

Test Laboratory: Compliance Certification Services

## Secondary Landscape - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**b mode - L ch/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

**b mode - L ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.7 V/m; Power Drift = 0.109 dB

Peak SAR (extrapolated) = 2.30 W/kg

**SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.521 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

**b mode - L ch/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

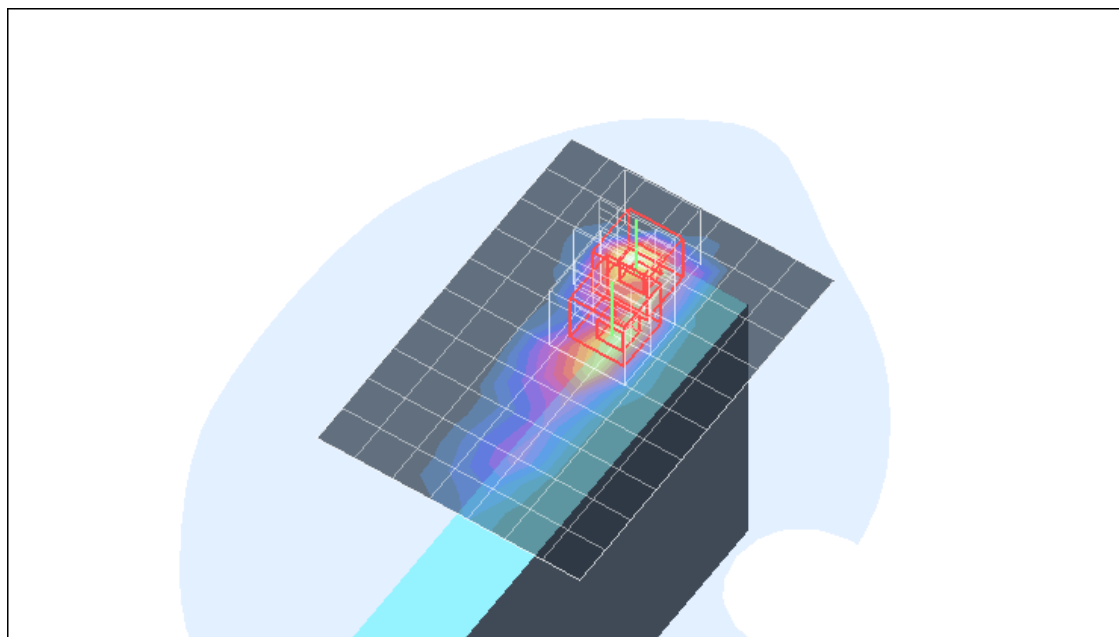
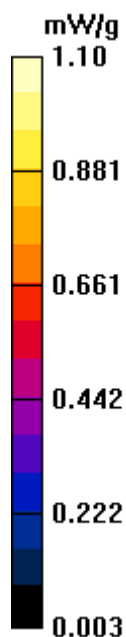
Reference Value = 25.7 V/m; Power Drift = 0.109 dB

Peak SAR (extrapolated) = 2.06 W/kg

**SAR(1 g) = 0.799 mW/g; SAR(10 g) = 0.349 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

## Secondary Landscape - WNC Antenna

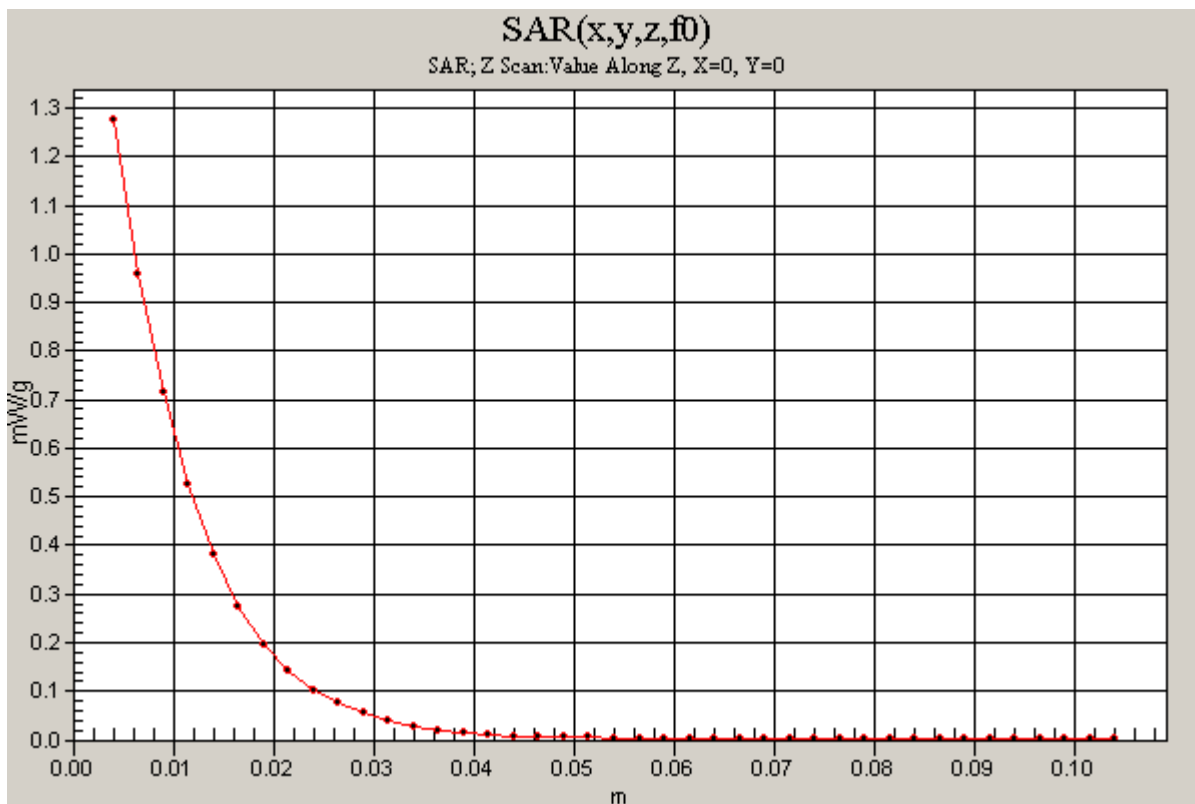
DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2412 MHz; Duty Cycle: 1:1

**b mode - L ch/Z Scan (1x1x41):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.28 mW/g



Test Laboratory: Compliance Certification Services

## Secondary Landscape - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**b mode - M ch/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

