# APPENDIX A: TEST DATA

# Liquid Level Photo

**Tissue 2450MHz D=150mm**



**Tissue 2600MHz D=150mm**

Test Laboratory: Bureau Veritas ADT

## M01-5M-Ch354_Top / Ant 1

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: Wimax_2.6GHz ; Frequency: 2587 MHz ; Duty Cycle: 1:3.2 ; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2587 MHz; $\sigma$ = 2.16 mho/m; $\varepsilon_r$ = 53.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The top side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61


**Flat Section 10mm Mid. Ch354/Area Scan (16x16x1):** Measurement grid: dx=8mm, dy=8mm
Maximum value of SAR (measured) = 0.242 mW/g

**Flat Section 10mm Mid. Ch354/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 1.88 V/m; Power Drift = -0.166 dB
Peak SAR (extrapolated) = 0.425 W/kg
**SAR(1 g) = 0.204 mW/g; SAR(10 g) = 0.095 mW/g**
Maximum value of SAR (measured) = 0.268 mW/g
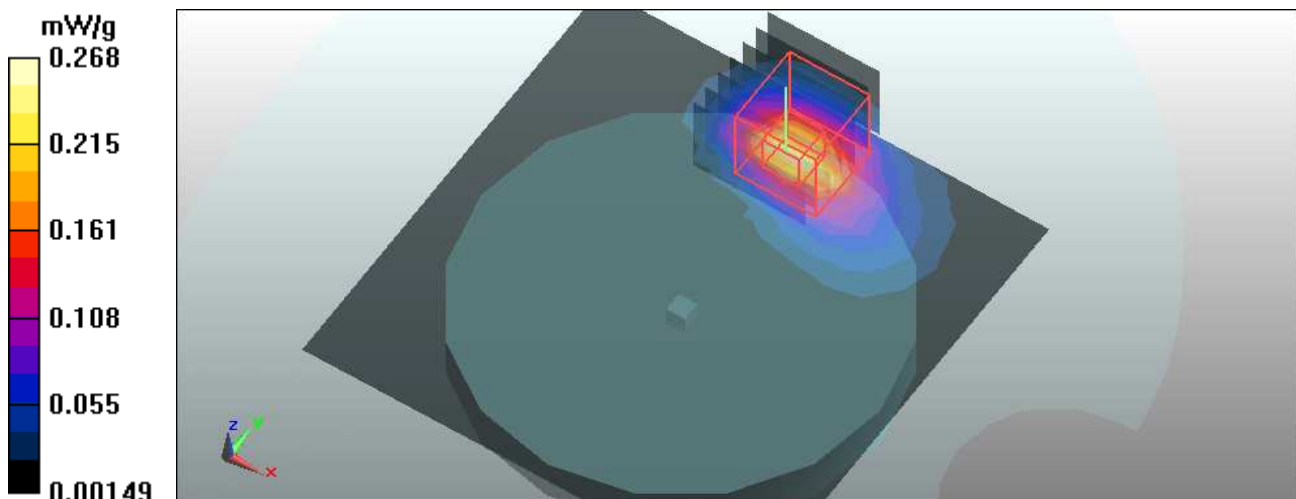
Test Laboratory: Bureau Veritas ADT

## M02-5M-Ch354_Back / Ant 1

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: Wimax_2.6GHz ; Frequency: 2587 MHz ; Duty Cycle: 1:3.2 ; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2587 MHz; $\sigma$ = 2.16 mho/m; $\varepsilon_r$ = 53.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The back side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61
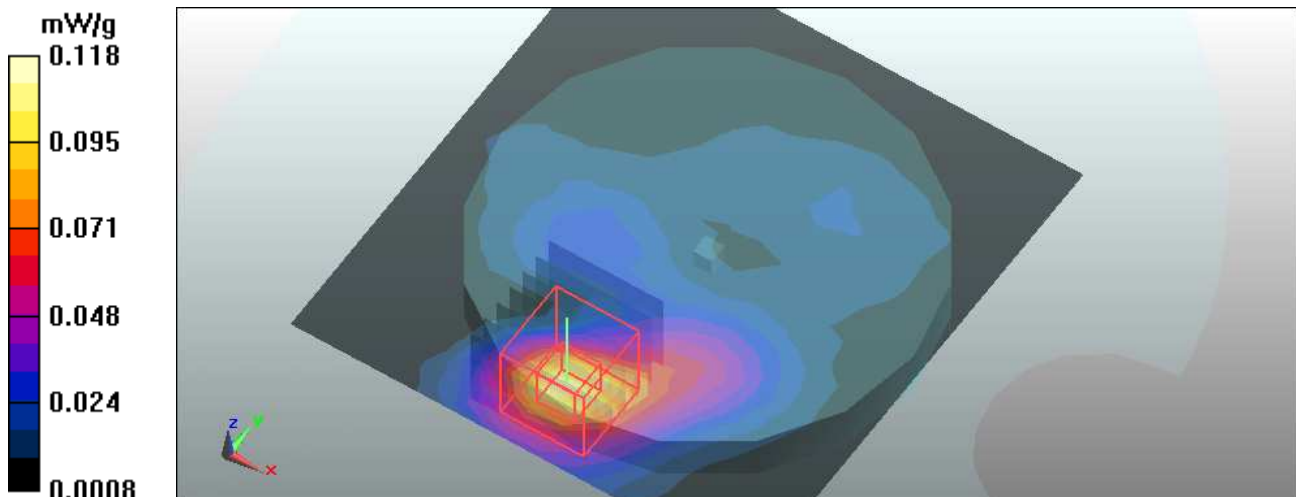
**Flat Section 10mm Mid. Ch354/Area Scan (16x17x1):** Measurement grid: dx=8mm, dy=8mm
Maximum value of SAR (measured) = 0.108 mW/g

**Flat Section 10mm Mid. Ch354/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 1.75 V/m; Power Drift = 0.157 dB
Peak SAR (extrapolated) = 0.182 W/kg
**SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.045 mW/g**
Maximum value of SAR (measured) = 0.118 mW/g

Test Laboratory: Bureau Veritas ADT

## M03-5M-Ch354_edge / Ant 1
**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: Wimax_2.6GHz ; Frequency: 2587 MHz ; Duty Cycle: 1:3.2 ; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2587 MHz; $\sigma$ = 2.16 mho/m; $\varepsilon_r$ = 53.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The edge side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid. Ch354/Area Scan (16x7x1):** Measurement grid: dx=8mm, dy=8mm
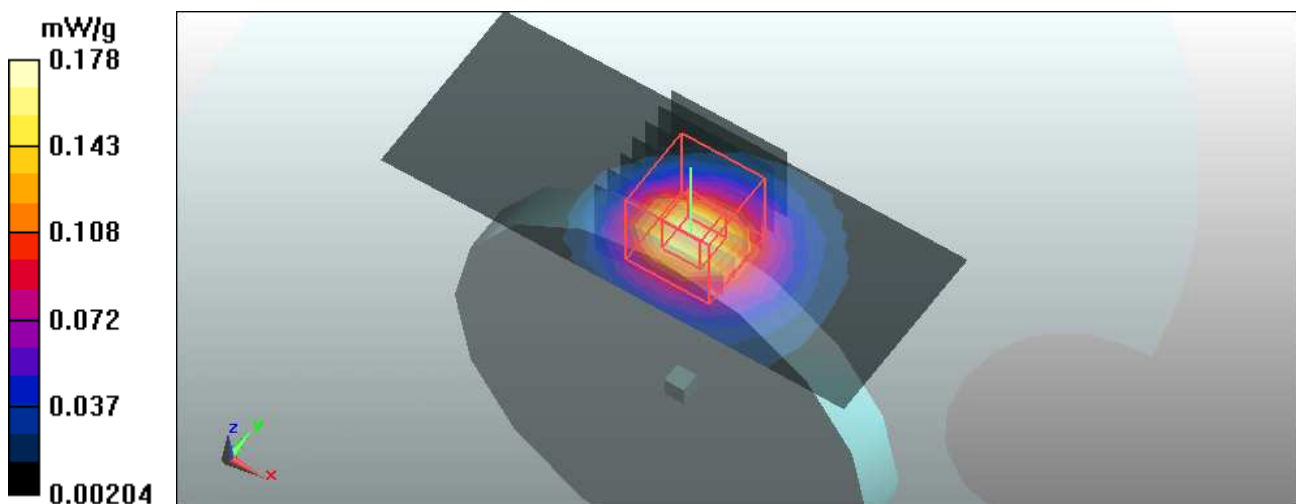Maximum value of SAR (measured) = 0.165 mW/g

