHz

Communication System: FCC Wimax ; Frequency: 2685 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2685$ MHz; $\sigma = 2.22$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 736/Area Scan (5x5x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.875 mW/g

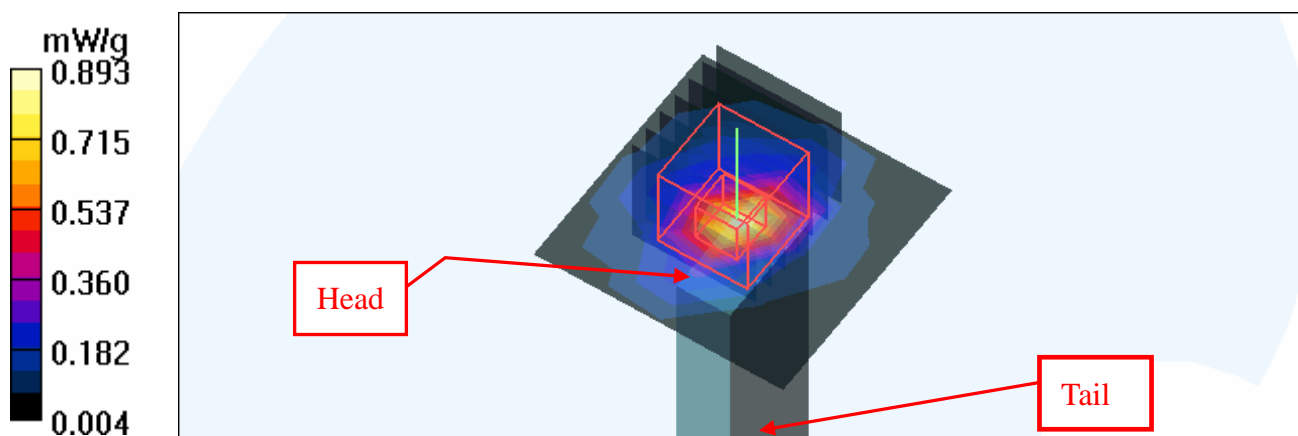
High Channel 736/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.2 V/m

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = **0.743 mW/g**; SAR(10 g) = **0.294 mW/g**

Maximum value of SAR (measured) = 0.893 mW/g



Test Laboratory: Advance Data Technology

System Validation Check-MSL 2600MHz

DUT: Dipole 2587 MHz ; Type: D2600V2 ; Serial: 1003 ; Test Frequency: 2600 MHz

Communication System: CW ; Frequency: 2600 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 2.14$ mho/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23.1 degrees ; Liquid temp. : 22.3 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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) = 17.3 mW/g

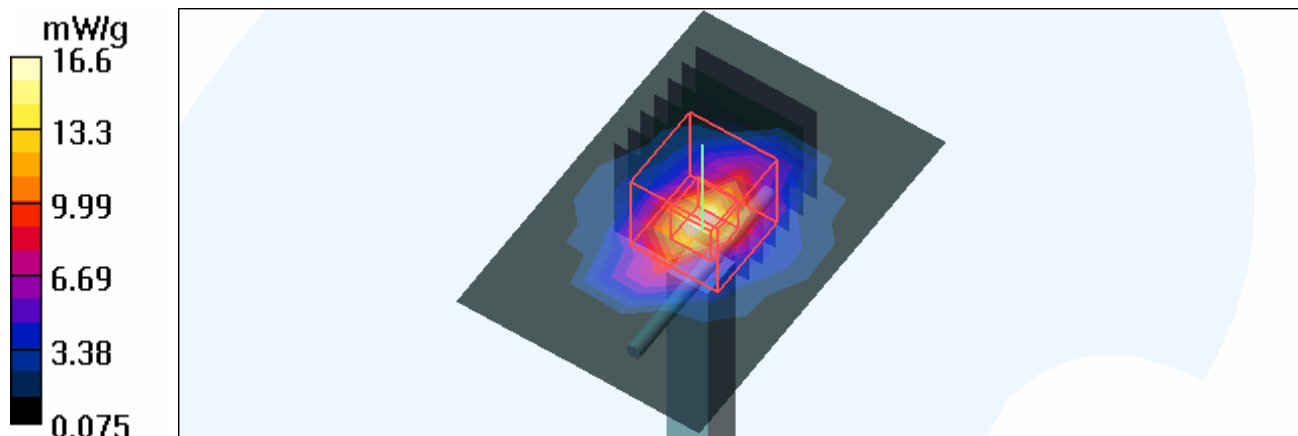
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.4 V/m; Power Drift = -0.073 dB

Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 14.4 mW/g; SAR(10 g) = 6.45 mW/g

Maximum value of SAR (measured) = 16.6 mW/g



APPENDIX A: TEST DATA

Liquid Level Photo

MSL 2600MHz D=150mm



Test Laboratory: Advance Data Technology

M11-5M-16Q1_2-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100

Communication System: FCC Wimax ; Frequency: 2498.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2498.5$ MHz; $\sigma = 2.08$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

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

Area scan find secondary maxima within 2dB and with a peak SAR value greater than 0.0012 W/Kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.52, 7.52, 7.52) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.20 mW/g

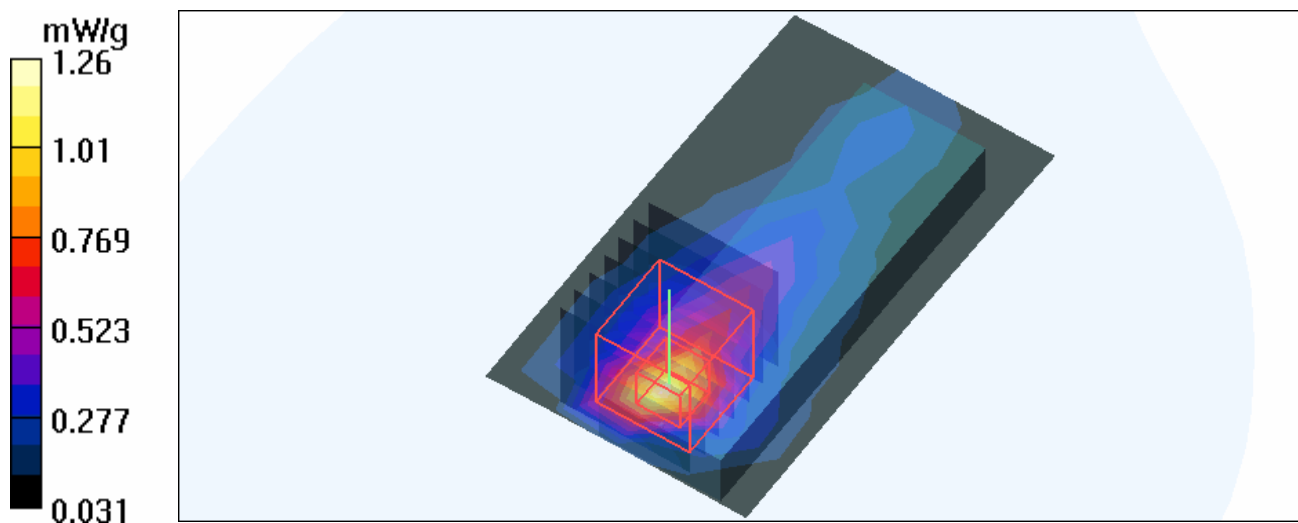
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.6 V/m

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.479 mW/g

Maximum value of SAR (measured) = 1.26 mW/g



Test Laboratory: Advance Data Technology

M12-5M-16Q1_2-Ch0**DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100**

Communication System: FCC Wimax ; Frequency: 2498.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2498.5$ MHz; $\sigma = 2.08$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

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

Area scan find secondary maxima within 2dB and with a peak SAR value greater than 0.0012 W/Kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.52, 7.52, 7.52) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.953 mW/g

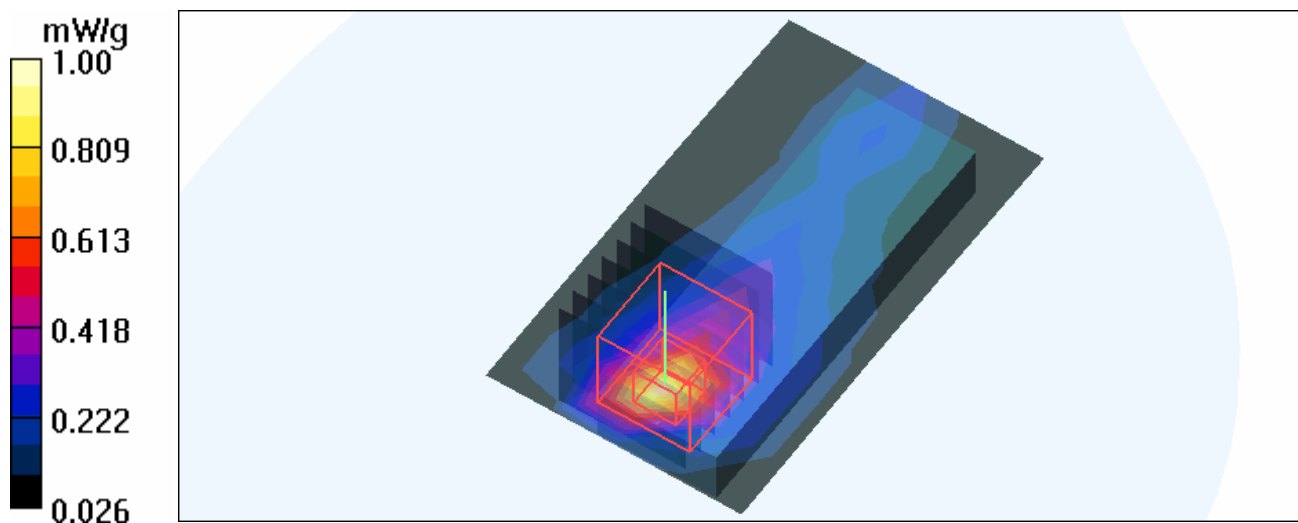
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.5 V/m