**b mode - M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 2.13 W/kg

**SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.461 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

**b mode - M ch/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

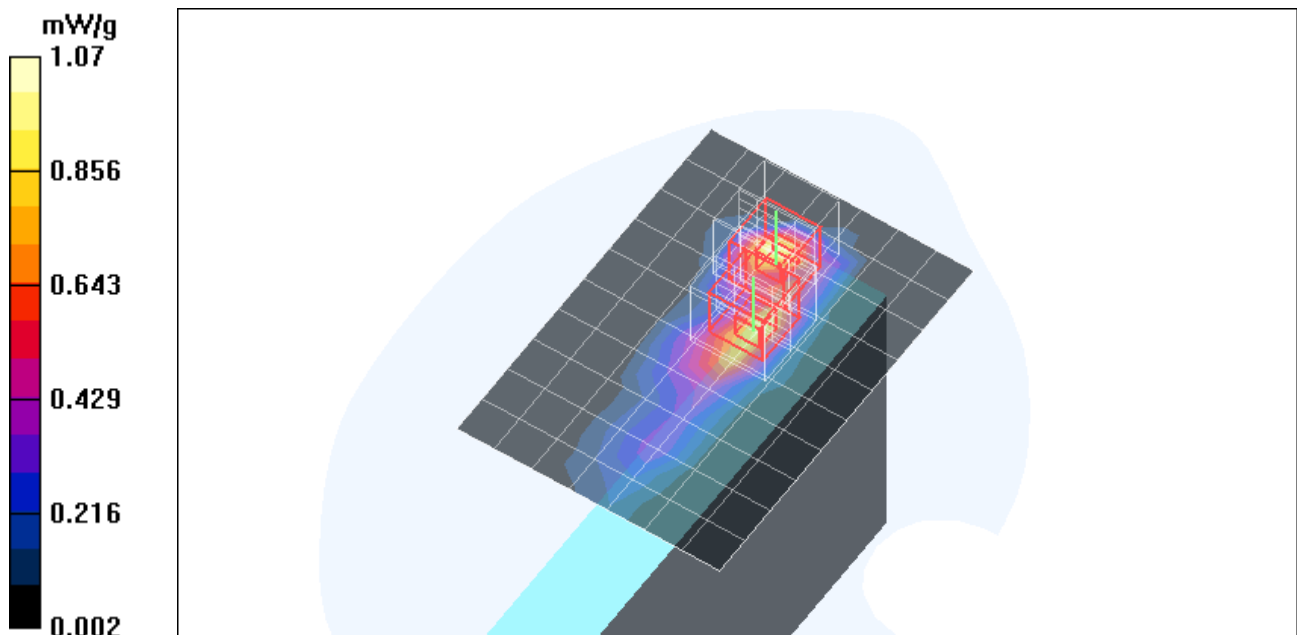
Reference Value = 11.0 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 1.87 W/kg

**SAR(1 g) = 0.759 mW/g; SAR(10 g) = 0.321 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

## Secondary Landscape - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**b mode - H ch/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

**b mode - H ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.0 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 2.39 W/kg

**SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.504 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

**b mode - H ch/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

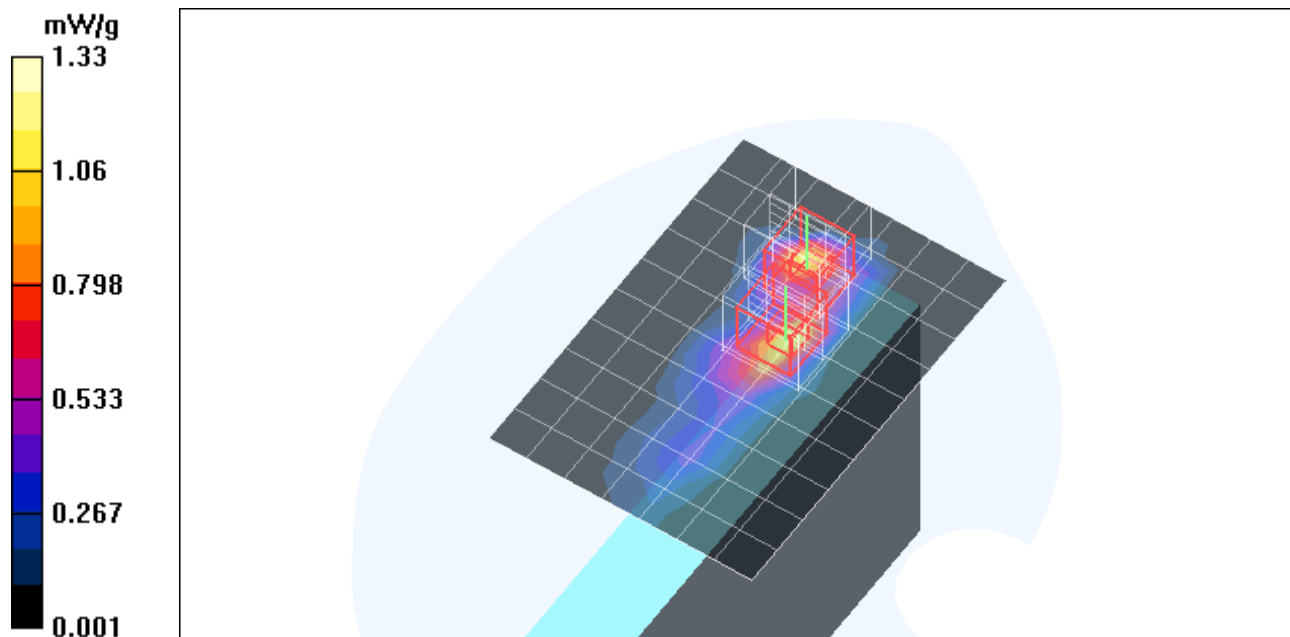
Reference Value = 25.0 V/m; Power Drift = 0.004 dB

Peak SAR (extrapolated) = 2.37 W/kg

**SAR(1 g) = 0.941 mW/g; SAR(10 g) = 0.384 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

### Secondary Landscape - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2412 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2412 \text{ MHz}$ ;  $\sigma = 1.94 \text{ mho/m}$ ;  $\epsilon_r = 51$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

Room Ambient Temperature: 23.0deg. C; Liquid Temperature: 22.0 deg. C

- DASY4 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
  - Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn500; Calibrated: 11/16/2007
  - Phantom: SAM 2; Type: SAM 2; Serial: 1050
  - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**b mode - L ch (Co-Tx)/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

**b mode - L ch (Co-Tx)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.0 V/m; Power Drift = 0.143 dB

Peak SAR (extrapolated) = 2.40 W/kg

**SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.540 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.31 mW/g