**Flat Section 10mm Mid. Ch354/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 8.47 V/m; Power Drift = -0.165 dB
Peak SAR (extrapolated) = 0.277 W/kg
**SAR(1 g) = 0.140 mW/g; SAR(10 g) = 0.069 mW/g**
Maximum value of SAR (measured) = 0.178 mW/g

Test Laboratory: Bureau Veritas ADT

## M04-5M-Ch354_Top / Ant 2

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: Wimax_2.6GHz ; Frequency: 2587 MHz ; Duty Cycle: 1:3.2 ; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2587 MHz; $\sigma$ = 2.16 mho/m; $\varepsilon_r$ = 53.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The top side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid. Ch354/Area Scan (16x17x1):** Measurement grid: dx=8mm, dy=8mm
Maximum value of SAR (measured) = 0.498 mW/g

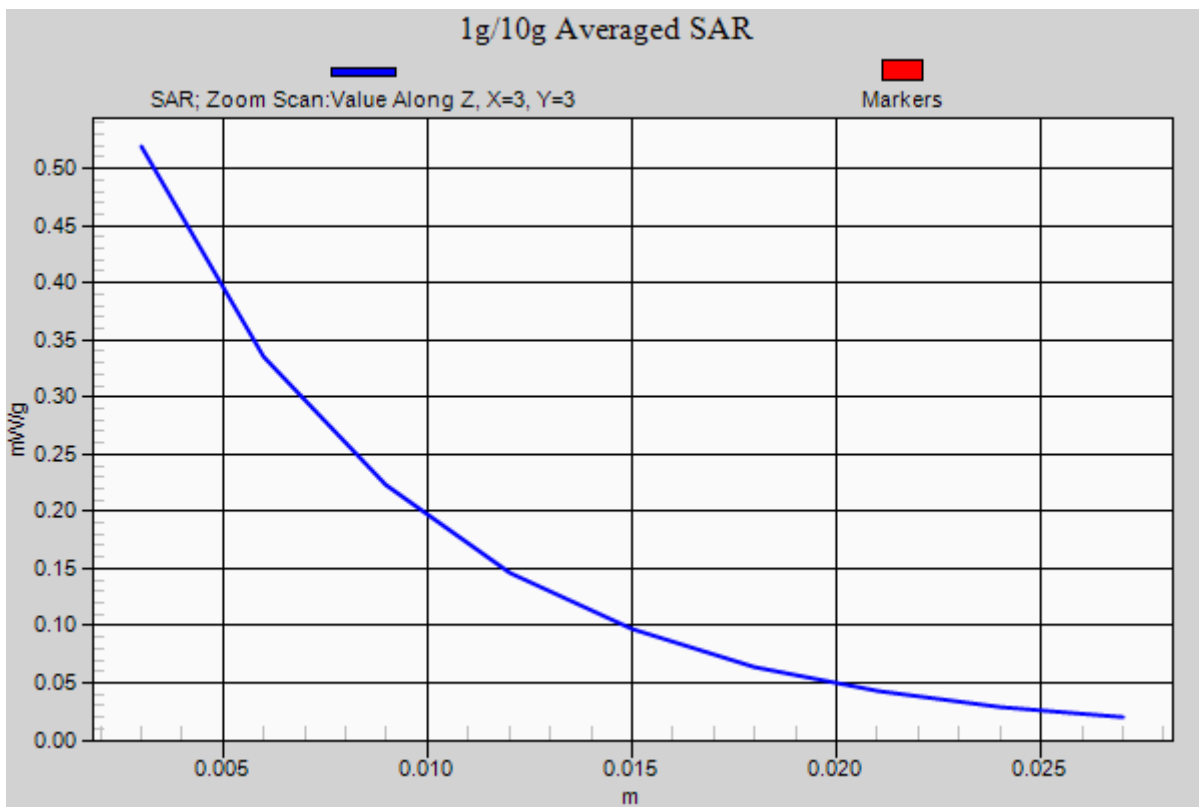**Flat Section 10mm Mid. Ch354/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 5.13 V/m; Power Drift = 0.168 dB
Peak SAR (extrapolated) = 0.848 W/kg
**SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.179 mW/g**
Maximum value of SAR (measured) = 0.519 mW/g

1g/10g Averaged SAR

SAR; Zoom Scan:Value Along Z, X=3, Y=3          Markers
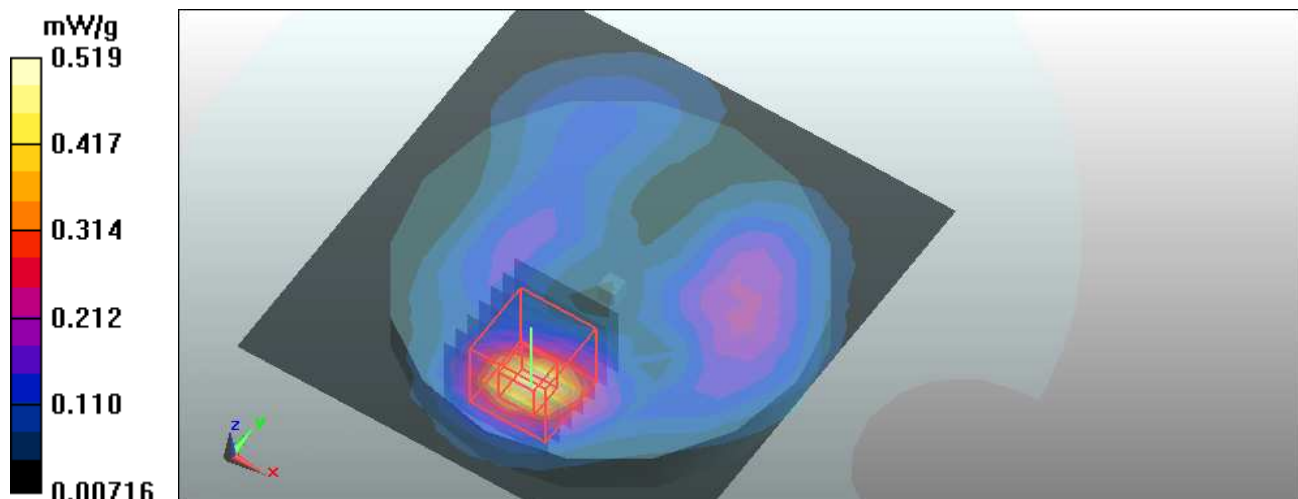
Test Laboratory: Bureau Veritas ADT

## M05-5M-Ch354_Back / Ant 2

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**
Communication System: Wimax_2.6GHz ; Frequency: 2587 MHz ; Duty Cycle: 1:3.2 ; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2587 MHz; σ = 2.16 mho/m; $\varepsilon_r$ = 53.8; ρ = 1000 kg/m³
Phantom section: Flat Section ; Separation distance : 10 mm (The back side of the EUT to the Phantom)
DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid. Ch354/Area Scan (16x17x1):** Measurement grid: dx=8mm, dy=8mm
Maximum value of SAR (measured) = 0.296 mW/g
**Flat Section 10mm Mid. Ch354/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 7 V/m; Power Drift = 0.188 dB
Peak SAR (extrapolated) = 0.503 W/kg
**SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.118 mW/g**
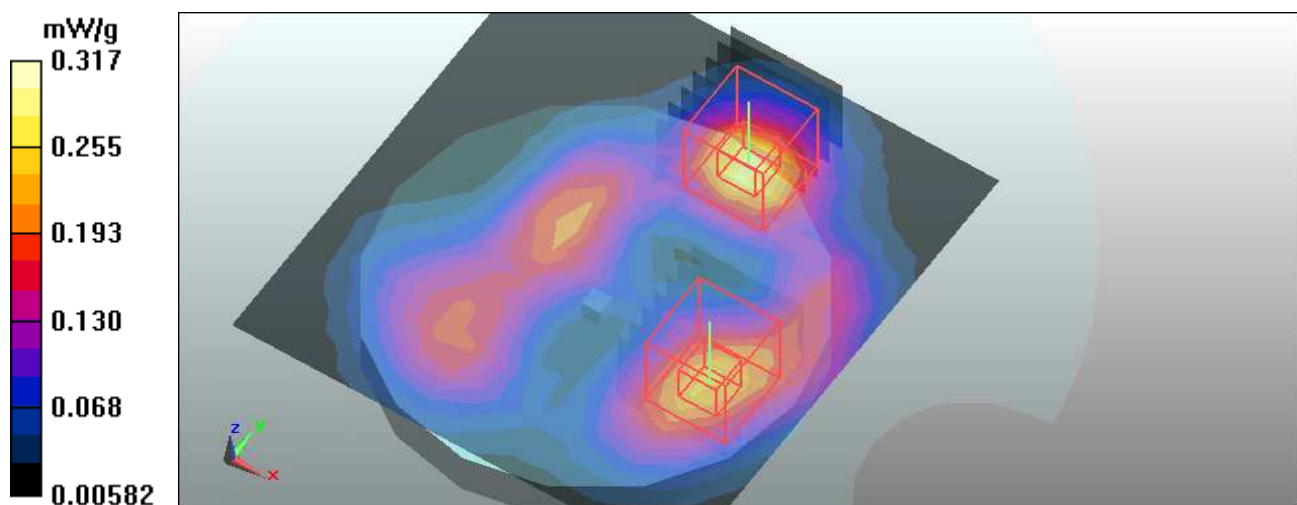Maximum value of SAR (measured) = 0.317 mW/g
**Flat Section 10mm Mid. Ch354/Zoom Scan (7x7x9)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 7 V/m; Power Drift = 0.188 dB
Peak SAR (extrapolated) = 0.354 W/kg
**SAR(1 g) = 0.195 mW/g; SAR(10 g) = 0.109 mW/g**
Maximum value of SAR (measured) = 0.245 mW/g