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.854 mW/g; SAR(10 g) = 0.386 mW/g

Maximum value of SAR (measured) = 1.00 mW/g



Test Laboratory: Advance Data Technology

M13-5M-16Q1_2-Ch0**DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100**

Communication System: FCC Wimax ; Frequency: 2498.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2498.5$ MHz; $\sigma = 2.08$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

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

Area scan find secondary maxima within 2dB and with a peak SAR value greater than 0.0012 W/Kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.52, 7.52, 7.52) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13
- 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 0/Area Scan (5x5x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.09 mW/g

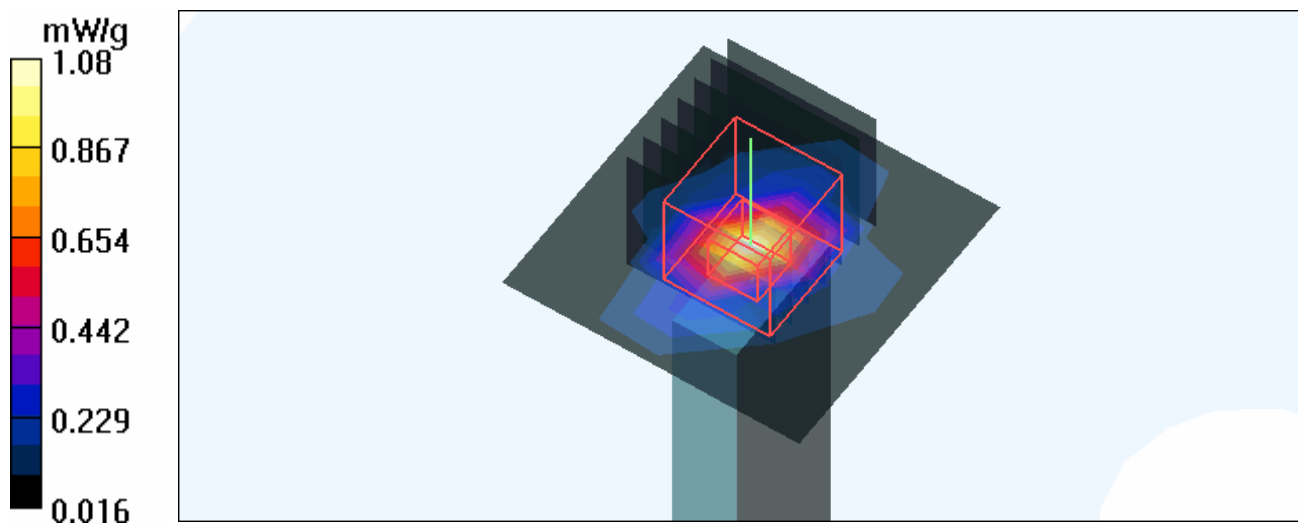
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.5 V/m

Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 0.909 mW/g; SAR(10 g) = 0.349 mW/g

Maximum value of SAR (measured) = 1.08 mW/g



Test Laboratory: Advance Data Technology

M14-10M-16Q1_2-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100

Communication System: FCC Wimax ; Frequency: 2501 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2501$ MHz; $\sigma = 2.08$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section ; Separation distance : 5 mm (The bottom side of the EUT to the Phantom)
 Area scan find secondary maxima within 2dB and with a peak SAR value greater than 0.0012 W/Kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.43, 7.43, 7.43) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.07 mW/g

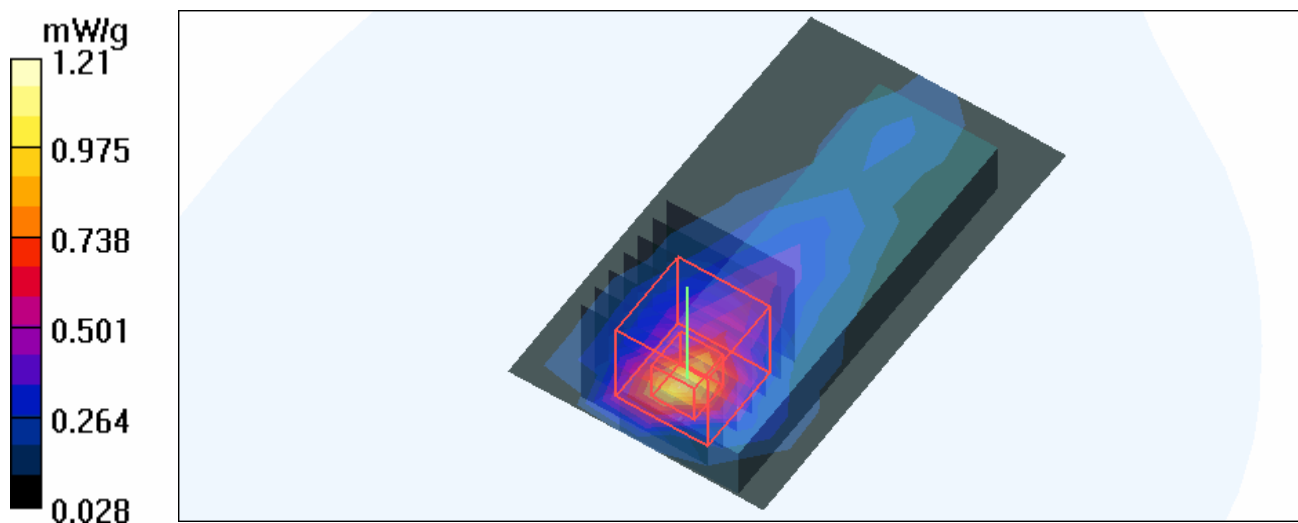
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.1 V/m

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.453 mW/g

Maximum value of SAR (measured) = 1.21 mW/g



Test Laboratory: Advance Data Technology

M15-10M-16Q1_2-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100

Communication System: FCC Wimax ; Frequency: 2501 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2501$ MHz; $\sigma = 2.08$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

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

Area scan find secondary maxima within 2dB and with a peak SAR value greater than 0.0012 W/Kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.43, 7.43, 7.43) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.940 mW/g

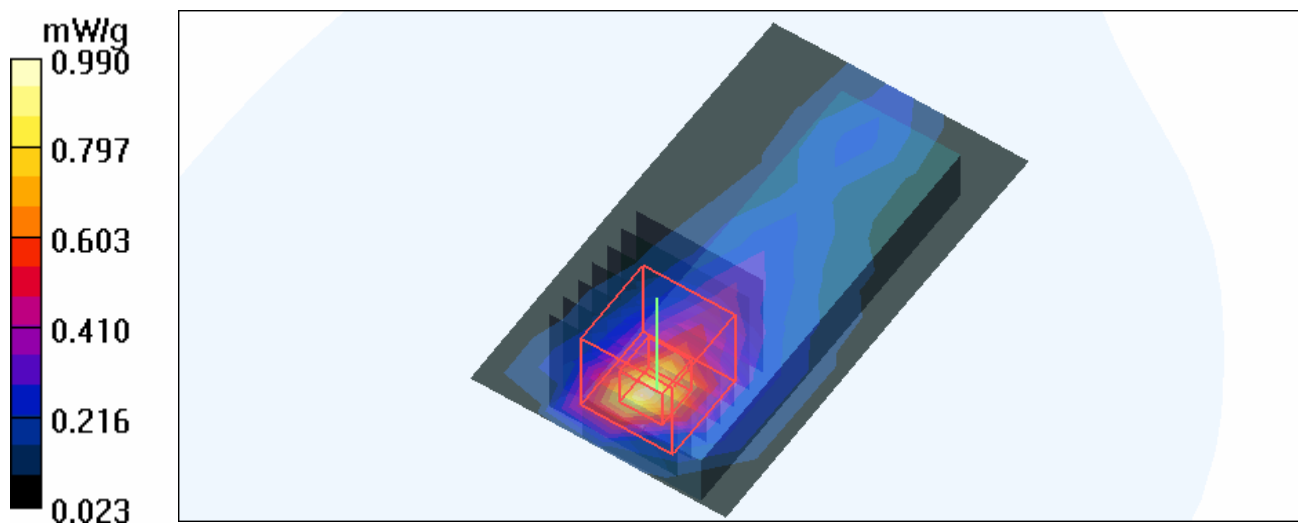
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.5 V/m

Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = **0.845 mW/g**; SAR(10 g) = 0.380 mW/g

Maximum value of SAR (measured) = 0.990 mW/g



Test Laboratory: Advance Data Technology

M16-10M-16Q1_2-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100

Communication System: FCC Wimax ; Frequency: 2501 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2501$ MHz; $\sigma = 2.08$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

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

Area scan find secondary maxima within 2dB and with a peak SAR value greater than 0.0012 W/Kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.43, 7.43, 7.43) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13
- 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 0/Area Scan (5x5x1): Measurement grid: dx=15mm, dy=15mm