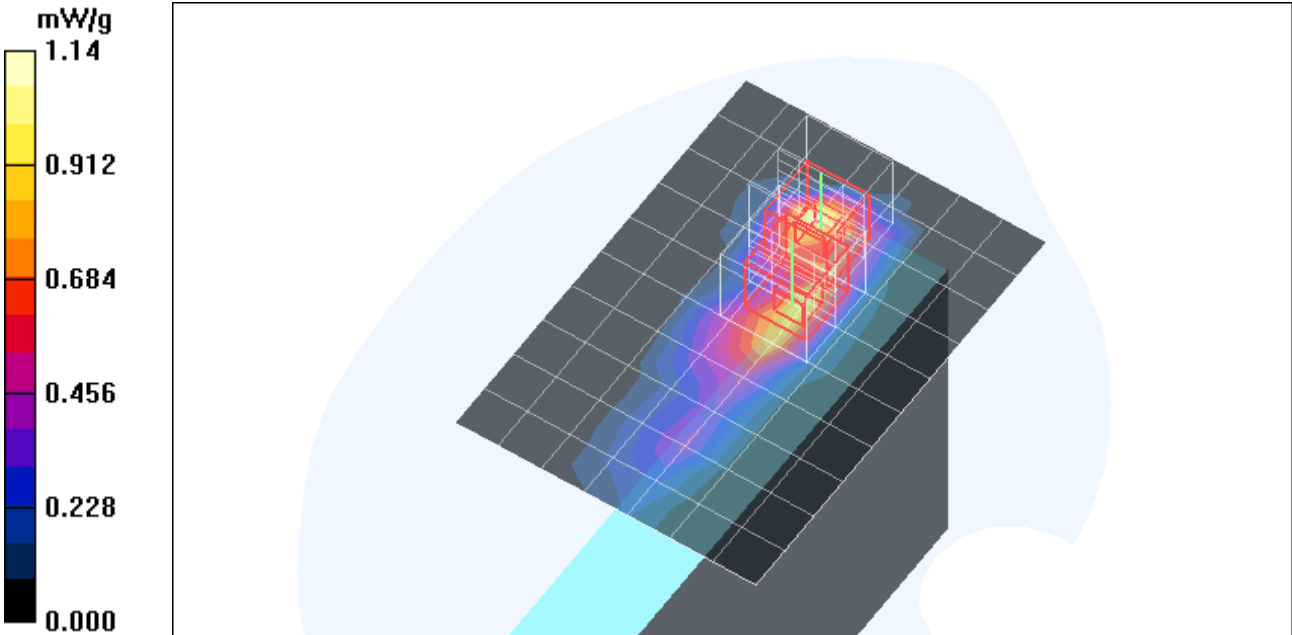
**b mode - L ch (Co-Tx)/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.0 V/m; Power Drift = 0.143 dB

Peak SAR (extrapolated) = 2.10 W/kg

**SAR(1 g) = 0.826 mW/g; SAR(10 g) = 0.366 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)



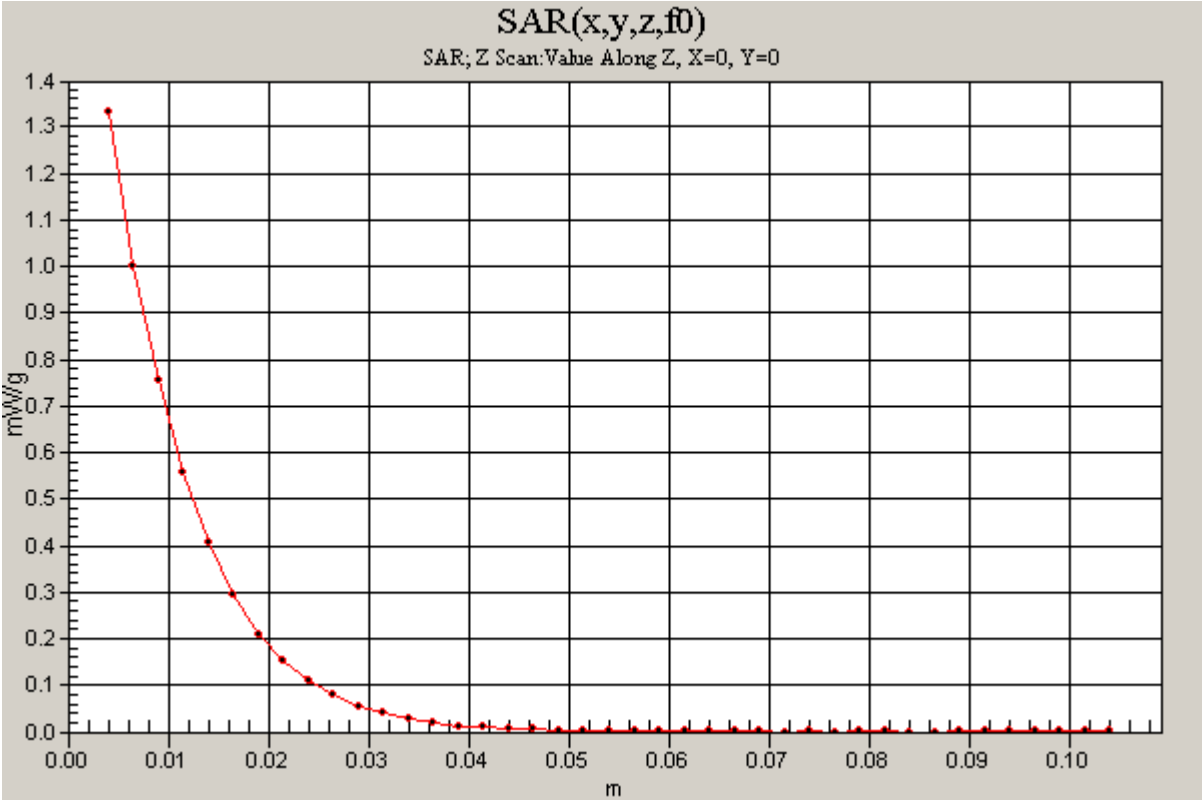
Test Laboratory: Compliance Certification Services

### Secondary Landscape - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2412 MHz;Duty Cycle: 1:1

**b mode - L ch (Co-Tx)/Z Scan (1x1x41):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm  
[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (measured) = 1.33 mW/g



Test Laboratory: Compliance Certification Services

## Secondary Landscape - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**g mode - L ch/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.696 mW/g

**g mode - L ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.1 V/m; Power Drift = 0.058 dB

Peak SAR (extrapolated) = 1.40 W/kg

**SAR(1 g) = 0.693 mW/g; SAR(10 g) = 0.317 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.763 mW/g

**g mode - L ch/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

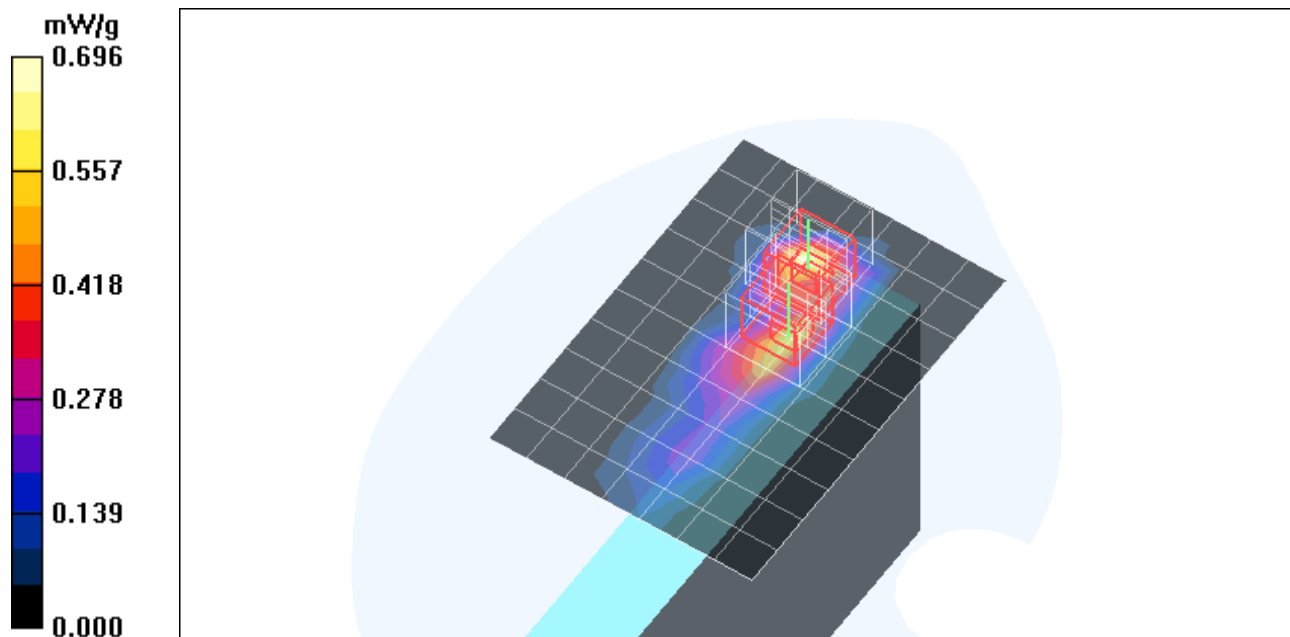
Reference Value = 20.1 V/m; Power Drift = 0.058 dB

Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.212 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.641 mW/g



Test Laboratory: Compliance Certification Services

## Secondary Landscape - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**g mode - M ch/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.922 mW/g

**g mode - M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.6 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 1.89 W/kg

**SAR(1 g) = 0.920 mW/g; SAR(10 g) = 0.411 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

**g mode - M ch/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

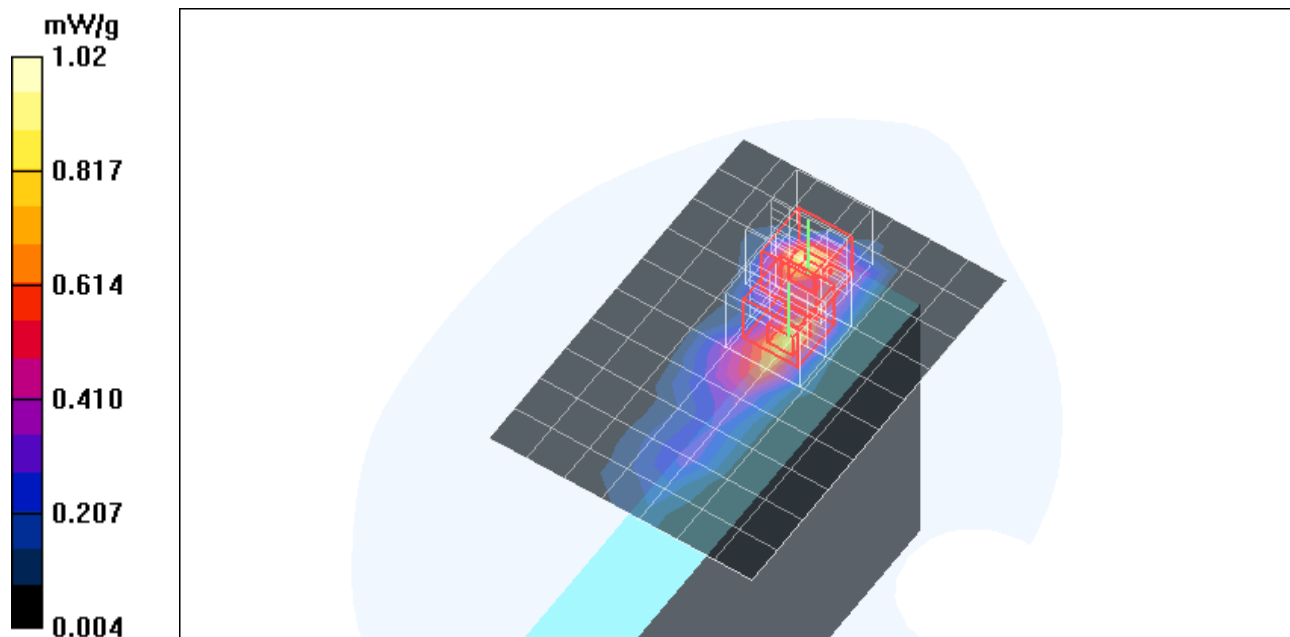
Reference Value = 22.6 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 1.74 W/kg

**SAR(1 g) = 0.683 mW/g; SAR(10 g) = 0.289 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.947 mW/g





Test Laboratory: Compliance Certification Services

## Secondary Landscape - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 2.01$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**g mode - H ch/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.698 mW/g

**g mode - H ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.2 V/m; Power Drift = 0.150 dB

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.694 mW/g; SAR(10 g) = 0.309 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.783 mW/g

**g mode - H ch/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

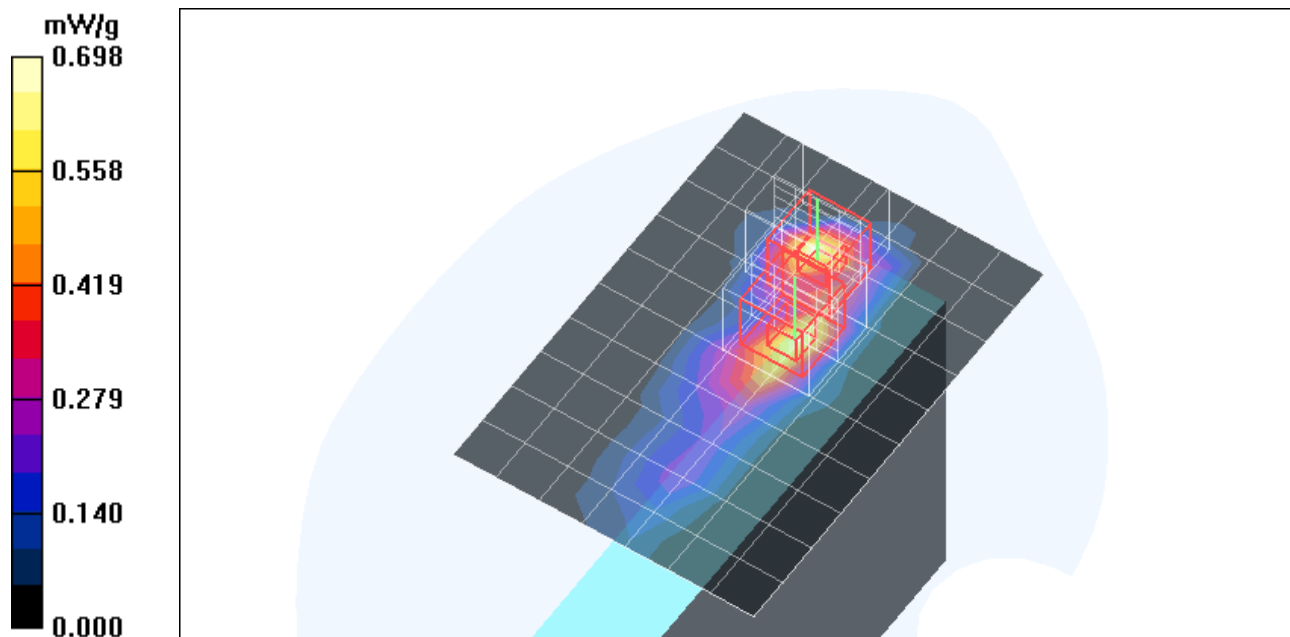
Reference Value = 19.2 V/m; Power Drift = 0.150 dB