Test Laboratory: Bureau Veritas ADT

## M06-5M-Ch354_edge / Ant 2
**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: Wimax_2.6GHz ; Frequency: 2587 MHz ; Duty Cycle: 1:3.2 ; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2587 MHz; σ = 2.16 mho/m; $\varepsilon_r$ = 53.8; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The edge side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid. Ch354/Area Scan (16x7x1):** Measurement grid: dx=8mm, dy=8mm
Maximum value of SAR (measured) = 0.443 mW/g

**Flat Section 10mm Mid. Ch354/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 14 V/m; Power Drift = -0.113 dB
Peak SAR (extrapolated) = 0.680 W/kg
**SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.166 mW/g**
Maximum value of SAR (measured) = 0.427 mW/g
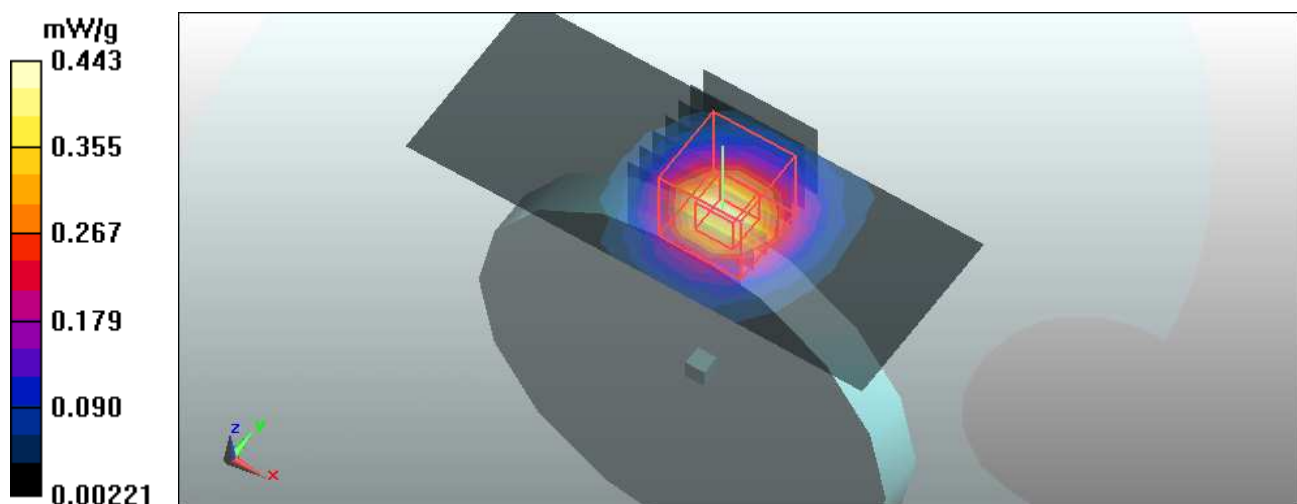
Test Laboratory: Bureau Veritas ADT

## M07-10M-Ch368_Top / Ant 1

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: Wimax_2.6GHz ; Frequency: 2593 MHz ; Duty Cycle: 1:3.2 ; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2593 MHz; $\sigma$ = 2.16 mho/m; $\varepsilon_r$ = 53.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The top side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61
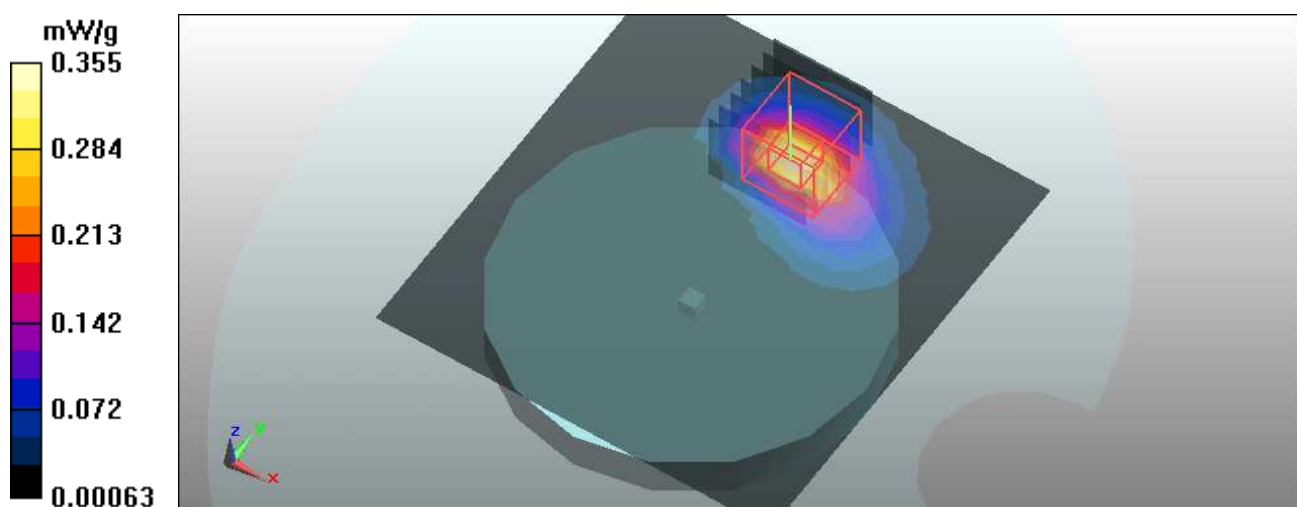
**Flat Section 10mm Mid Ch368/Area Scan (16x17x1):** Measurement grid: dx=8mm, dy=8mm
Maximum value of SAR (measured) = 0.334 mW/g

**Flat Section 10mm Mid Ch368/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 1.75 V/m; Power Drift = 0.105 dB
Peak SAR (extrapolated) = 0.559 W/kg
**SAR(1 g) = 0.270 mW/g; SAR(10 g) = 0.126 mW/g**
Maximum value of SAR (measured) = 0.355 mW/g

