

Test Laboratory: Compliance Certification Services Inc.

## 80211b Bottom Flat RT3090

**DUT: RT3090; Type: Notebook; Serial: n/a**

Communication System: IEEE 802.11b WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 deg C  
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

### DASY4 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

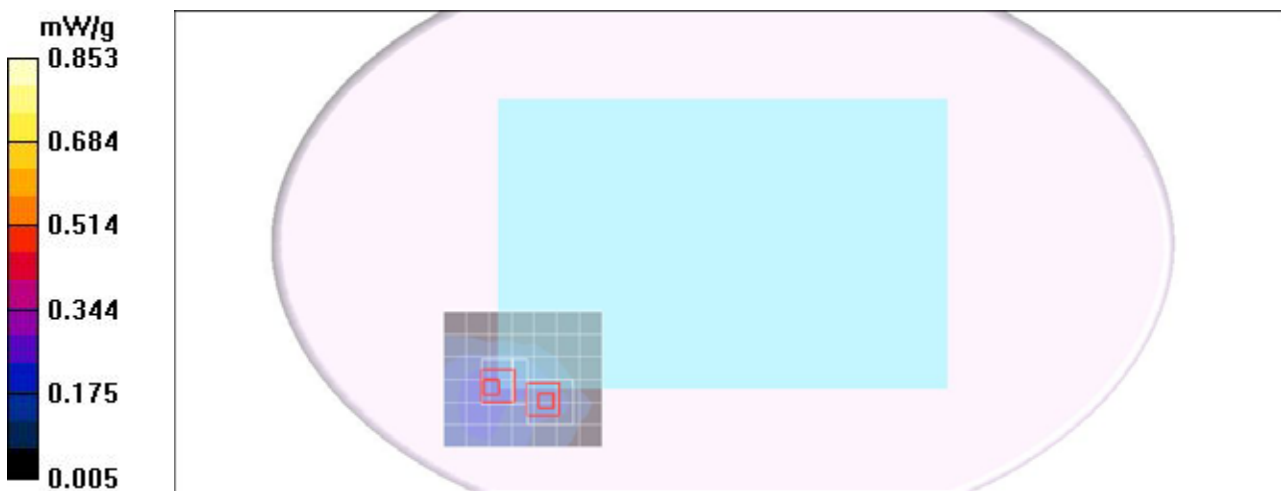
**Bottom Middle CH6/Area Scan (7x8x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.222 mW/g

### Bottom Middle CH6/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm  
Reference Value = 0.000 V/m; Power Drift = -0.003 dB  
Peak SAR (extrapolated) = 0.314 W/kg  
**SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.092 mW/g**  
Maximum value of SAR (measured) = 0.212 mW/g

### Bottom Middle CH6/Zoom Scan (7x7x9)/Cube 1:

Measurement grid: dx=5mm, dy=5mm, dz=3mm  
Reference Value = 0.000 V/m; Power Drift = -0.003 dB  
Peak SAR (extrapolated) = 0.237 W/kg  
**SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.070 mW/g**  
Maximum value of SAR (measured) = 0.172 mW/g



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## 80211b Left Edge RT3090

**DUT: RT3090; Type: Notebook; Serial: n/a**

Communication System: IEEE 802.11b WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.9$  mho/m;  $\epsilon_r = 52.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 deg C

Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

### DASY4 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

### Left edge Low CH1/Area Scan (5x8x1):

Measurement grid: dx=15mm, dy=15mm

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

### Left edge Low CH1/Zoom Scan (7x7x9)/Cube 0:

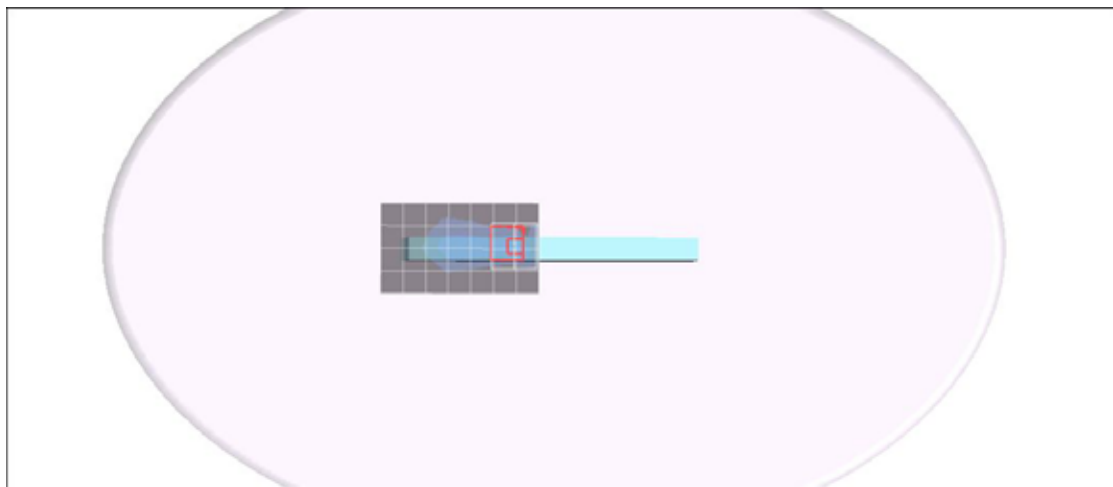
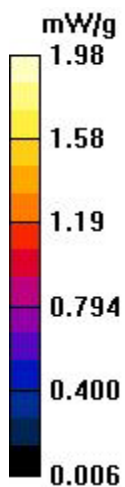
Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 7.49 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.100 mW/g

Maximum value of SAR (measured) = 0.457 mW/g



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## 80211b Left Edge RT3090

**DUT: RT3090; Type: Notebook; Serial: n/a**

Communication System: IEEE 802.11b WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.94$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 deg C  
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

### DASY4 Configuration:

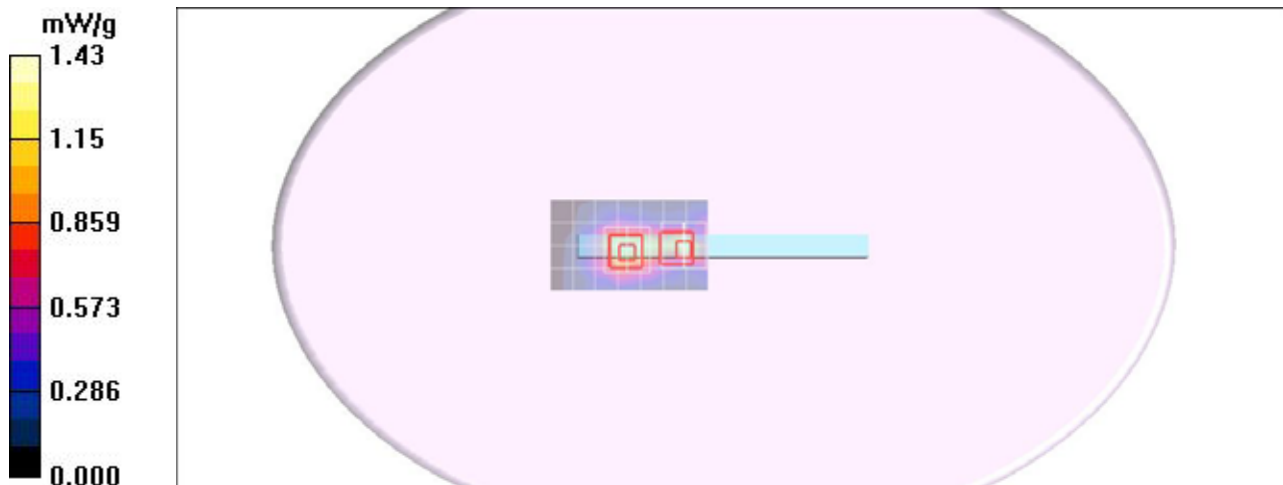
- Probe: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Left edge Middle CH6/Area Scan (5x8x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 1.35 mW/g

**Left edge Middle CH6/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=3mm  
Reference Value = 13.4 V/m; Power Drift = -0.039 dB  
Peak SAR (extrapolated) = 2.15 W/kg  
**SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.588 mW/g**  
Maximum value of SAR (measured) = 1.48 mW/g