Peak SAR (extrapolated) = 1.49 W/kg

**SAR(1 g) = 0.573 mW/g; SAR(10 g) = 0.232 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.785 mW/g



Test Laboratory: Compliance Certification Services

## Secondary Landscape - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**b mode - M ch - Foxconn Ant/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.816 mW/g

**b mode - M ch - Foxconn Ant/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

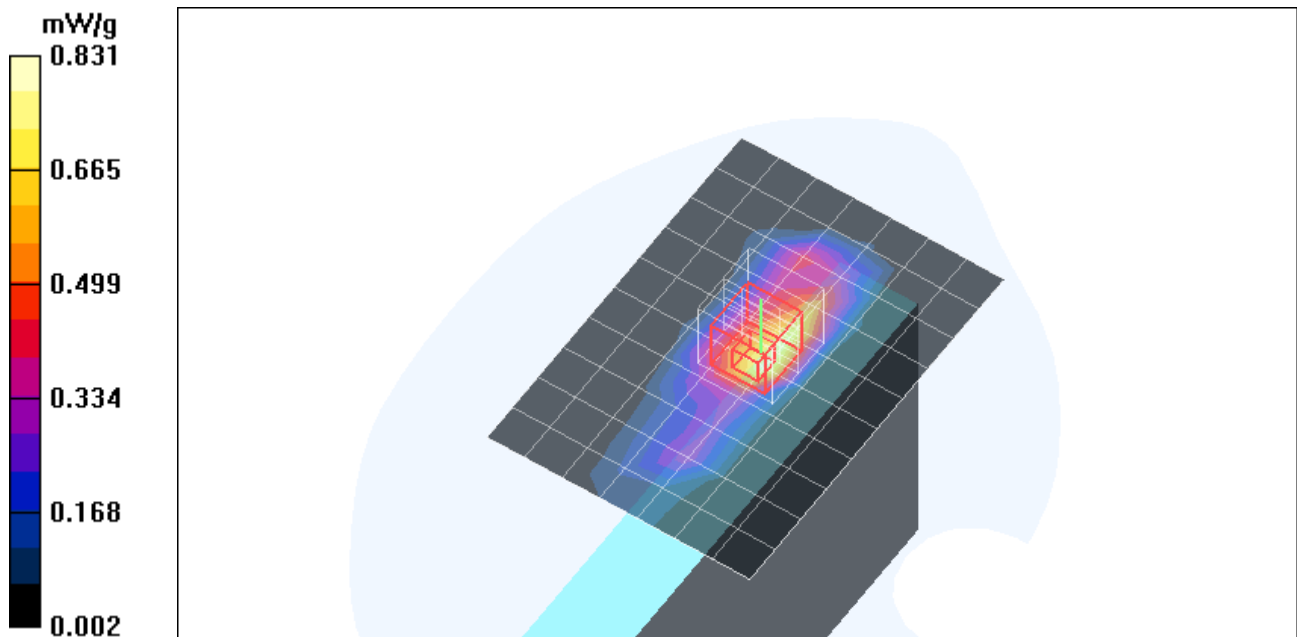
Reference Value = 9.90 V/m; Power Drift = 0.078 dB

Peak SAR (extrapolated) = 2.14 W/kg

**SAR(1 g) = 0.879 mW/g; SAR(10 g) = 0.377 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

## Primary Landscape - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**b mode - M ch/Area Scan (8x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.195 mW/g

**b mode - M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

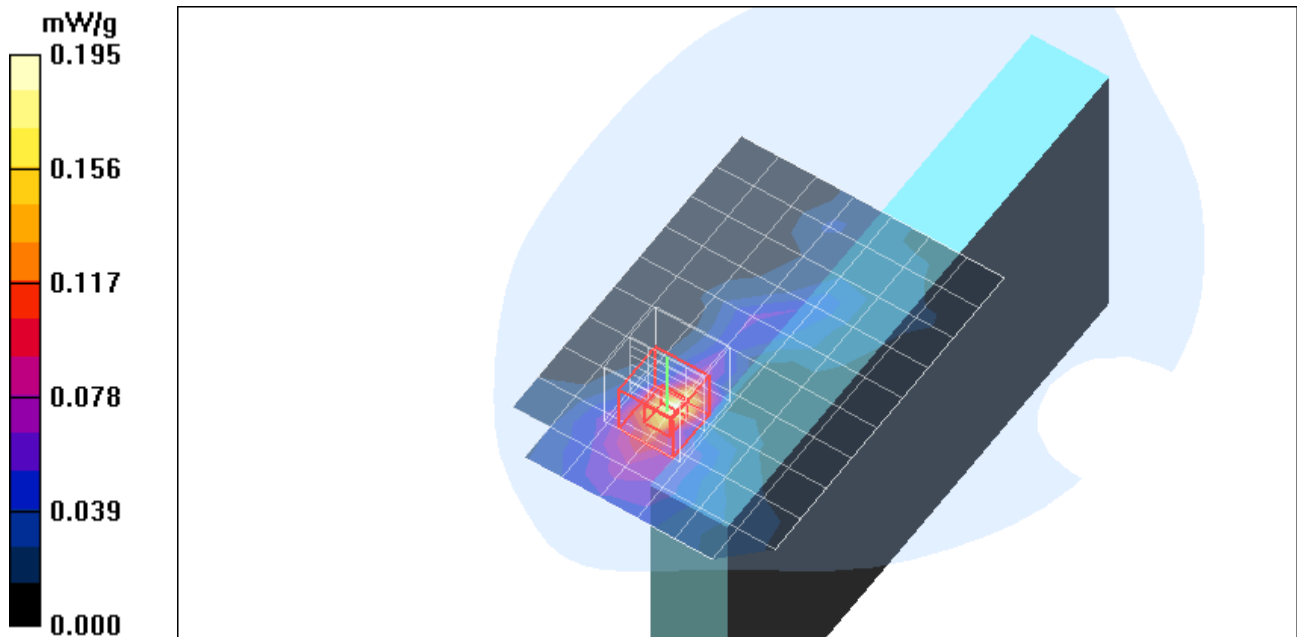
Reference Value = 3.66 V/m; Power Drift = 0.075 dB

Peak SAR (extrapolated) = 0.332 W/kg

**SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.072 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Test Laboratory: Compliance Certification Services

## Primary Portrait - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**b mode - M ch/Area Scan (9x9x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.091 mW/g

