

Test Laboratory: BTL Inc.

Date: 2019-03-17

**T01\_802.11b\_CH11\_Back of Keyboard\_0cm\_ANT A****DUT: Notebook;**

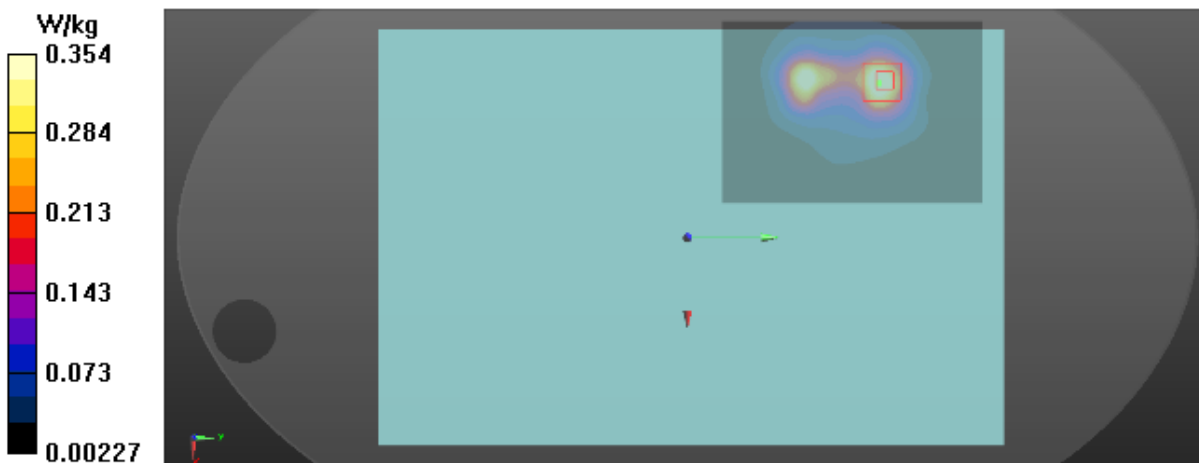
Communication System: UID 0, 802.11b (0); Frequency: 2462 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.998$  S/m;  $\epsilon_r = 53.218$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.3 °C

## DASY Configuration:

- Probe: EX3DV4 - SN7396; ConvF(7.7, 7.7, 7.7) @ 2462 MHz; Calibrated: 2018-05-29
- Sensor-Surface: 4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE3 Sn420; Calibrated: 2018-03-22
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (10x13x1):** Interpolated grid:  $dx=12$  mm,  $dy=12$  mm  
Maximum value of SAR (interpolated) = 0.404 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm  
Reference Value = 0.5310 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 0.694 W/kg  
**SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.160 W/kg**  
Maximum value of SAR (measured) = 0.354 W/kg



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## T51\_802.11b\_CH11\_Back of Keyboard\_0cm\_ANT B

### DUT: Notebook;

Communication System: UID 0, IEEE 802.11b WiFi 2.4GHz (DSSS,1Mbps) (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.051$  S/m;  $\epsilon_r = 51.982$ ;  $\rho = 1000$  kg/m<sup>3</sup>

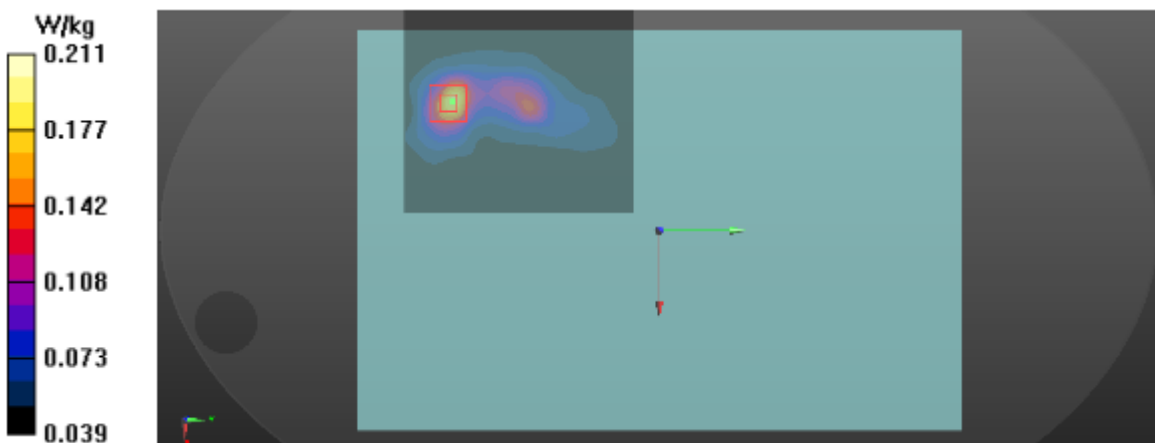
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.1 °C

### DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(6.81, 6.81, 6.81) @ 2462 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (11x12x1):** Interpolated grid: dx=12 mm, dy=12 mm  
Maximum value of SAR (interpolated) = 0.193 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 3.952 V/m; Power Drift = 0.06 dB  
Peak SAR (extrapolated) = 0.285 W/kg  
**SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.091 W/kg**  
Maximum value of SAR (measured) = 0.211 W/kg



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## T52\_BT DH5\_CH78\_Back of Keyboard\_0cm\_ANT A

### DUT: Notebook;

Communication System: UID 0, IEEE802.15.1 BluetoothGFSK,DH5 (0); Frequency: 2480 MHz; Duty Cycle: 1:3.38844

Medium parameters used:  $f = 2480$  MHz;  $\sigma = 2.073$  S/m;  $\epsilon_r = 51.915$ ;  $\rho = 1000$  kg/m<sup>3</sup>

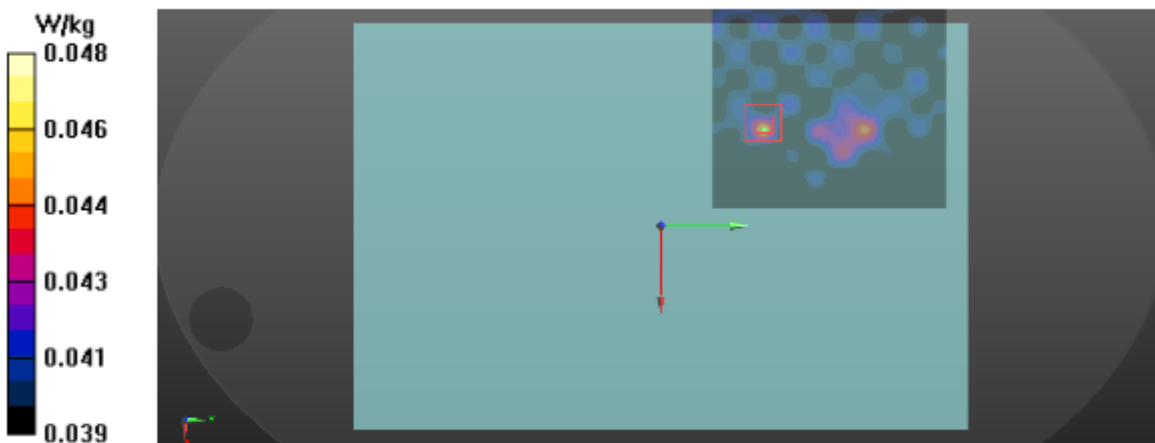
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.1 °C

### DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(6.81, 6.81, 6.81) @ 2480 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (11x12x1):** Interpolated grid: dx=12 mm, dy=12 mm  
Maximum value of SAR (interpolated) = 0.0458 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 4.054 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 0.0530 W/kg  
**SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.043 W/kg**  
Maximum value of SAR (measured) = 0.0479 W/kg



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**T18\_802.11a\_CH60\_Back of Keyboard\_0cm\_ANT A****DUT: Notebook;**