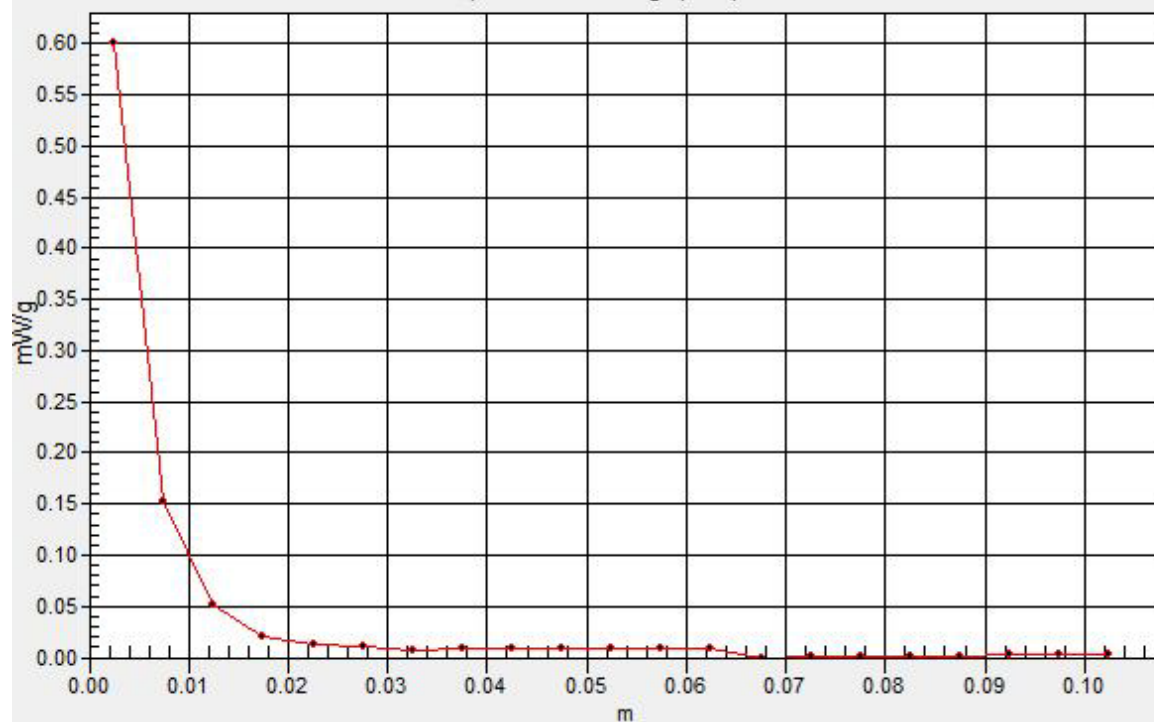
**Left edge Middle CH6/Zoom Scan (7x7x9)/Cube 1:**  
Measurement grid: dx=5mm, dy=5mm, dz=3mm  
Reference Value = 13.4 V/m; Power Drift = -0.039 dB  
Peak SAR (extrapolated) = 3.80 W/kg  
**SAR(1 g) = 0.950 mW/g; SAR(10 g) = 0.374 mW/g**  
Maximum value of SAR (measured) = 1.63 mW/g

**Left edge Middle CH6/Z Scan (1x1x21):**  
Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 0.601 mW/g



# SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0



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## 80211b Left Edge RT3090

**DUT: RT3090; Type: Notebook; Serial: n/a**

Communication System: IEEE 802.11b WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.97$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section  
Air Temperature: 24.2 deg C; Liquid Temperature: 23.2 deg C  
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

### DASY4 Configuration:

- Probe: EX3DV4 - SN3665; ConvF(7.47, 7.47, 7.47);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2011/3/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1056
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

### Left edge High CH11/Area Scan (5x8x1):

Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.506 mW/g

### Left edge High CH11/Zoom Scan (7x7x9)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=3mm  
Reference Value = 9.51 V/m; Power Drift = -0.031 dB  
Peak SAR (extrapolated) = 1.40 W/kg  
SAR(1 g) = **0.351 mW/g**; SAR(10 g) = 0.134 mW/g  
Maximum value of SAR (measured) = 0.606 mW/g