**b mode - M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

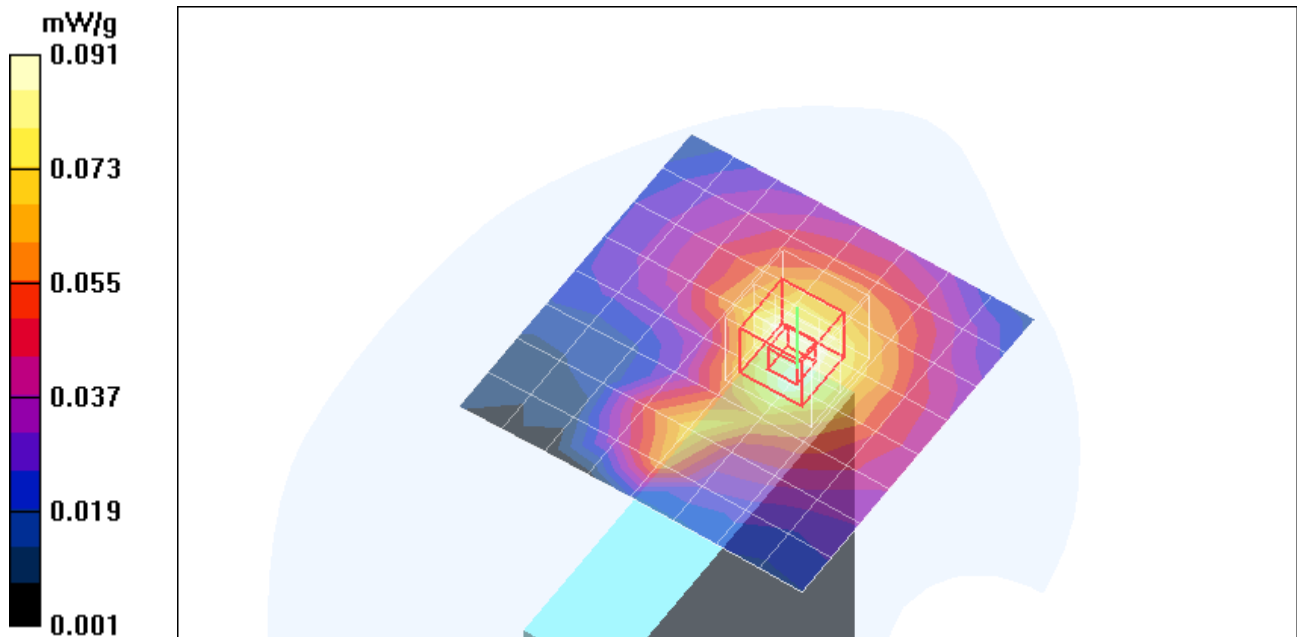
Reference Value = 4.45 V/m; Power Drift = 0.124 dB

Peak SAR (extrapolated) = 0.165 W/kg

**SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.053 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.099 mW/g



Test Laboratory: Compliance Certification Services

## Secondary Portrait - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**b mode - M ch/Area Scan (9x9x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.607 mW/g

**b mode - M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

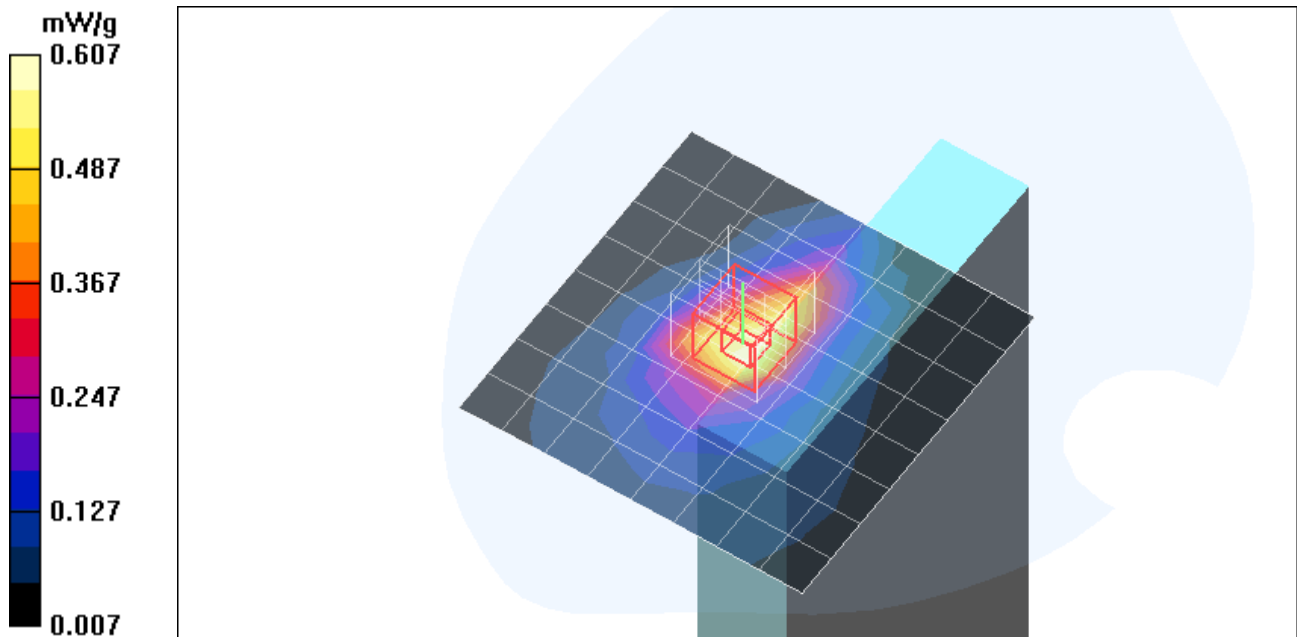
Reference Value = 8.03 V/m; Power Drift = 0.049 dB

Peak SAR (extrapolated) = 1.28 W/kg

**SAR(1 g) = 0.670 mW/g; SAR(10 g) = 0.332 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.746 mW/g



Test Laboratory: Compliance Certification Services

## Secondary Portrait - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**g mode - M ch/Area Scan (9x9x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.301 mW/g

**g mode - M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

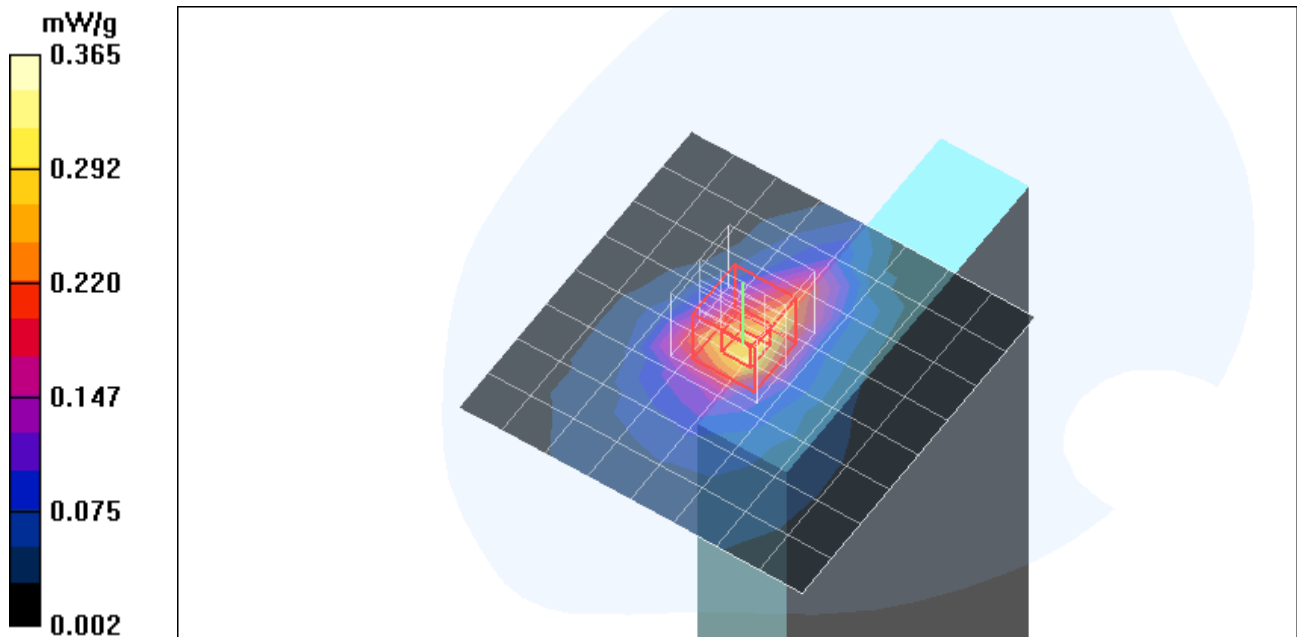
Reference Value = 13.7 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.629 W/kg