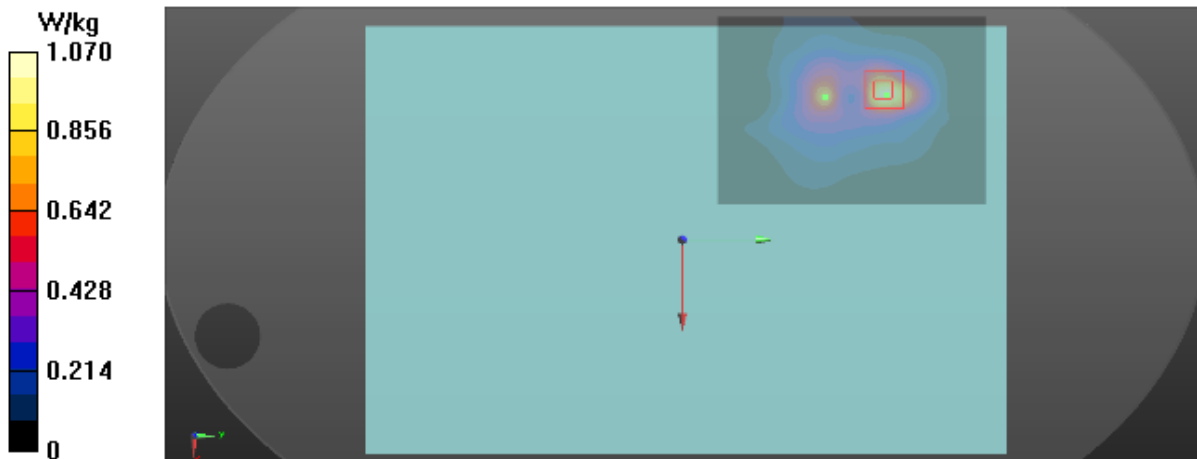
Communication System: UID 0, 802.11a (0); Frequency: 5300 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.488$  S/m;  $\epsilon_r = 47.447$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.5 °C

## DASY Configuration:

- Probe: EX3DV4 - SN7396; ConvF(5.05, 5.05, 5.05) @ 5300 MHz; Calibrated: 2018-05-29
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE3 Sn420; Calibrated: 2018-03-22
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (12x16x1):** Interpolated grid:  $dx=10$  mm,  $dy=10$  mm  
Maximum value of SAR (interpolated) = 1.03 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
Reference Value = 0.2440 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 2.43 W/kg  
**SAR(1 g) = 0.570 W/kg; SAR(10 g) = 0.208 W/kg**  
Maximum value of SAR (measured) = 1.07 W/kg



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**T54\_802.11a\_CH52\_Back of Keyboard\_0cm\_ANT B****DUT: Notebook;**

Communication System: UID 0, IEEE 802.11a WiFi 5G(OFDM, 6 Mbps,) (0); Frequency: 5260 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.436$  S/m;  $\epsilon_r = 47.415$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.3 °C

## DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(4.34, 4.34, 4.34) @ 5260 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (13x15x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.684 W/kg

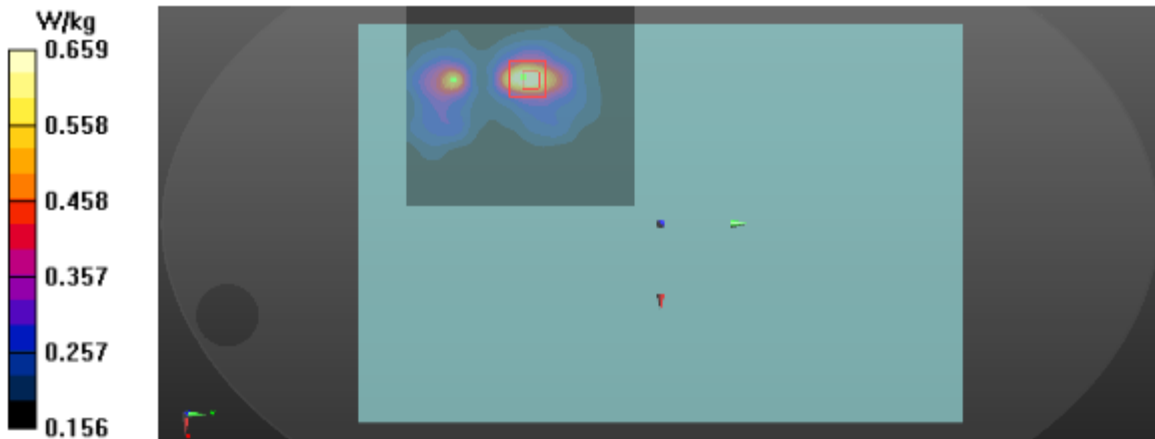
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.984 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.89 W/kg

**SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.279 W/kg**

Maximum value of SAR (measured) = 0.659 W/kg



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## T26\_802.11n40\_CH126\_Back of Keyboard\_0cm\_ANT A