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

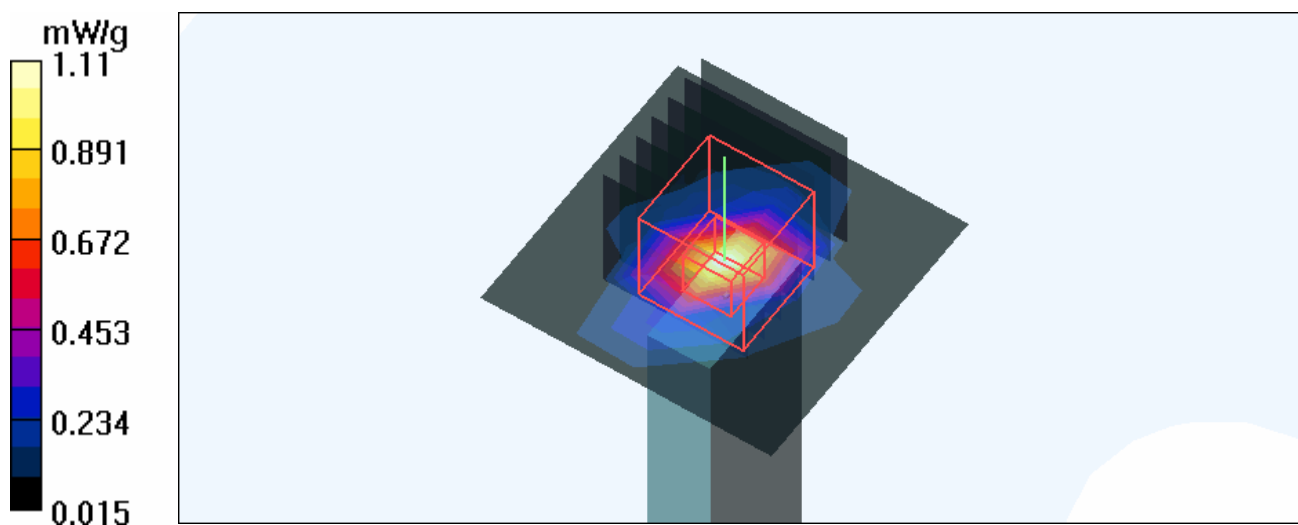
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.3 V/m

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = **0.929 mW/g**; SAR(10 g) = 0.354 mW/g

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



Test Laboratory: Advance Data Technology

System Validation Check-MSL 2600MHz

DUT: Dipole 2600 MHz ; Type: D2600V2 ; Serial: 1003 ; Test Frequency: 2600 MHz

Communication System: CW ; Frequency: 2600 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: MSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 2.17$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³ ; Liquid level : 154 mm
 Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23.5 degrees ; Liquid temp. : 22.3 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.43, 7.43, 7.43) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2008/3/13
- 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) = 17.2 mW/g

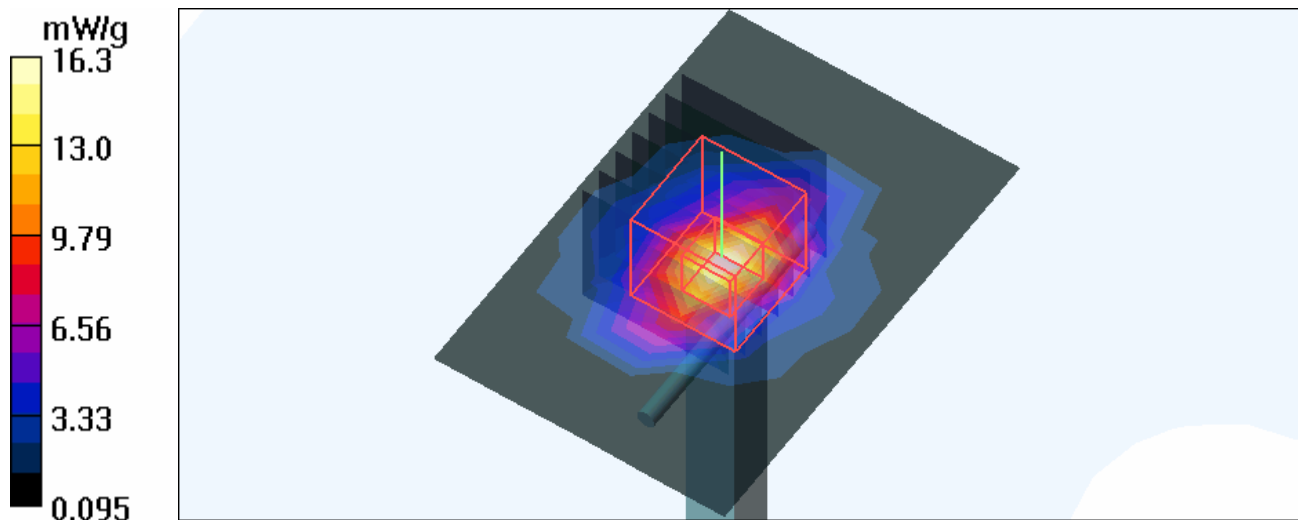
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.5 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 32.2 W/kg

SAR(1 g) = 14.7 mW/g; SAR(10 g) = 6.45 mW/g

Maximum value of SAR (measured) = 16.3 mW/g



Linearity response check



Date/Time: 2008/10/15 09:47:15

Test Laboratory: Advance Data Technology

5M-QPSK_1/2-Ch354 (12.5mW)

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.13$ mho/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.43, 7.43, 7.43) ; Calibrated: 2008/9/30

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

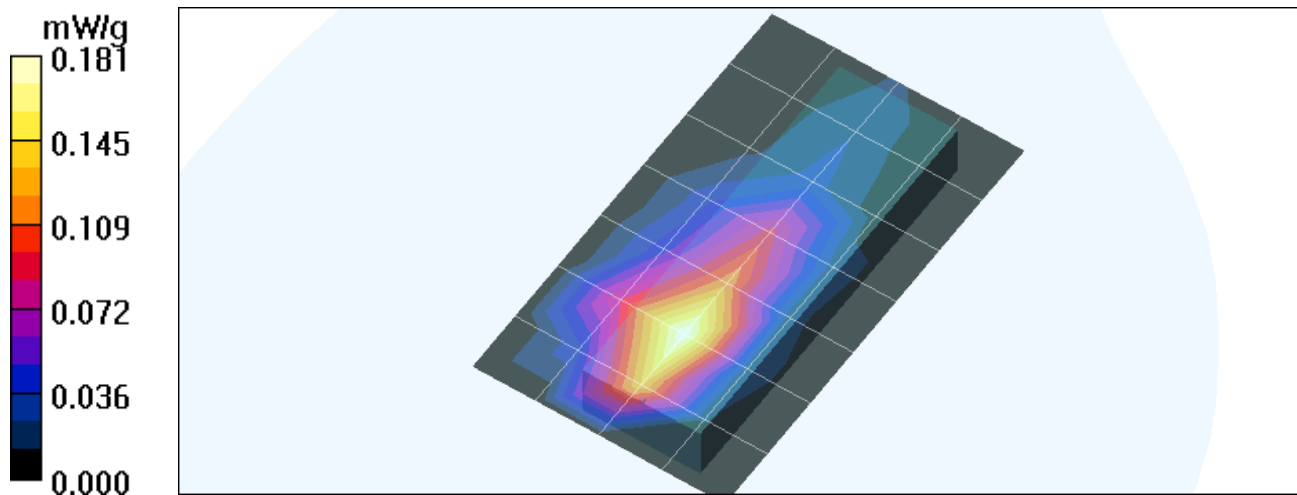
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13

- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.181 mW/g



Linearity response check



Date/Time: 2008/10/15 09:53:43

Test Laboratory: Advance Data Technology

5M-QPSK_1/2-Ch354 (25mW)

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.13$ mho/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.43, 7.43, 7.43) ; Calibrated: 2008/9/30

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

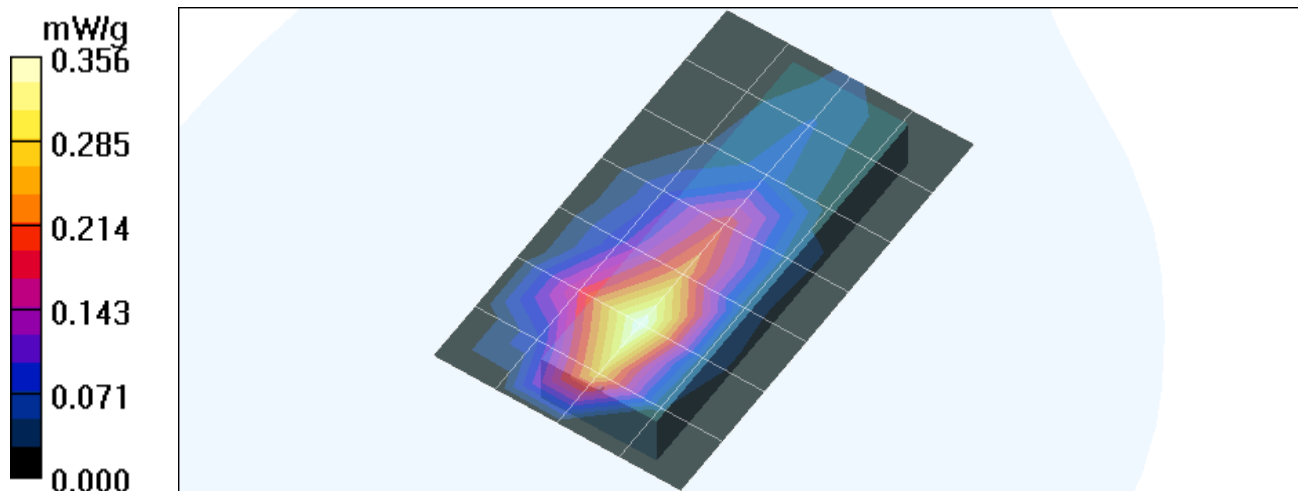
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13

- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

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



Linearity response check



Date/Time: 2008/10/15 10:00:32

Test Laboratory: Advance Data Technology

5M-QPSK_1/2-Ch354 (50mW)

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.13$ mho/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

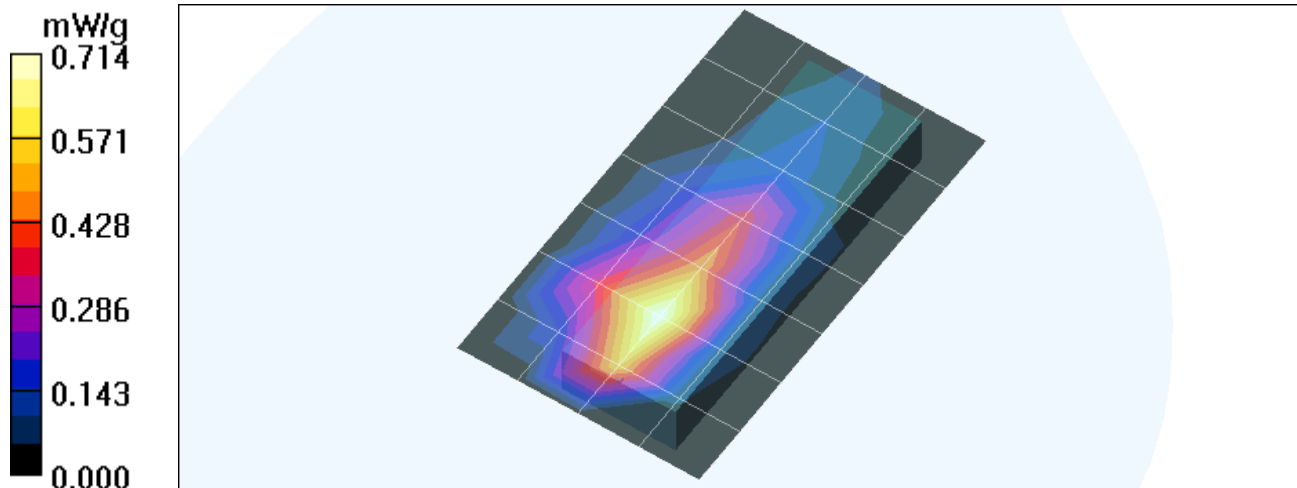
Antenna type : Printed Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.43, 7.43, 7.43) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13
- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

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



Linearity response check



Date/Time: 2008/10/15 10:06:26

Test Laboratory: Advance Data Technology

5M-QPSK_1/2-Ch354 (100mW)

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.13$ mho/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.43, 7.43, 7.43) ; Calibrated: 2008/9/30

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

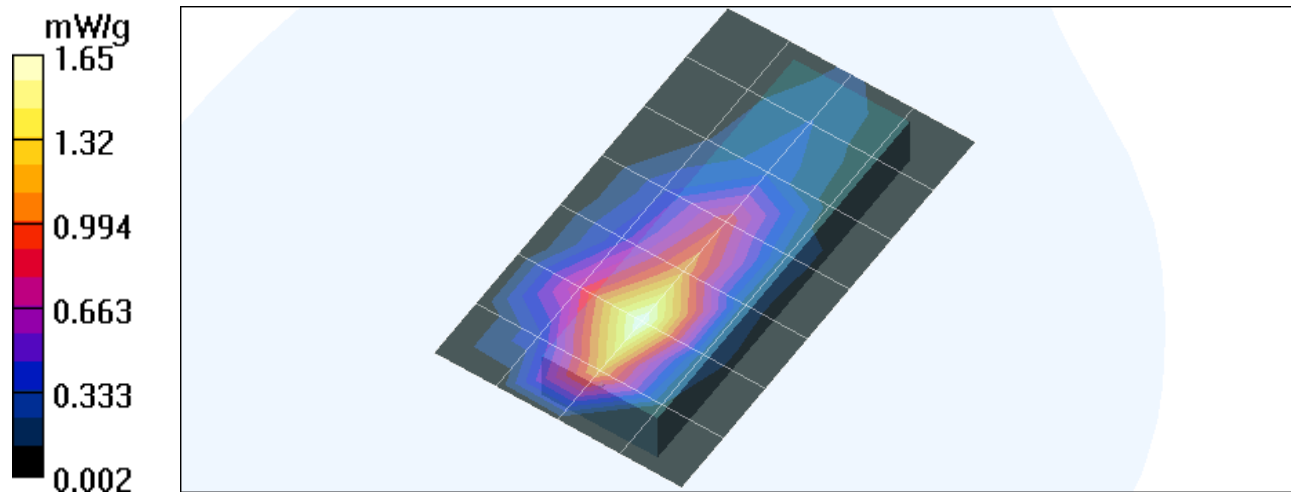
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13

- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.65 mW/g



Linearity response check



Date/Time: 2008/10/15 10:12:37

Test Laboratory: Advance Data Technology

5M-QPSK_1/2-Ch354 (200mW)

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.13$ mho/m; $\epsilon_r = 52.9$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm

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

Antenna type : Printed Antenna ; Air temp. : 22.6 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.43, 7.43, 7.43) ; Calibrated: 2008/9/30

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

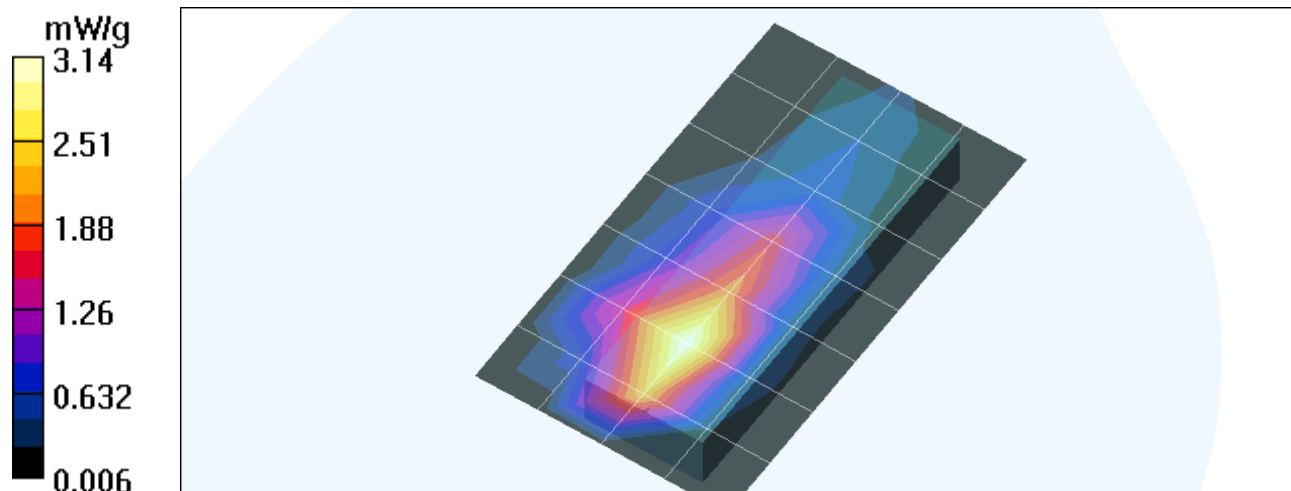
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13

- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.14 mW/g



Linearity response check



Date/Time: 2008/10/15 07:47:36

Test Laboratory: Advance Data Technology

System Validation Check-MSL 2600MHz

DUT: Dipole 2600 MHz ; Type: D2600V2 ; Serial: 1003 ; Test Frequency: 2600 MHz

Communication System: CW ; Frequency: 2600 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 2.14$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 150 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 22.6 degrees ; Liquid temp. : 21.2 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.43, 7.43, 7.43) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13
- 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) = 16.2 mW/g

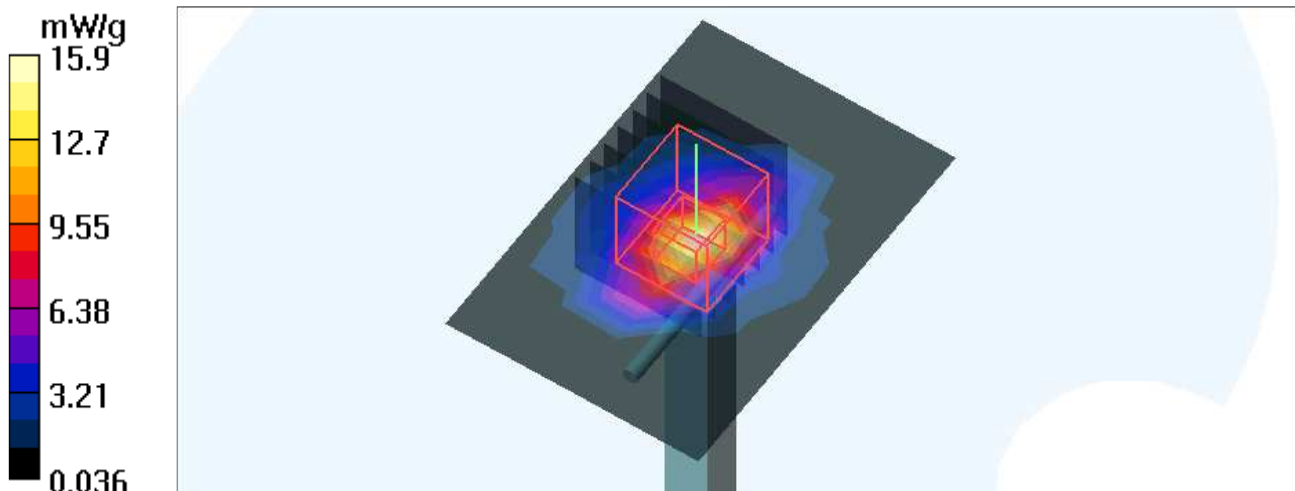
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.1 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 32.7 W/kg