**SAR(1 g) = 0.328 mW/g; SAR(10 g) = 0.162 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.365 mW/g



Test Laboratory: Compliance Certification Services

## Lap Held - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**b mode - L ch/Area Scan (9x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

**b mode - L ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

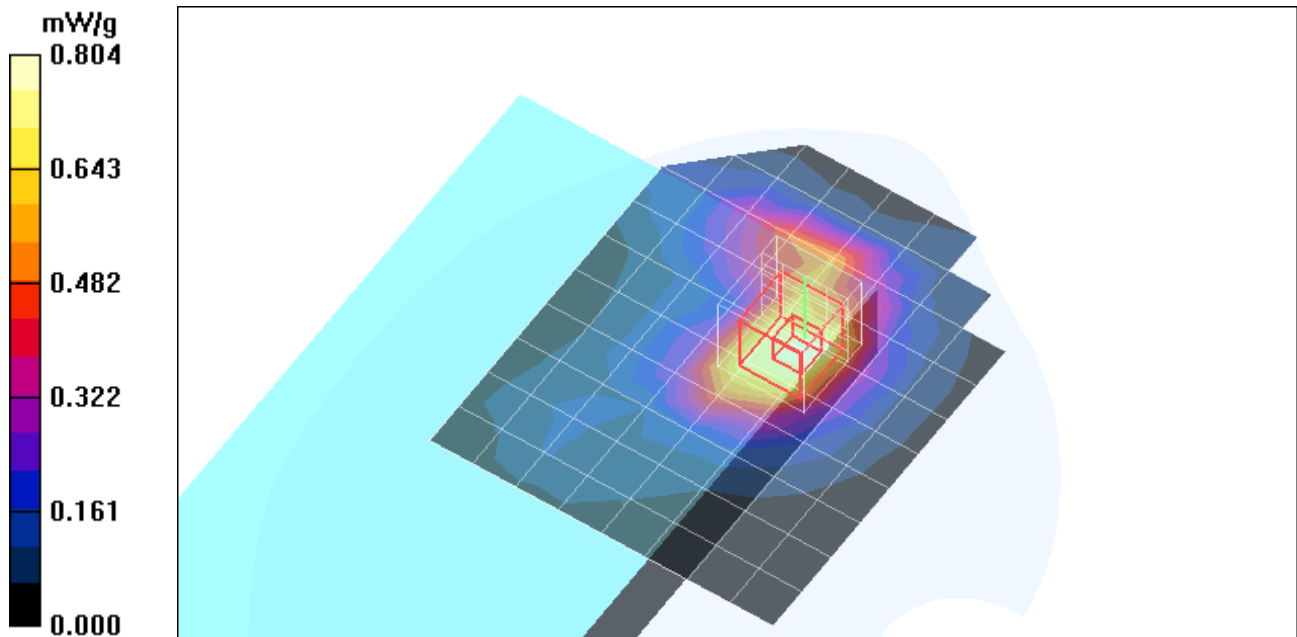
Reference Value = 21.7 V/m; Power Drift = 0.073 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.843 mW/g; SAR(10 g) = 0.457 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.916 mW/g



Test Laboratory: Compliance Certification Services

## Lap Held - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**b mode - M ch/Area Scan (9x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.867 mW/g

**b mode - M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

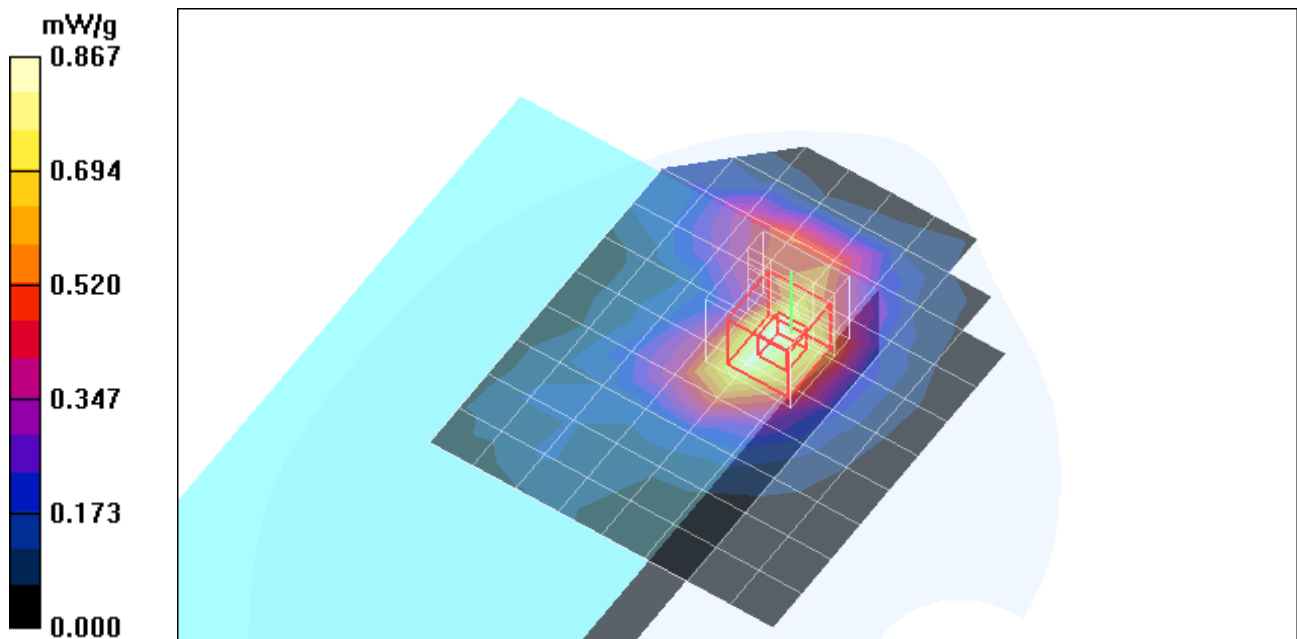
Reference Value = 20.3 V/m; Power Drift = 0.187 dB

Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 0.848 mW/g; SAR(10 g) = 0.459 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.924 mW/g