### DUT: Notebook;

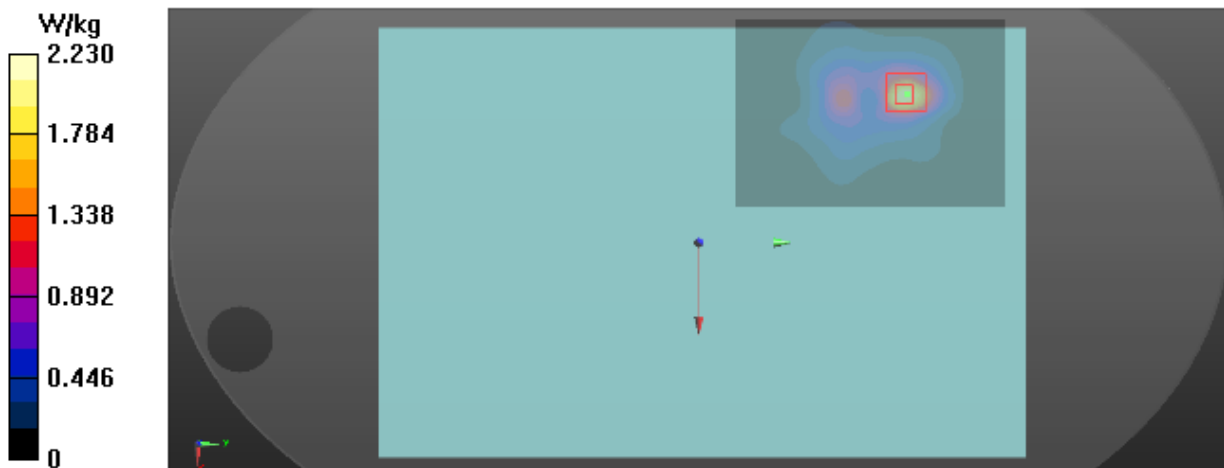
Communication System: UID 0, 802.11n (0); Frequency: 5630 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5630 \text{ MHz}$ ;  $\sigma = 5.948 \text{ S/m}$ ;  $\epsilon_r = 46.796$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.2 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.5 \text{ }^\circ\text{C}$

### DASY Configuration:

- Probe: EX3DV4 - SN7396; ConvF(4.38, 4.38, 4.38) @ 5630 MHz; Calibrated: 2018-05-29
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE3 Sn420; Calibrated: 2018-03-22
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (12x16x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$   
Maximum value of SAR (interpolated) =  $2.10 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $0 \text{ V/m}$ ; Power Drift =  $0.00 \text{ dB}$   
Peak SAR (extrapolated) =  $5.49 \text{ W/kg}$   
**SAR(1 g) =  $1.16 \text{ W/kg}$ ; SAR(10 g) =  $0.418 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.23 \text{ W/kg}$



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**T56\_802.11n40\_CH134\_Back of Keyboard\_0cm\_ANT B**

**DUT: Notebook;**

Communication System: UID 0, IEEE 802.11n WiFi 5G(HT40, 13.5 Mbps,) (0); Frequency: 5670 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 6.006$  S/m;  $\epsilon_r = 46.592$ ;  $\rho = 1000$  kg/m<sup>3</sup>

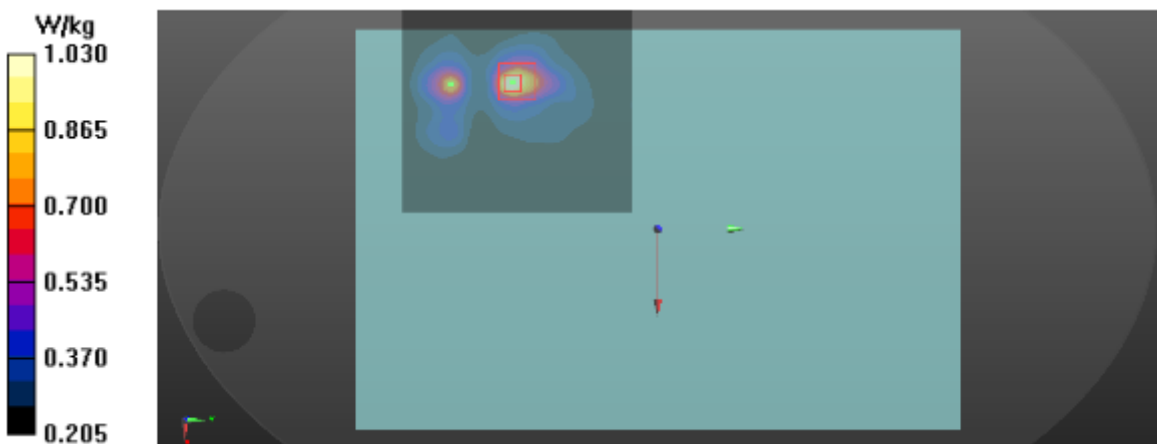
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(3.81, 3.81, 3.81) @ 5670 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (13x15x1):** Interpolated grid: dx=10 mm, dy=10 mm  
Maximum value of SAR (interpolated) = 1.11 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 7.094 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 3.63 W/kg  
**SAR(1 g) = 0.698 W/kg; SAR(10 g) = 0.388 W/kg**  
Maximum value of SAR (measured) = 1.03 W/kg