SAR(1 g) = 14.1 mW/g; SAR(10 g) = 6.15 mW/g

Maximum value of SAR (measured) = 15.9 mW/g



Worst case determination



Date/Time: 2008/8/18 09:46:43

Test Laboratory: Advance Data Technology

5M-QPSK_1/2-Ch354

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.12$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.02 mW/g

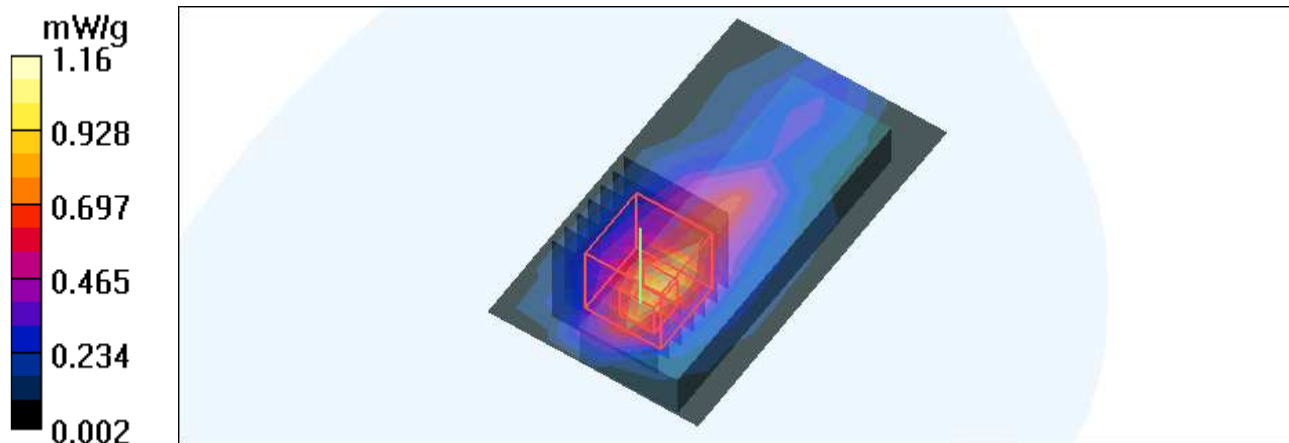
Mid Channel 354/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.4 V/m

Peak SAR (extrapolated) = 2.43 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.472 mW/g

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



Worst case determination



Date/Time: 2008/8/18 10:34:35

Test Laboratory: Advance Data Technology

5M-QPSK_3/4-Ch354

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.12$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.874 mW/g

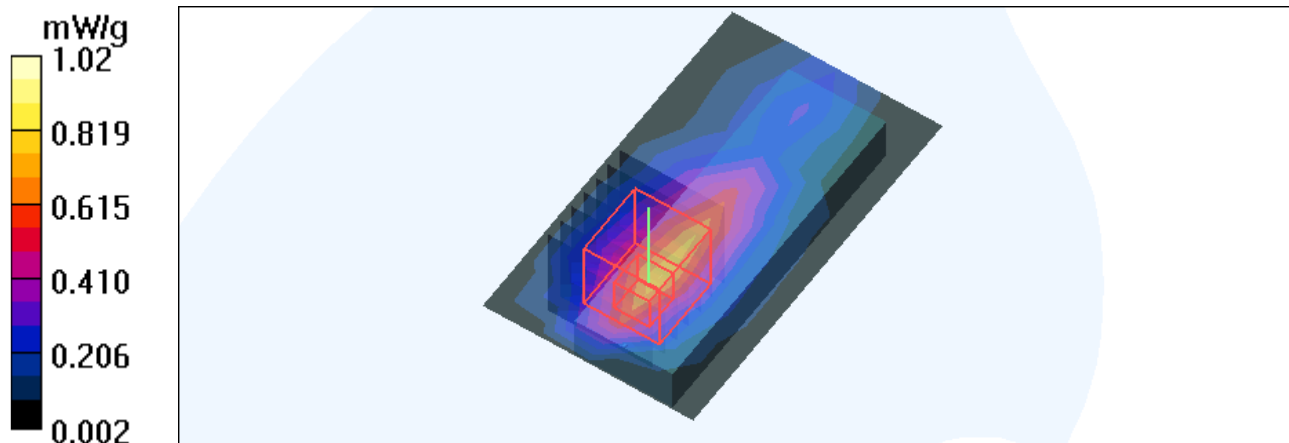
Mid Channel 354/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.2 V/m

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 0.913 mW/g; SAR(10 g) = 0.414 mW/g

Maximum value of SAR (measured) = 1.02 mW/g



Worst case determination



Date/Time: 2008/8/18 11:03:06

Test Laboratory: Advance Data Technology

5M-16Q_1/2-Ch354

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: 16QAM

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.12$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.875 mW/g

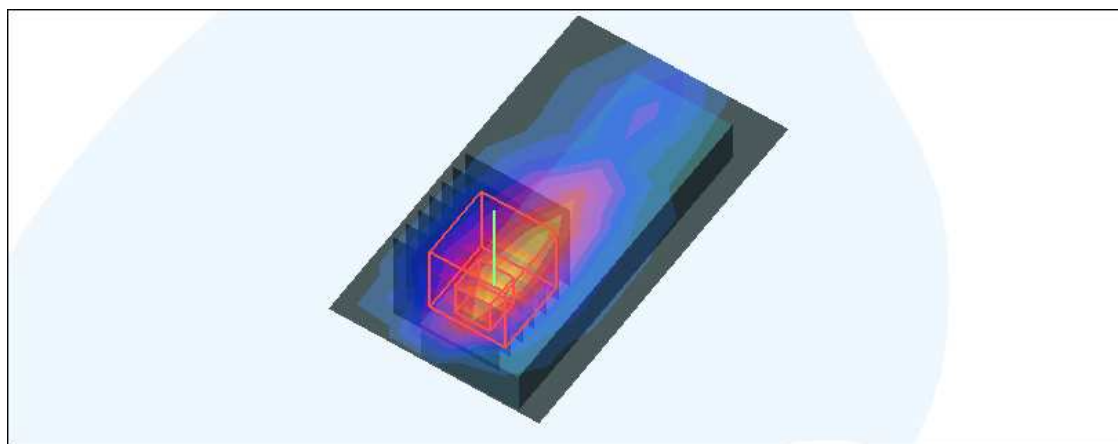
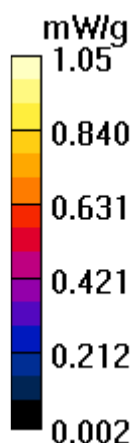
Mid Channel 354/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.7 V/m

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 0.885 mW/g; SAR(10 g) = 0.402 mW/g

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



Worst case determination



Date/Time: 2008/8/18 11:45:31

Test Laboratory: Advance Data Technology

5M-16Q_3/4-Ch354

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: 16QAM

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.12$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 354/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.856 mW/g

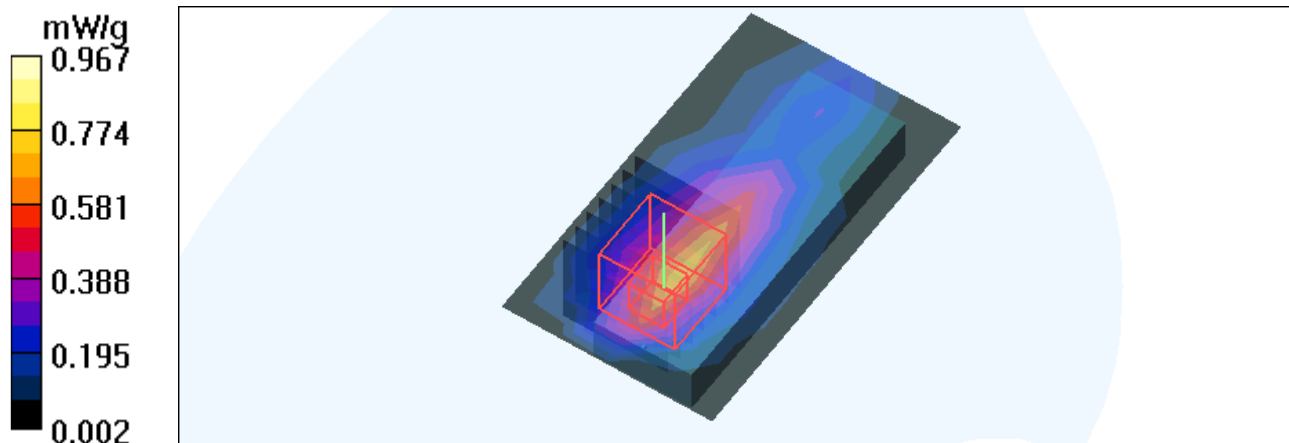
Mid Channel 354/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.9 V/m