Test Laboratory: Compliance Certification Services

# Lap Held - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

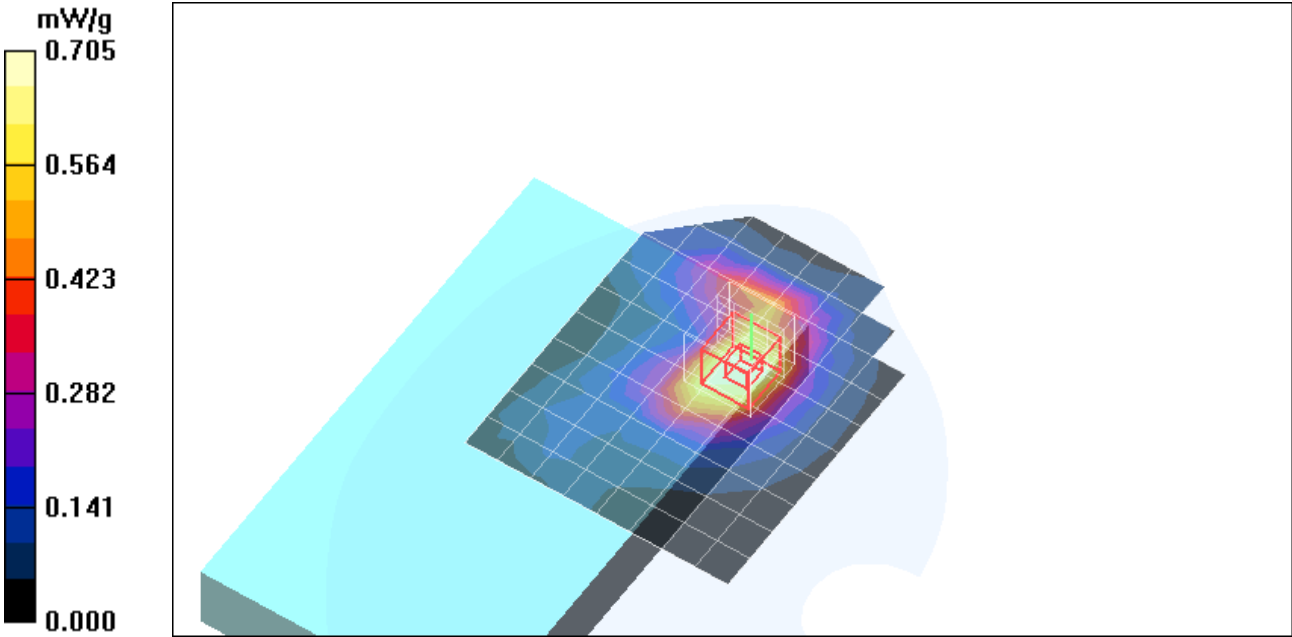
Communication System: 802.11bg; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462 \text{ MHz}$ ;  $\sigma = 2.01 \text{ mho/m}$ ;  $\epsilon_r = 50.8$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Flat Section

Room Ambient Temperature: 23.0deg. C; Liquid Temperature: 22.0 deg. C

- DASY4 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
  - Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn500; Calibrated: 11/16/2007
  - Phantom: SAM 2; Type: SAM 2; Serial: 1050
  - Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**b mode - H ch/Area Scan (9x11x1):** Measurement grid: dx=15mm, dy=15mm  
[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (measured) = 0.705 mW/g

**b mode - H ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 20.1 V/m; Power Drift = 0.074 dB  
Peak SAR (extrapolated) = 1.43 W/kg  
**SAR(1 g) = 0.763 mW/g; SAR(10 g) = 0.408 mW/g**  
[Info: Interpolated medium parameters used for SAR evaluation.](#)  
Maximum value of SAR (measured) = 0.829 mW/g



Test Laboratory: Compliance Certification Services

## Lap Held - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**b mode - M ch (Co-Tx)/Area Scan (9x17x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.920 mW/g

**b mode - M ch (Co-Tx)/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

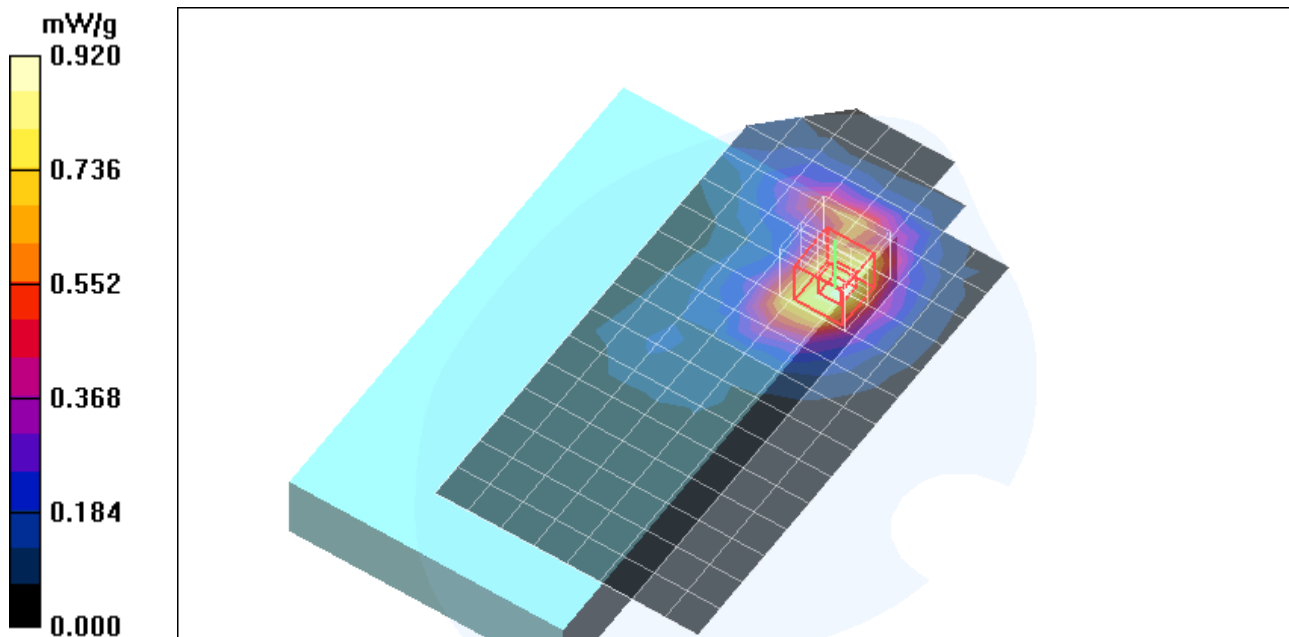
Reference Value = 4.76 V/m; Power Drift = 0.185 dB

Peak SAR (extrapolated) = 1.70 W/kg

**SAR(1 g) = 0.902 mW/g; SAR(10 g) = 0.484 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.983 mW/g



Test Laboratory: Compliance Certification Services

## Lap Held - WNC Antenna

DUT: Samsung; Type: Laptop; Serial: N/A

Communication System: 802.11bg; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 23.0 deg. C; Liquid Temperature: 22.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3554; ConvF(6.14, 6.14, 6.14); Calibrated: 4/24/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 11/16/2007
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.7 Build 55; Postprocessing SW: SEMCAD, V1.8 Build 176

**g mode - M ch/Area Scan (9x11x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.396 mW/g

**g mode - M ch/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.3 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.789 W/kg

**SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.230 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.466 mW/g