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**T36\_802.11n40\_CH159\_Back of Keyboard\_0cm\_ANT A****DUT: Notebook;**

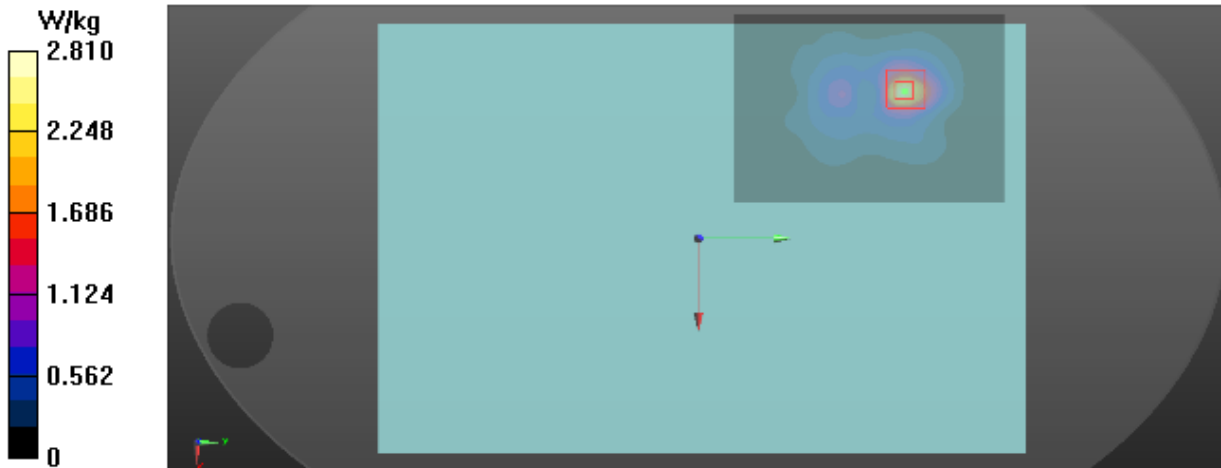
Communication System: UID 0, 802.11n (0); Frequency: 5795 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5795$  MHz;  $\sigma = 6.202$  S/m;  $\epsilon_r = 46.519$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.5 °C

## DASY Configuration:

- Probe: EX3DV4 - SN7396; ConvF(4.5, 4.5, 4.5) @ 5795 MHz; Calibrated: 2018-05-29
- Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE3 Sn420; Calibrated: 2018-03-22
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (12x16x1):** Interpolated grid:  $dx=10$  mm,  $dy=10$  mm  
Maximum value of SAR (interpolated) = 2.69 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
Reference Value = 0.4480 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 6.89 W/kg  
**SAR(1 g) = 1.42 W/kg; SAR(10 g) = 0.500 W/kg**  
Maximum value of SAR (measured) = 2.81 W/kg





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**T58\_802.11n40\_CH159\_Back of Keyboard\_0cm\_ANT B**

**DUT: Notebook;**

Communication System: UID 0, IEEE 802.11n WiFi 5G(HT40, 13.5 Mbps,) (0); Frequency: 5795 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5795 \text{ MHz}$ ;  $\sigma = 6.183 \text{ S/m}$ ;  $\epsilon_r = 46.377$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.3 °C

DASY Configuration:

- Probe: EX3DV4 - SN3685; ConvF(3.76, 3.76, 3.76) @ 5795 MHz; Calibrated: 2019/3/25
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 23.0
- Electronics: DAE4 Sn1390; Calibrated: 2019/5/25
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (13x15x1):** Interpolated grid: dx=10 mm, dy=10 mm  
Maximum value of SAR (interpolated) = 2.27 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 6.198 V/m; Power Drift = -0.07 dB  
Peak SAR (extrapolated) = 6.90 W/kg  
**SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.601 W/kg**  
Maximum value of SAR (measured) = 2.02 W/kg