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 0.881 mW/g; SAR(10 g) = 0.395 mW/g

Maximum value of SAR (measured) = 0.967 mW/g



Worst case determination



Date/Time: 2008/8/18 14:02:05

Test Laboratory: Advance Data Technology

10M-QPSK_1/2-Ch344

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.12$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 344/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.875 mW/g

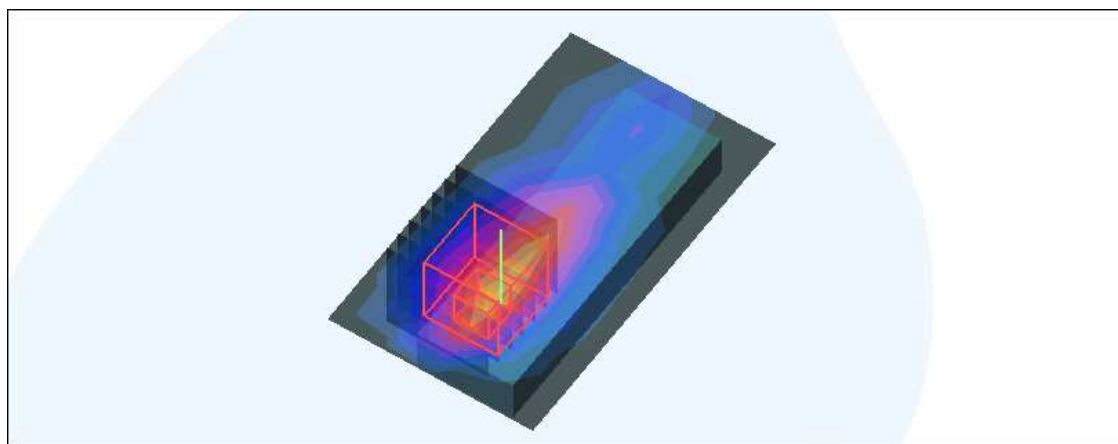
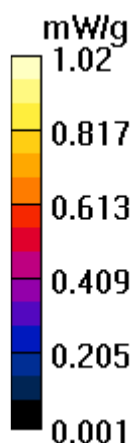
Mid Channel 344/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.4 V/m

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 0.930 mW/g; SAR(10 g) = 0.417 mW/g

Maximum value of SAR (measured) = 1.02 mW/g



Worst case determination



Date/Time: 2008/8/18 14:27:31

Test Laboratory: Advance Data Technology

10M-QPSK_3/4-Ch344

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.12$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 344/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.847 mW/g

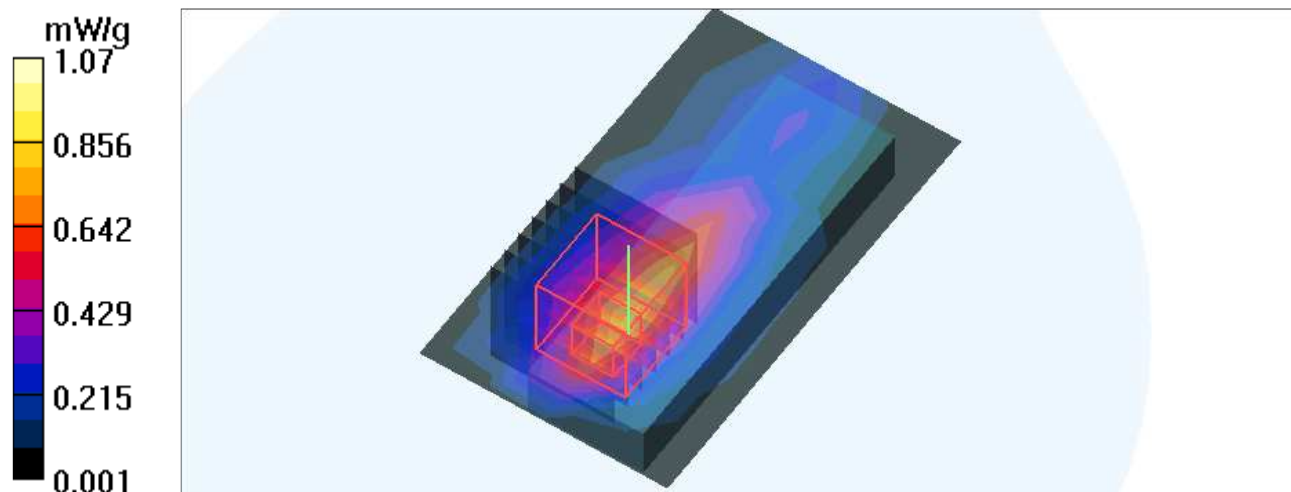
Mid Channel 344/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.8 V/m

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 0.914 mW/g; SAR(10 g) = 0.414 mW/g

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



Worst case determination



Date/Time: 2008/8/18 15:34:06

Test Laboratory: Advance Data Technology

10M-16Q_1/2-Ch344

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: 16QAM

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.12$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 344/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.822 mW/g

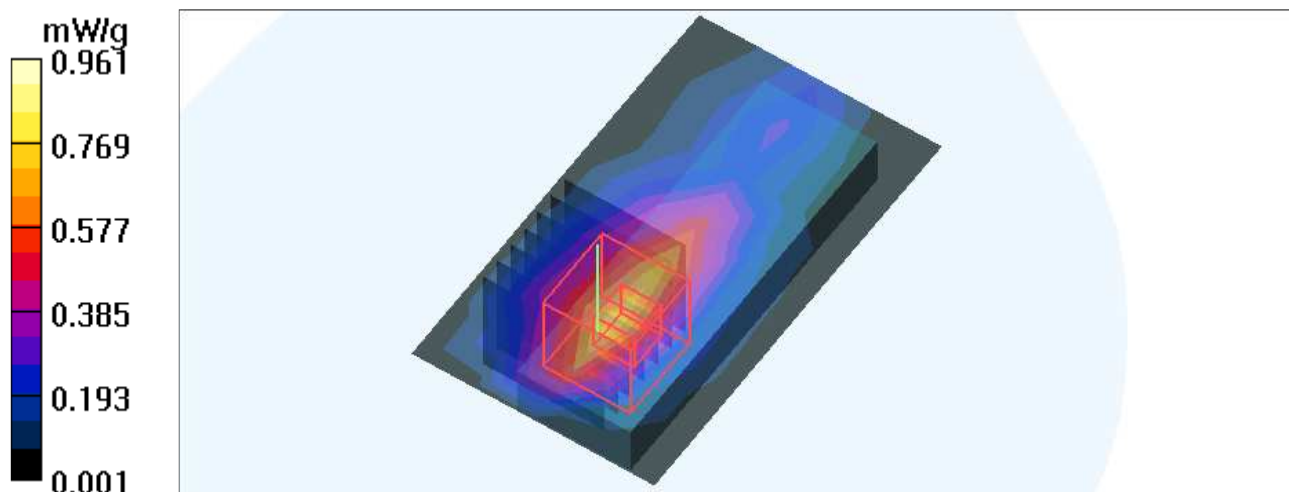
Mid Channel 344/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.1 V/m

Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 0.887 mW/g; SAR(10 g) = 0.246 mW/g

Maximum value of SAR (measured) = 0.961 mW/g



Worst case determination



Date/Time: 2008/8/18 16:49:40

Test Laboratory: Advance Data Technology

10M-16Q_3/4-Ch344

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100 ; Test Frequency: 2587 MHz

Communication System: FCC Wimax ; Frequency: 2587 MHz ; Duty Cycle: 1:4.05 ; Modulation type: 16QAM

Medium: MSL2600 Medium parameters used: $f = 2587$ MHz; $\sigma = 2.12$ mho/m; $\epsilon_r = 52.8$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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 344/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.811 mW/g

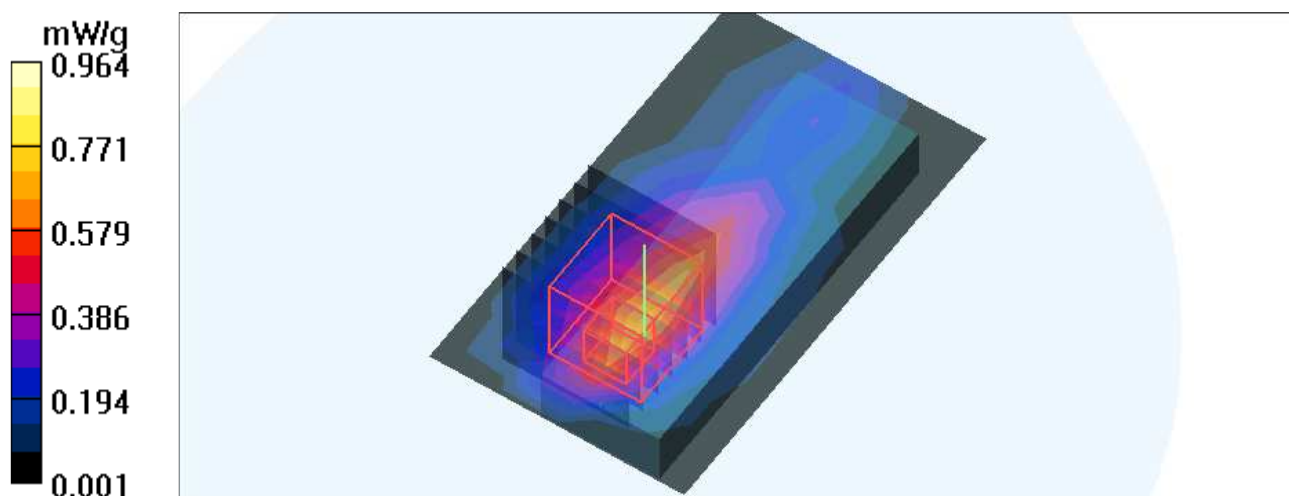
Mid Channel 344/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.3 V/m