Test Laboratory: Bureau Veritas ADT

## M08-10M-Ch368_Back / Ant 1
**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: Wimax_2.6GHz ; Frequency: 2593 MHz ; Duty Cycle: 1:3.2 ; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2593 MHz; σ = 2.16 mho/m; $\varepsilon_r$ = 53.8; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The back side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid Ch368/Area Scan (16x17x1):** Measurement grid: dx=8mm, dy=8mm
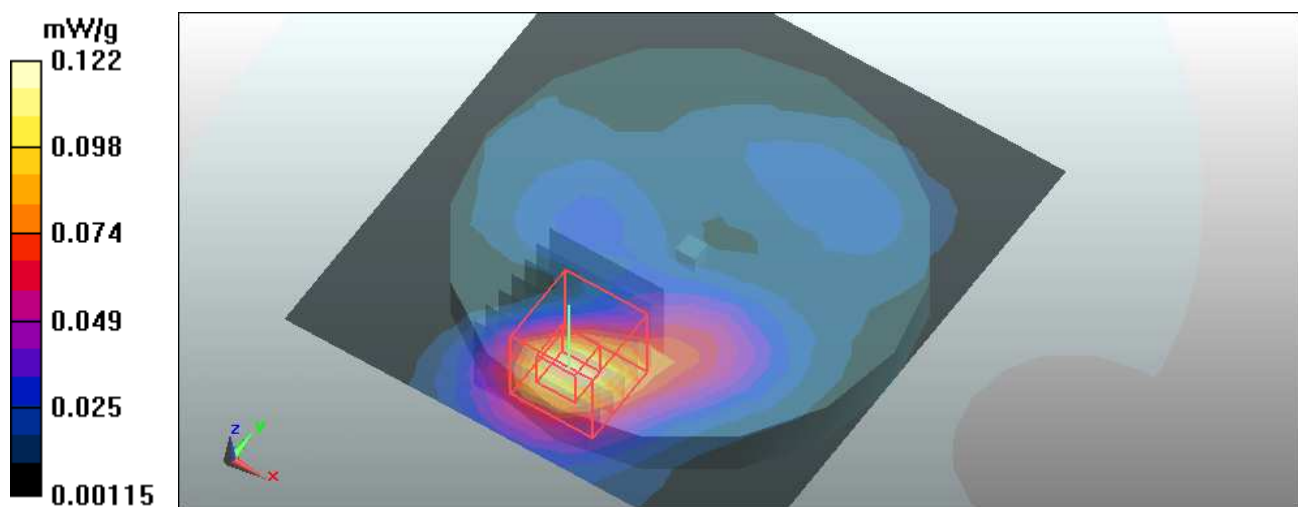Maximum value of SAR (measured) = 0.120 mW/g

**Flat Section 10mm Mid Ch368/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 2.17 V/m; Power Drift = 0.154 dB
Peak SAR (extrapolated) = 0.186 W/kg
**SAR(1 g) = 0.096 mW/g; SAR(10 g) = 0.048 mW/g**
Maximum value of SAR (measured) = 0.122 mW/g

Test Laboratory: Bureau Veritas ADT

## M09-10M-Ch368_edge / Ant 1
**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: Wimax_2.6GHz ; Frequency: 2593 MHz ; Duty Cycle: 1:3.2 ; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2593 MHz; σ = 2.16 mho/m; $\varepsilon_r$ = 53.8; ρ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The edge side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid. Ch368/Area Scan (16x7x1):** Measurement grid: dx=8mm, dy=8mm
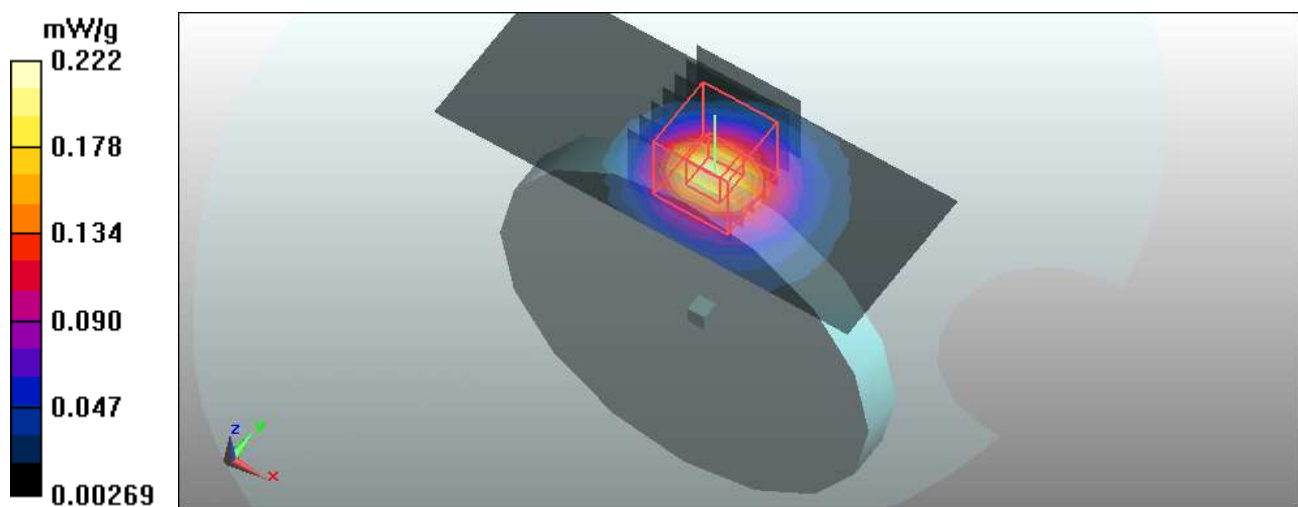Maximum value of SAR (measured) = 0.214 mW/g

**Flat Section 10mm Mid. Ch368/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 9.68 V/m; Power Drift = -0.113 dB
Peak SAR (extrapolated) = 0.342 W/kg
**SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.085 mW/g**
Maximum value of SAR (measured) = 0.222 mW/g

Test Laboratory: Bureau Veritas ADT

## M10-10M-Ch368_Top / Ant 2

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: Wimax_2.6GHz ; Frequency: 2593 MHz ; Duty Cycle: 1:3.2 ; Modulation type: QPSK
Medium: MSL2600 Medium parameters used: f = 2593 MHz; $\sigma$ = 2.16 mho/m; $\varepsilon_r$ = 53.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The top side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid Ch368/Area Scan (16x17x1):** Measurement grid: dx=8mm, dy=8mm
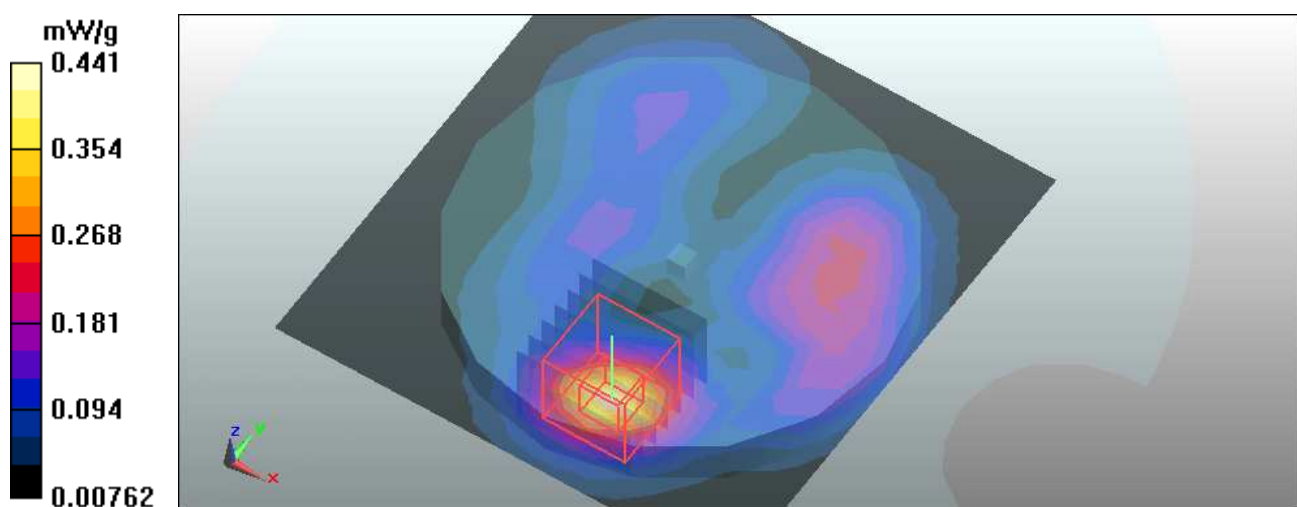Maximum value of SAR (measured) = 0.440 mW/g

**Flat Section 10mm Mid Ch368/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 6.19 V/m; Power Drift = -0.140 dB
Peak SAR (extrapolated) = 0.703 W/kg
**SAR(1 g) = 0.337 mW/g; SAR(10 g) = 0.158 mW/g**
Maximum value of SAR (measured) = 0.441 mW/g

Test Laboratory: Bureau Veritas ADT

## M11-10M-Ch368_Back / Ant 2

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: Wimax_2.6GHz ; Frequency: 2593 MHz ; Duty Cycle: 1:3.2 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: f = 2593 MHz; $\sigma$ = 2.16 mho/m; $\varepsilon_r$ = 53.8; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section ; Separation distance : 10 mm (The back side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid Ch368/Area Scan (16x17x1):** Measurement grid: dx=8mm, dy=8mm
Maximum value of SAR (measured) = 0.331 mW/g
**Flat Section 10mm Mid Ch368/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 6.81 V/m; Power Drift = 0.121 dB
Peak SAR (extrapolated) = 0.532 W/kg
**SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.127 mW/g**
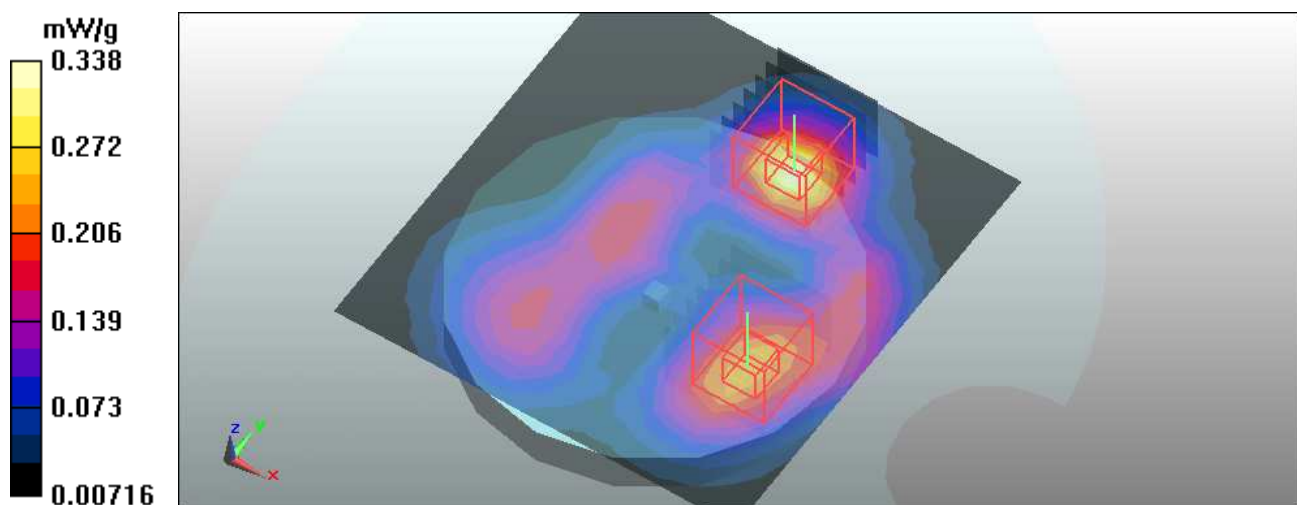Maximum value of SAR (measured) = 0.338 mW/g
**Flat Section 10mm Mid Ch368/Zoom Scan (7x7x9)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 6.81 V/m; Power Drift = 0.121 dB
Peak SAR (extrapolated) = 0.378 W/kg
**SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.116 mW/g**
Maximum value of SAR (measured) = 0.254 mW/g



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Test Laboratory: Bureau Veritas ADT

## M12-10M-Ch368_edge / Ant 2

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: Wimax_2.6GHz ; Frequency: 2593 MHz ; Duty Cycle: 1:3.2 ; Modulation type: QPSK

Medium: MSL2600 Medium parameters used: f = 2593 MHz; $\sigma$ = 2.16 mho/m; $\varepsilon_r$ = 53.8; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section ; Separation distance : 10 mm (The edge side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid. Ch368/Area Scan (16x7x1):** Measurement grid: dx=8mm, dy=8mm

Maximum value of SAR (measured) = 0.476 mW/g

**Flat Section 10mm Mid. Ch368/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 14.3 V/m; Power Drift = -0.153 dB

Peak SAR (extrapolated) = 0.770 W/kg

**SAR(1 g) = 0.392 mW/g; SAR(10 g) = 0.196 mW/g**

Maximum value of SAR (measured) = 0.499 mW/g
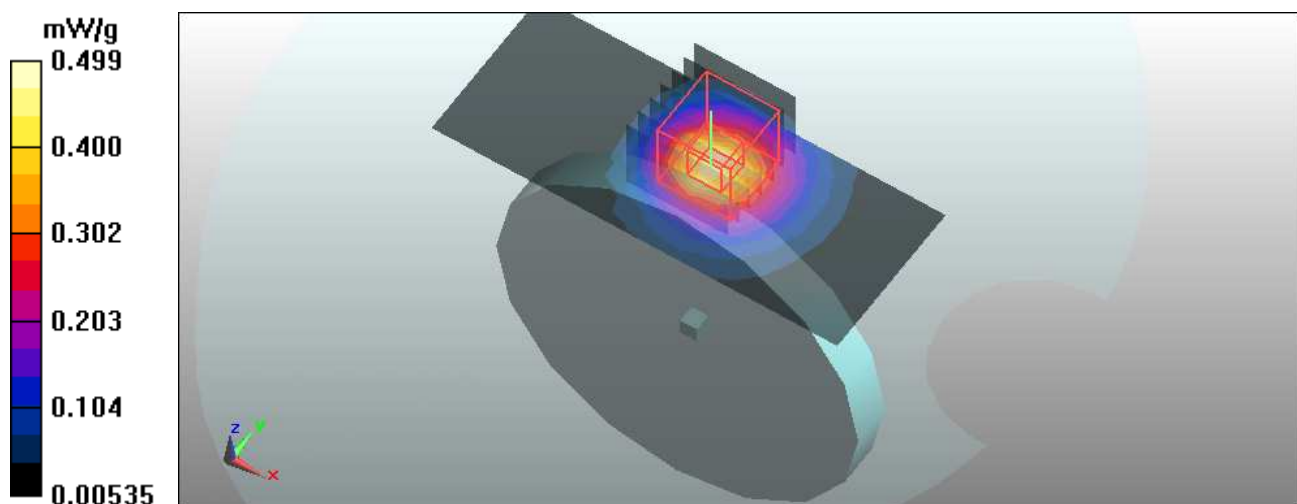
Test Laboratory: Bureau Veritas ADT

## M13-11b-Ch6_Top / Ant 1

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK

Medium: MSL2450 Medium parameters used: f = 2437 MHz; σ = 1.98 mho/m; $\varepsilon_r$ = 54.8; ρ = 1000 kg/m$^3$

Phantom section: Flat Section ; Separation distance : 10 mm (The top side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.91, 7.91, 7.91); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid. Ch6/Area Scan (16x17x1):** Measurement grid: dx=8mm, dy=8mm

Maximum value of SAR (measured) = 0.039 mW/g

**Flat Section 10mm Mid. Ch6/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 2.27 V/m; Power Drift = -0.127 dB

Peak SAR (extrapolated) = 0.051 W/kg

**SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.017 mW/g**
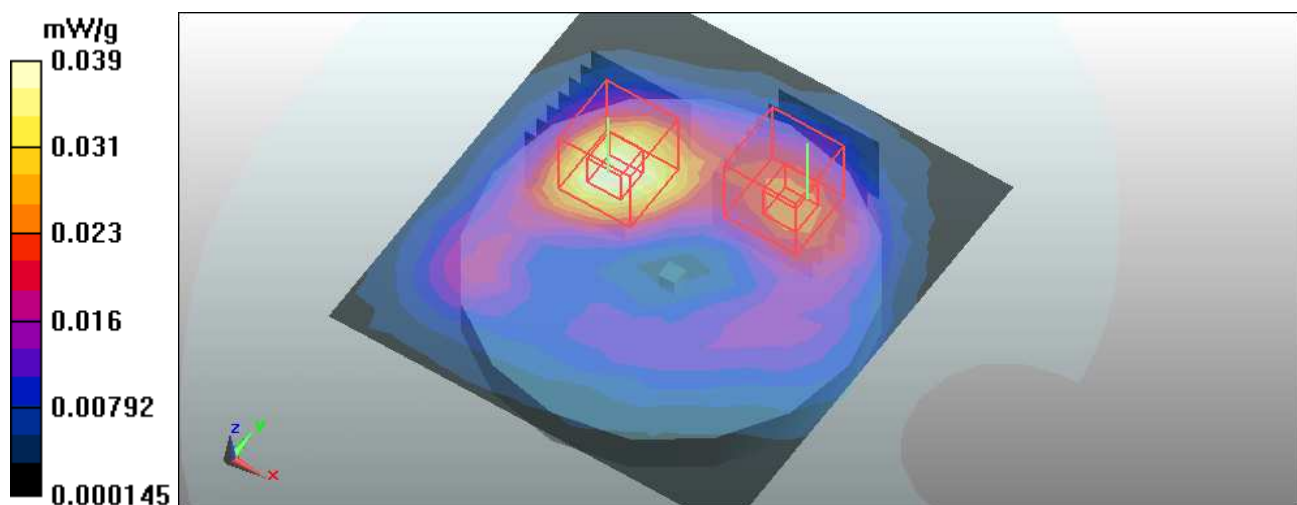
Maximum value of SAR (measured) = 0.036 mW/g