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 0.872 mW/g; SAR(10 g) = 0.396 mW/g

Maximum value of SAR (measured) = 0.964 mW/g



Worst case determination



Date/Time: 2008/8/18 08:57:16

Test Laboratory: Advance Data Technology

System Validation Check-MSL 2600MHz

DUT: Dipole 2600 MHz ; Type: D2600V2 ; Serial: 1003 ; Test Frequency: 2600 MHz

Communication System: CW ; Frequency: 2600 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 2.13$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³ ; Liquid level : 151 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 22.6 degrees ; Liquid temp. : 21.4 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(7.09, 7.09, 7.09) ; Calibrated: 2007/8/30
- 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) = 17.3 mW/g

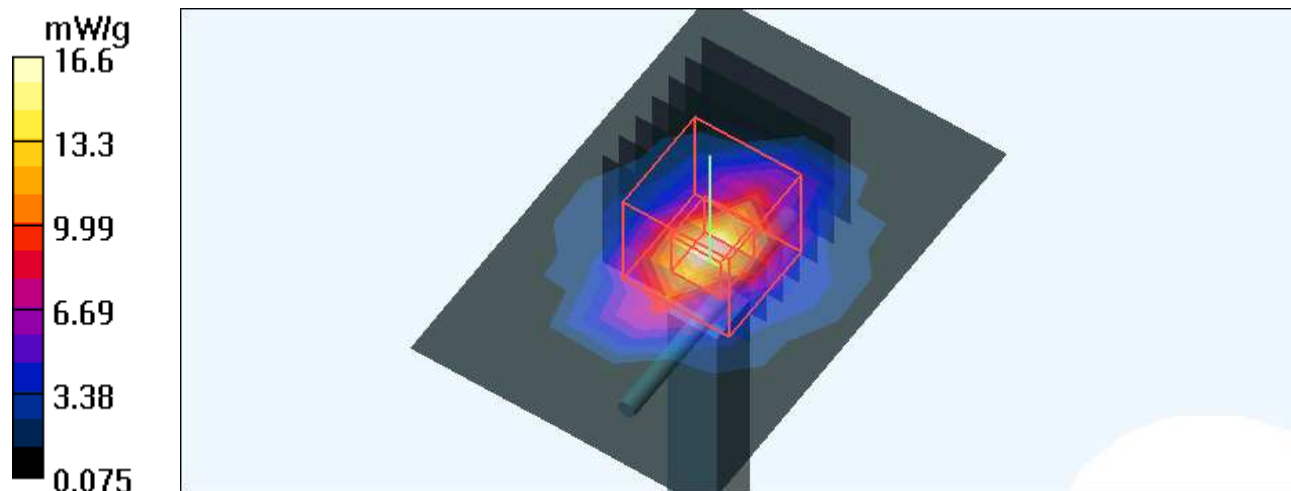
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 90.4 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 30.3 W/kg

SAR(1 g) = 14.4 mW/g; SAR(10 g) = 6.45 mW/g

Maximum value of SAR (measured) = 16.6 mW/g



Compare with different scan resolution



Date/Time: 2008/10/22 16:15:44

Test Laboratory: Advance Data Technology

5M-QPSK1_2-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100

Communication System: FCC Wimax ; Frequency: 2498.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2498.5$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

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

Area scan find secondary maxima within 2dB and with a peak SAR value greater than 0.0012 W/Kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.52, 7.52, 7.52) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.02 mW/g

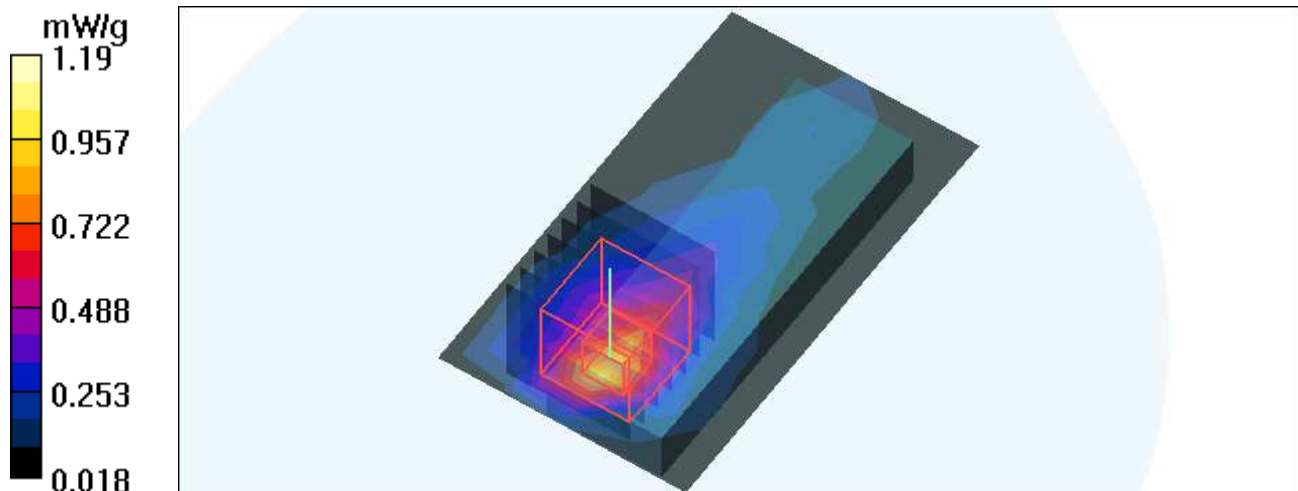
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.1 V/m

Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.438 mW/g

Maximum value of SAR (measured) = 1.19 mW/g



Compare with different scan resolution



Date/Time: 2008/10/22 17:31:38

Test Laboratory: Advance Data Technology

5M-QPSK1_2-Ch0

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100

Communication System: FCC Wimax ; Frequency: 2498.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2498.5$ MHz; $\sigma = 2.06$ mho/m; $\epsilon_r = 53.3$; $\rho = 1000$ kg/m³

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

Area scan find secondary maxima within 2dB and with a peak SAR value greater than 0.0012 W/Kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.52, 7.52, 7.52) ; Calibrated: 2008/9/30

- Sensor-Surface: 2mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13

- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

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

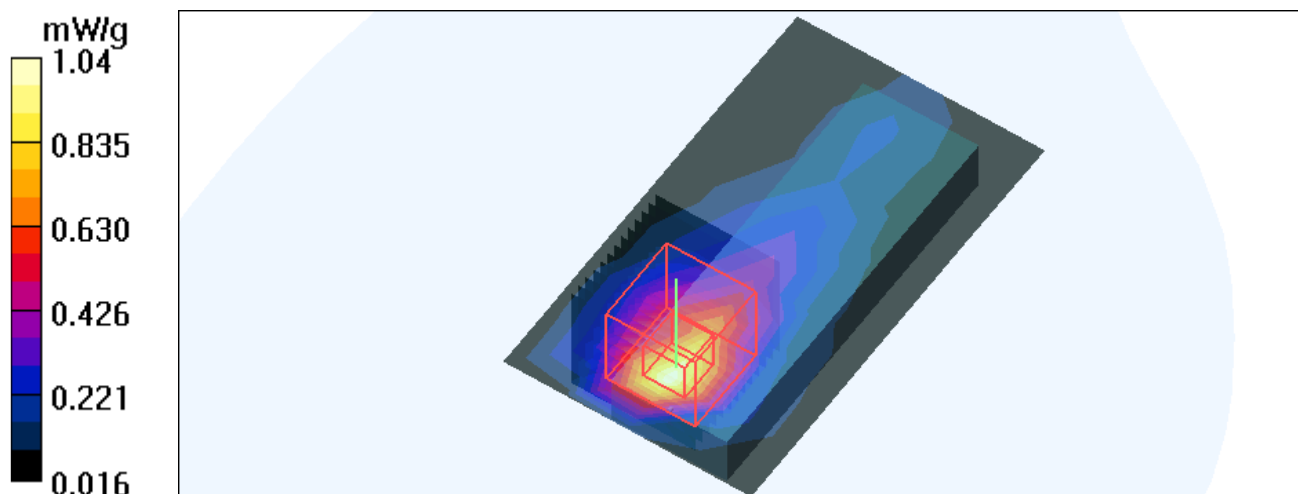
Low Channel 0/Zoom Scan (7x7x7) (13x13x13)/Cube 0: Measurement grid: dx=2.5mm, dy=2.5mm, dz=2.5mm

Reference Value = 22.0 V/m

Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.441 mW/g

Maximum value of SAR (measured) = 1.69 mW/g



Compare with different scan resolution



Date/Time: 2008/10/22 14:08:24

Test Laboratory: Advance Data Technology

System Validation Check-MSL 2600MHz

DUT: Dipole 2600 MHz ; Type: D2600V2 ; Serial: 1003 ; Test Frequency: 2600 MHz

Communication System: CW ; Frequency: 2600 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 2.15$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³ ;
Liquid level : 155 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom)
Air temp. : 22.8 degrees ; Liquid temp. : 21.6 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.43, 7.43, 7.43) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2008/3/13
- 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) = 16.3 mW/g