**Flat Section 10mm Mid. Ch6/Zoom Scan (7x7x9)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 2.27 V/m; Power Drift = -0.127 dB

Peak SAR (extrapolated) = 0.025 W/kg

**SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.010 mW/g**

Maximum value of SAR (measured) = 0.020 mW/g

Test Laboratory: Bureau Veritas ADT

# M14-11b-Ch6_Back / Ant 1

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
Medium: MSL2450 Medium parameters used: f = 2437 MHz; $\sigma$ = 1.98 mho/m; $\varepsilon_r$ = 54.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The back side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.91, 7.91, 7.91); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid. Ch6/Area Scan (16x17x1):** Measurement grid: dx=8mm, dy=8mm
Maximum value of SAR (measured) = 0.055 mW/g

**Flat Section 10mm Mid. Ch6/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm
Reference Value = 0.855 V/m; Power Drift = 0.168 dB
Peak SAR (extrapolated) = 0.077 W/kg
**SAR(1 g) = 0.044 mW/g; SAR(10 g) = 0.025 mW/g**
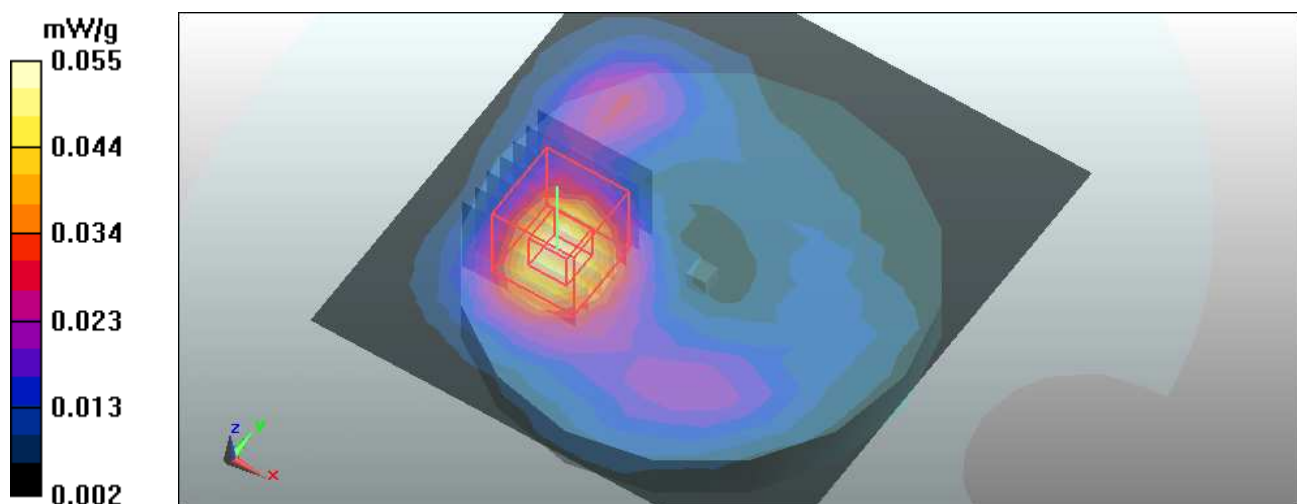
Test Laboratory: Bureau Veritas ADT

## M15-11b-Ch6_edge / Ant 1

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
Medium: MSL2450 Medium parameters used: f = 2437 MHz; $\sigma$ = 1.98 mho/m; $\varepsilon_r$ = 54.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The edge side of the EUT to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.91, 7.91, 7.91); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61


**Flat Section 10mm Mid. Ch6/Area Scan (16x7x1):** Measurement grid: dx=8mm, dy=8mm
Maximum value of SAR (measured) = 0.032 mW/g

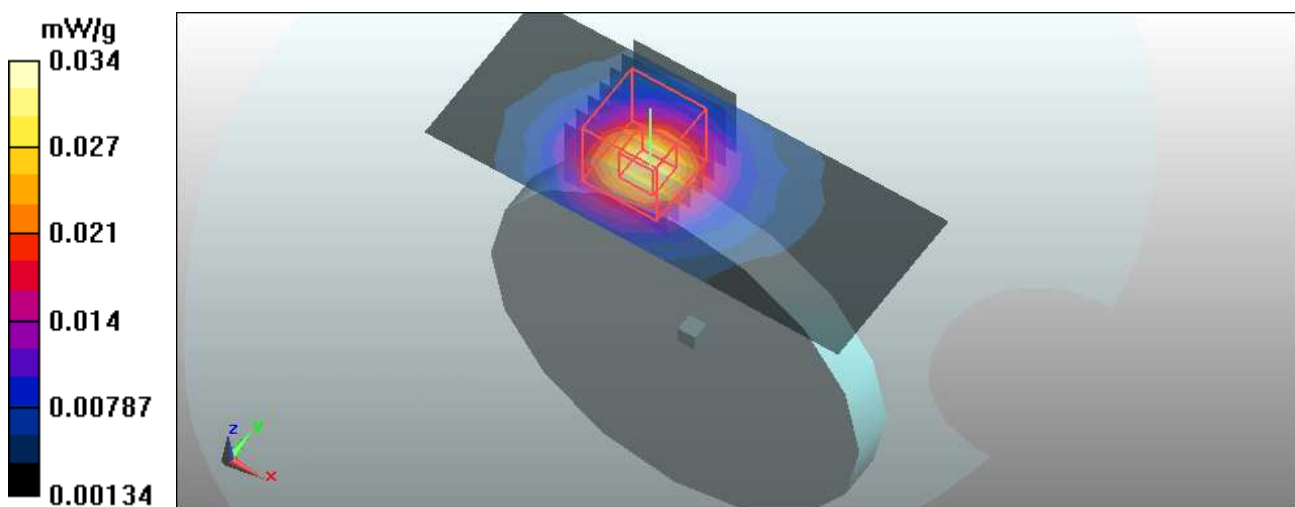**Flat Section 10mm Mid. Ch6/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm,
dy=5mm, dz=3mm
Reference Value = 3.65 V/m; Power Drift = -0.187 dB
Peak SAR (extrapolated) = 0.049 W/kg
**SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.014 mW/g**
Maximum value of SAR (measured) = 0.034 mW/g

Test Laboratory: Bureau Veritas ADT

## M16-11b-Ch6_top / Ant 2

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK

Medium: MSL2450 Medium parameters used: f = 2437 MHz; $\sigma$ = 1.98 mho/m; $\varepsilon_r$ = 54.8; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section ; Separation distance : 10 mm (The top side of the EUT   to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.91, 7.91, 7.91); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid. Ch6/Area Scan (16x17x1):** Measurement grid: dx=8mm, dy=8mm

Maximum value of SAR (measured) = 0.036 mW/g

**Flat Section 10mm Mid. Ch6/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 1.98 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 0.056 W/kg

**SAR(1 g) = <mark>0.031</mark> mW/g; SAR(10 g) = 0.017 mW/g**

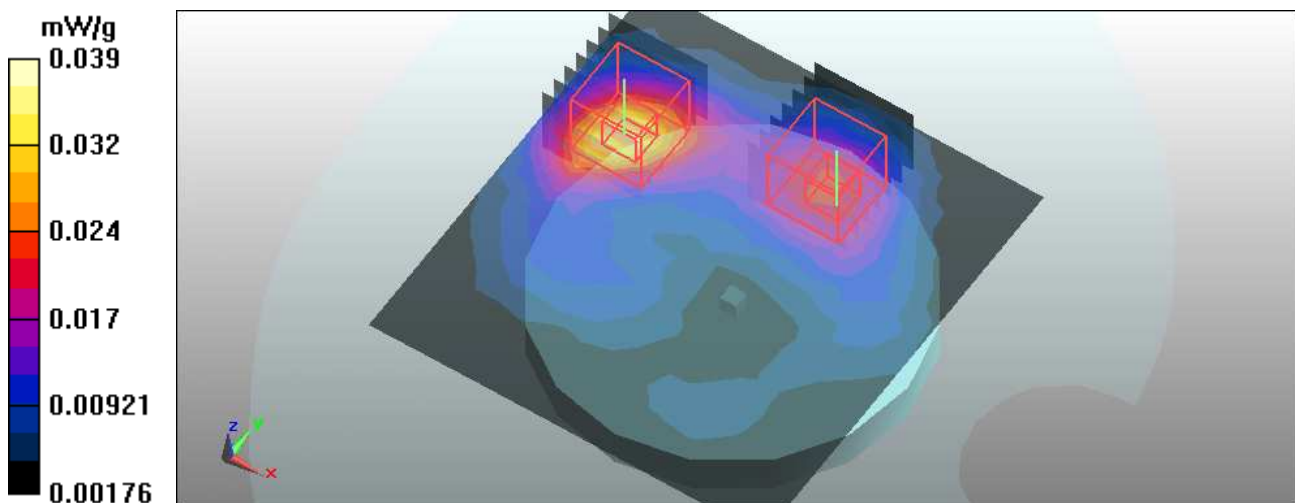Maximum value of SAR (measured) = 0.039 mW/g

**Flat Section 10mm Mid. Ch6/Zoom Scan (7x7x9)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 1.98 V/m; Power Drift = -0.173 dB

Peak SAR (extrapolated) = 0.031 W/kg

**SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.023 mW/g

Test Laboratory: Bureau Veritas ADT

# M17-11b-Ch6_Back / Ant 2

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
Medium: MSL2450 Medium parameters used: f = 2437 MHz; $\sigma$ = 1.98 mho/m; $\varepsilon_r$ = 54.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The back side of the EUT   to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.91, 7.91, 7.91); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid. Ch6/Area Scan (16x17x1):** Measurement grid: dx=8mm, dy=8mm
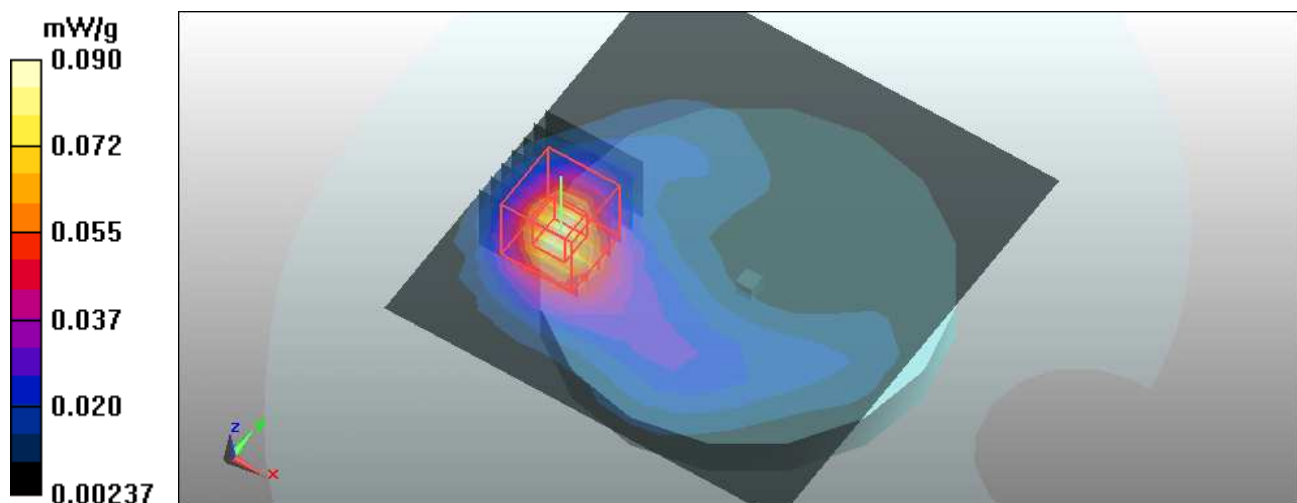Maximum value of SAR (measured) = 0.087 mW/g

**Flat Section 10mm Mid. Ch6/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm,
dy=5mm, dz=3mm
Reference Value = 1.11 V/m; Power Drift = 0.166 dB
Peak SAR (extrapolated) = 0.135 W/kg
**SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.036 mW/g**
Maximum value of SAR (measured) = 0.090 mW/g

Test Laboratory: Bureau Veritas ADT

# M18-11b-Ch6_edge / Ant 2

**DUT: Portable WiFi WiMAX Router ; Type: CDP-PCK2005**

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: DBPSK
Medium: MSL2450 Medium parameters used: f = 2437 MHz; $\sigma$ = 1.98 mho/m; $\varepsilon_r$ = 54.8; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section ; Separation distance : 10 mm (The edge side of the EUT   to the Phantom)

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.91, 7.91, 7.91); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**Flat Section 10mm Mid. Ch6/Area Scan (16x7x1):** Measurement grid: dx=8mm, dy=8mm
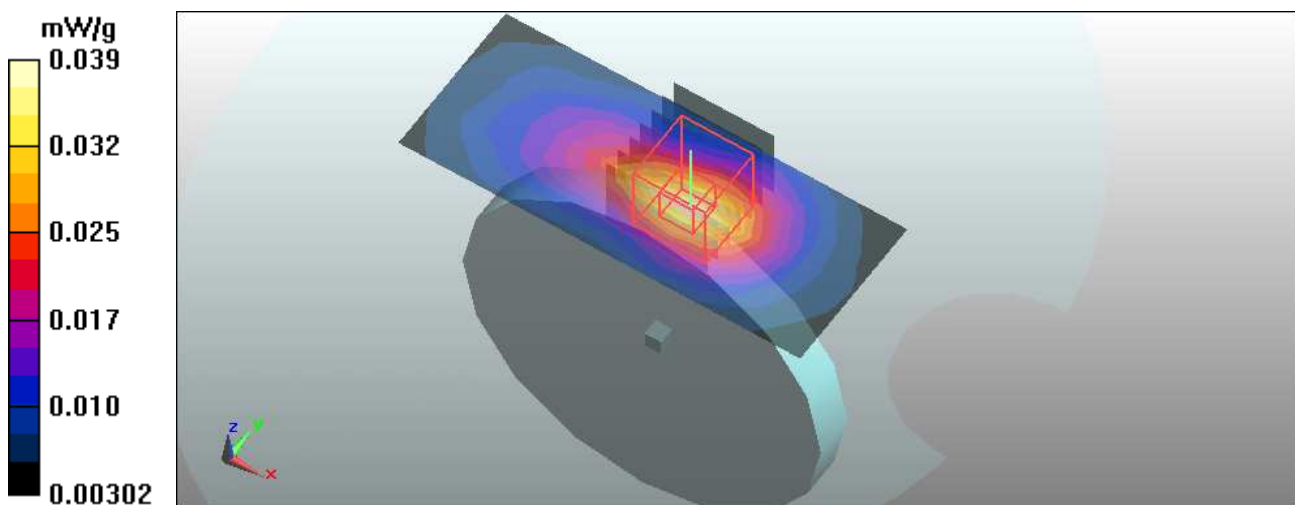Maximum value of SAR (measured) = 0.039 mW/g

**Flat Section 10mm Mid. Ch6/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm,
dy=5mm, dz=3mm
Reference Value = 4.2 V/m; Power Drift = -0.119 dB
Peak SAR (extrapolated) = 0.048 W/kg
**SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.015 mW/g**
Maximum value of SAR (measured) = 0.034 mW/g

Test Laboratory: Bureau Veritas ADT

## SystemPerformanceCheck-MSL2450
**DUT: Dipole 2450 MHz ; Type: D2450V2 ; Serial: 737 ; Test Frequency: 2450 MHz**

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2450;Medium parameters used: f = 2450 MHz; $\sigma$ = 2 mho/m; $\varepsilon_r$ = 54.6; $\rho$ = 1000 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. : 22.6 degrees ; Liquid temp. : 21.4 degrees

 DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.91, 7.91, 7.91); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm
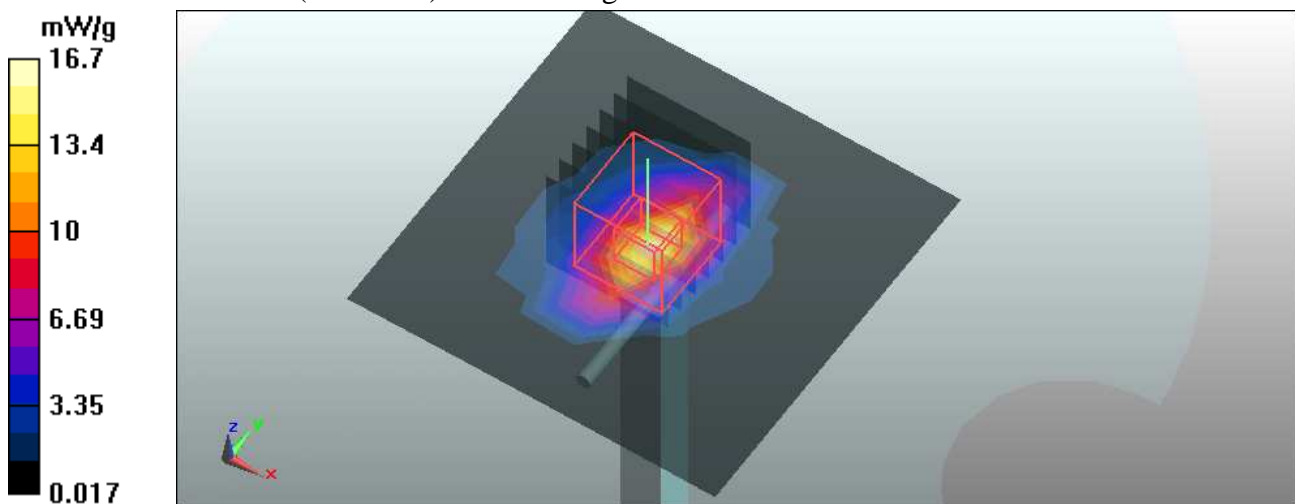Maximum value of SAR (measured) = 16.7 mW/g

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 92.2 V/m; Power Drift = -0.168 dB
Peak SAR (extrapolated) = 26.2 W/kg
**SAR(1 g) = 12.8 mW/g; SAR(10 g) = 5.81 mW/g**
Maximum value of SAR (measured) = 16.9 mW/g

Test Laboratory: Bureau Veritas ADT

## SystemPerformanceCheck-MSL2600MHz
**DUT: Dipole 2600 MHz ; Type: D2600V2 ; Serial: 1020 ; 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; $\varepsilon_r$ = 53.8; $\rho$ = 1000 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. : 22.9 degrees ; Liquid temp. : 21.8 degrees

DASY5 Configuration:

- Probe: EX3DV3 - SN3504; ConvF(7.8, 7.8, 7.8); Calibrated: 2010/1/26

- Sensor-Surface: 3mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510; Calibrated: 2009/12/16

- Phantom: SAM with CRP; Type: SAM; Serial: TP-1485

- Measurement SW: DASY5, V5.2 Build 162; SEMCAD X Version 14.0 Build 61

**System Performance Check/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm
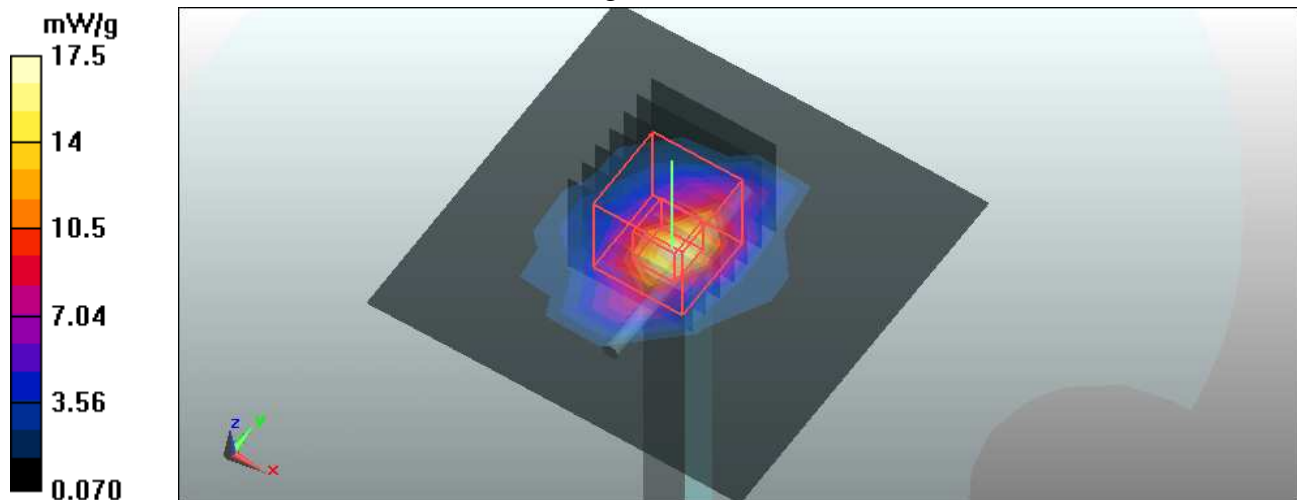Maximum value of SAR (measured) = 17 mW/g

**System Performance Check/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
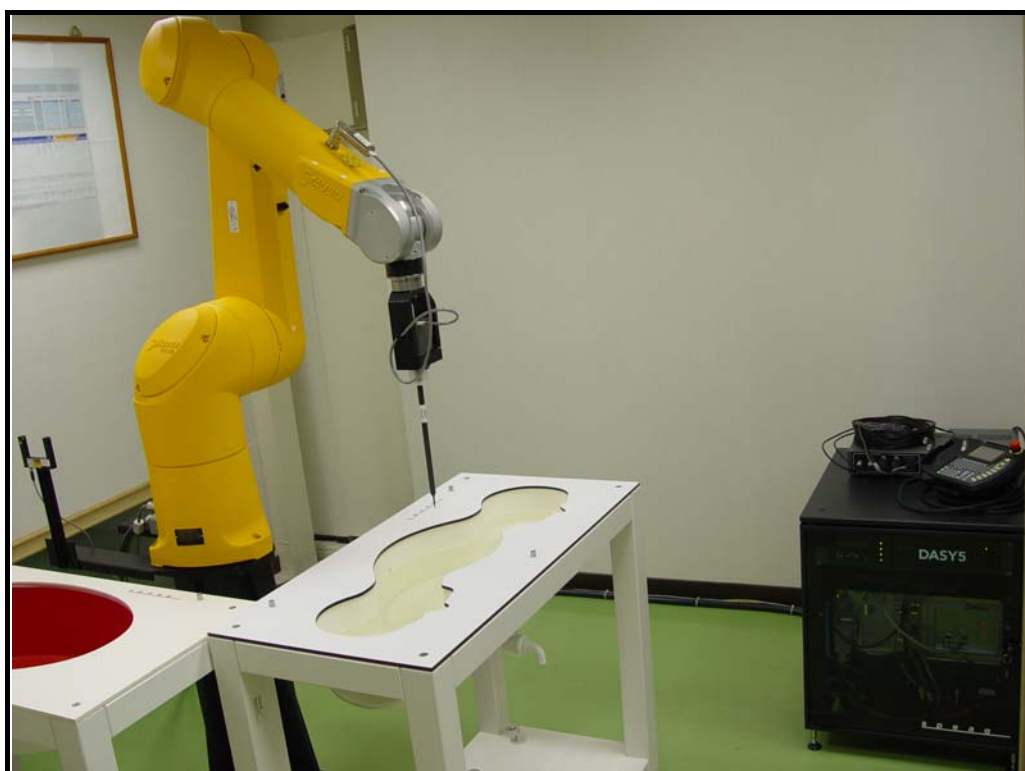Reference Value = 90.1 V/m; Power Drift = -0.125 dB
Peak SAR (extrapolated) = 28.2 W/kg
**SAR(1 g) = 13.2 mW/g; SAR(10 g) = 5.86 mW/g**
Maximum value of SAR (measured) = 17.5 mW/g

# APPENDIX B: BV ADT SAR MEASUREMENT SYSTEM

# APPENDIX C: PHOTOGRAPHS OF SYSTEM VALIDATION