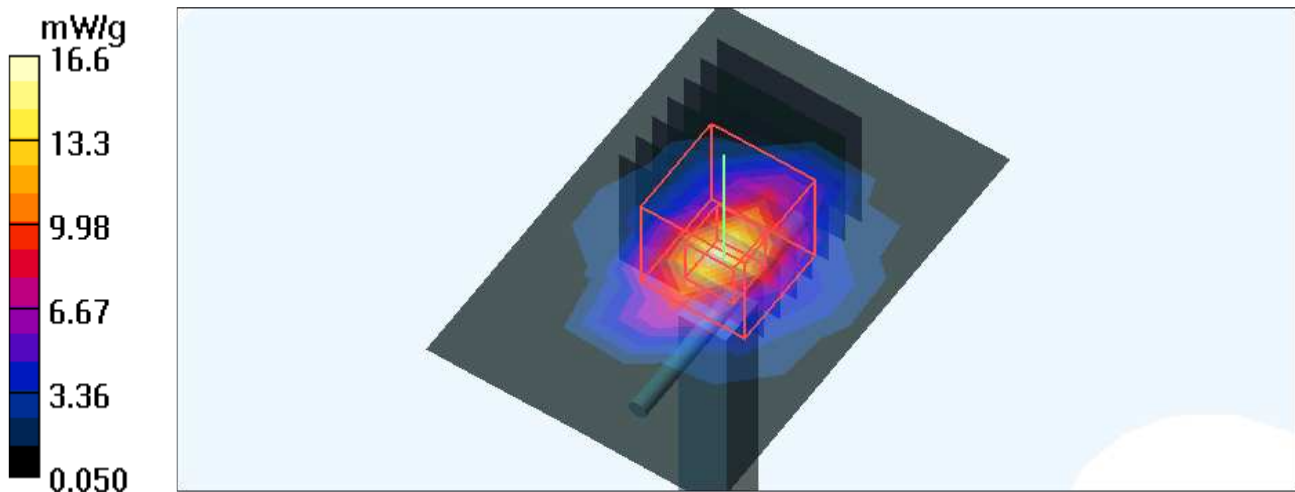
d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.4 V/m; Power Drift = -0.091 dB

Peak SAR (extrapolated) = 33.9 W/kg

SAR(1 g) = 14.4 mW/g; SAR(10 g) = 6.16 mW/g

Maximum value of SAR (measured) = 16.6 mW/g



Concern for swivel adapter



Date/Time: 2008/10/29 18:03:04

Test Laboratory: Advance Data Technology

5M-QPSK1_2-Ch0 (w/o swivel adapter)

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100

Communication System: FCC Wimax ; Frequency: 2498.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2498.5$ MHz; $\sigma = 2.08$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

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

Area scan find secondary maxima within 2dB and with a peak SAR value greater than 0.0012 W/Kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.52, 7.52, 7.52) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

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

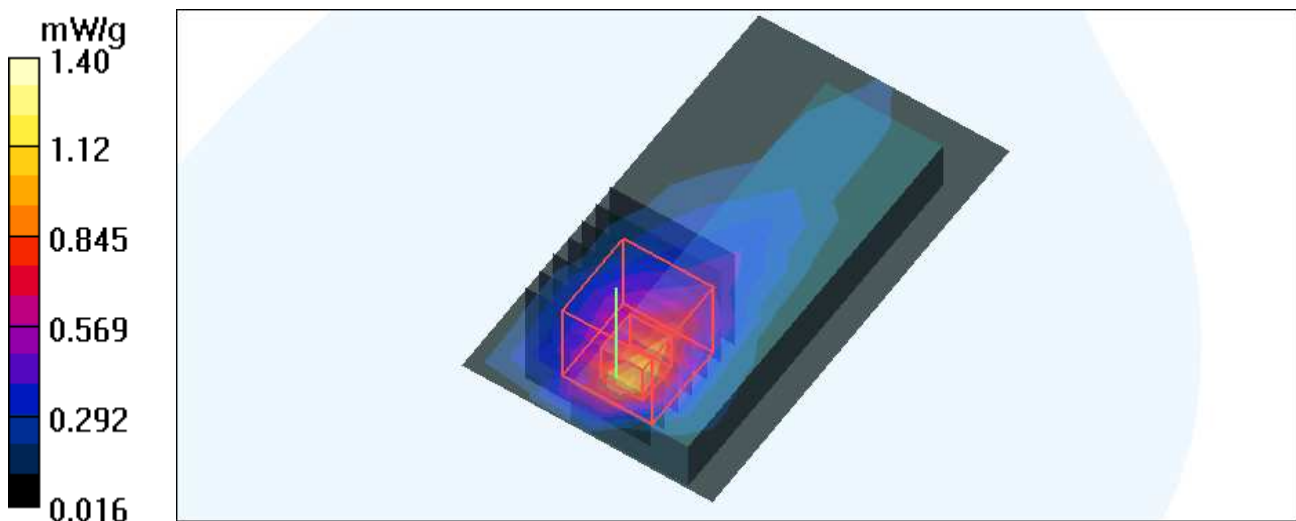
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.0 V/m

Peak SAR (extrapolated) = 2.45 W/kg

SAR(1 g) = **1.18** mW/g; SAR(10 g) = 0.524 mW/g

Maximum value of SAR (measured) = 1.40 mW/g



Concern for swivel adapter



Date/Time: 2008/10/29 18:20:04

Test Laboratory: Advance Data Technology

5M-QPSK1_2-Ch0 (with swivel adapter)

DUT: IEEE802.16e WiMax USB Dongle ; Type: USBw25100

Communication System: FCC Wimax ; Frequency: 2498.5 MHz ; Duty Cycle: 1:4.05 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: $f = 2498.5$ MHz; $\sigma = 2.08$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

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

Area scan find secondary maxima within 2dB and with a peak SAR value greater than 0.0012 W/Kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.52, 7.52, 7.52) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579 ; Calibrated: 2008/3/13
- 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 0/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

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

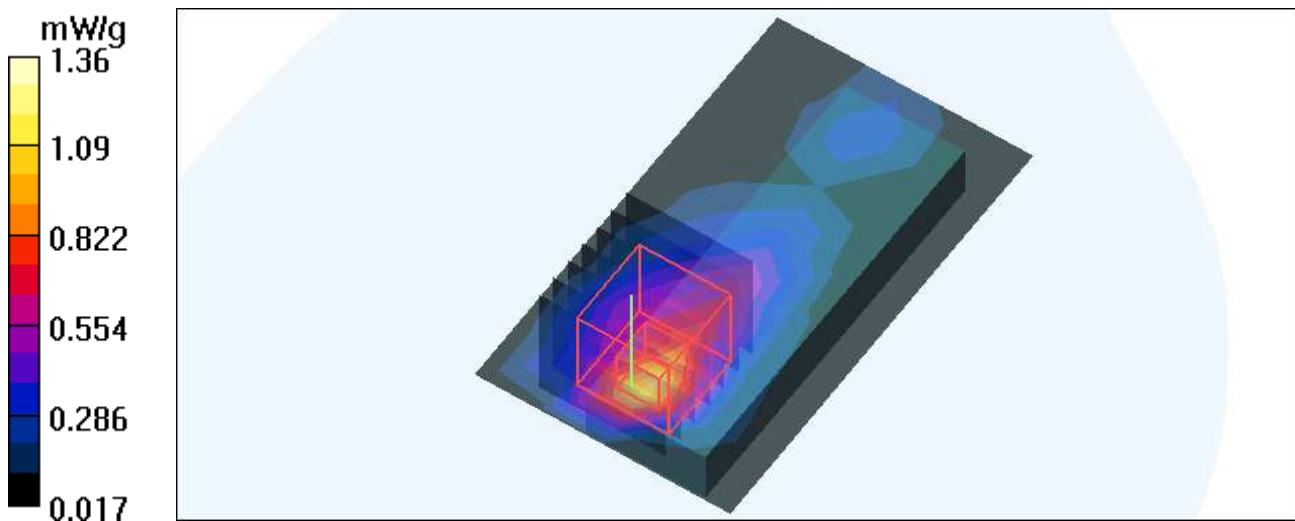
Low Channel 0/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.5 V/m

Peak SAR (extrapolated) = 2.39 W/kg

SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.507 mW/g

Maximum value of SAR (measured) = 1.36 mW/g



Concern for swivel adapter



Date/Time: 2008/10/29 17:15:27

Test Laboratory: Advance Data Technology

System Validation Check-MSL 2600MHz

DUT: Dipole 2600 MHz ; Type: D2600V2 ; Serial: 1003 ; Test Frequency: 2600 MHz

Communication System: CW ; Frequency: 2600 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2600; Medium parameters used: $f = 2600$ MHz; $\sigma = 2.16$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³ ; Liquid level : 152 mm
Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 23.0 degrees ; Liquid temp. : 22.2 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3506 ; ConvF(7.43, 7.43, 7.43) ; Calibrated: 2008/9/30
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn579; Calibrated: 2008/3/13
- 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) = 17.2 mW/g

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

Reference Value = 88.5 V/m; Power Drift = -0.107 dB

Peak SAR (extrapolated) = 32.2 W/kg

SAR(1 g) = 14.7 mW/g; SAR(10 g) = 6.45 mW/g

Maximum value of SAR (measured) = 16.3 mW/g

