

Test Laboratory: BTL, Inc

Date: 2020/6/30

**W04\_802.11b\_CH6\_Bottom Side\_0cm\_Ant A****DUT: Notebook;**

Communication System: UID 0, IEEE 802.11b WiFi 2.4GHz (DSSS, 1Mbps) (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.859$  S/m;  $\epsilon_r = 38.352$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.2 °C

**DASY Configuration:**

- Probe: ES3DV3 - SN3162; ConvF(4.54, 4.54, 4.54) @ 2437 MHz; Calibrated: 2020/5/9
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn420; Calibrated: 2020/6/22
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (8x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 1.41 W/kg

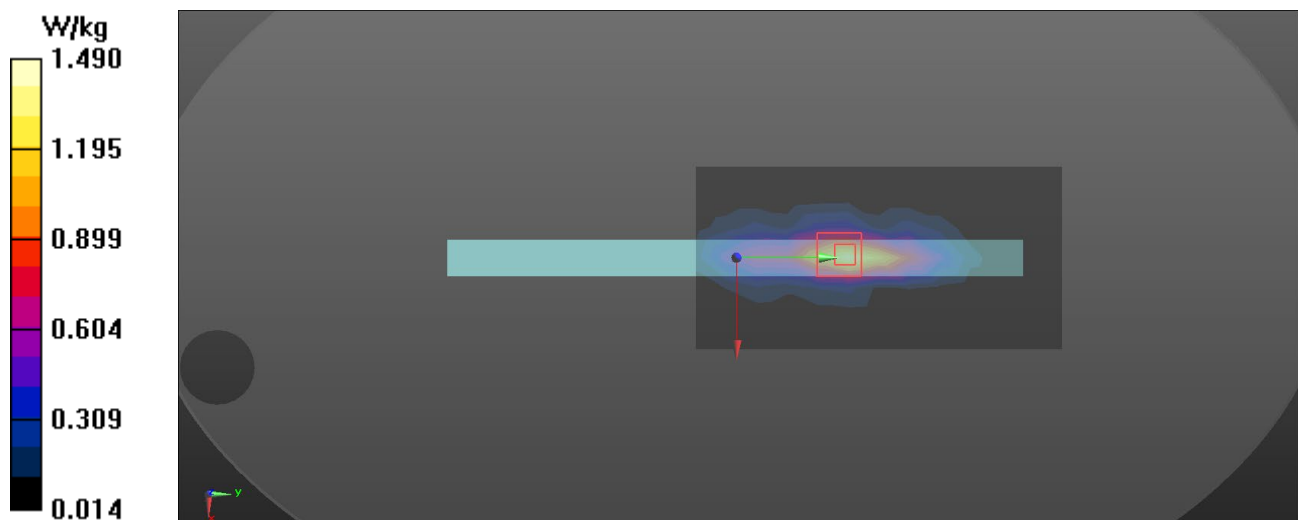
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 18.40 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.38 W/kg

**SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.476 W/kg**

Maximum value of SAR (measured) = 1.49 W/kg



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**W14\_802.11b\_CH1\_Bottom Side\_0cm\_Ant B****DUT: Notebook;**

Communication System: UID 0, IEEE 802.11b WiFi 2.4GHz (DSSS, 1Mbps) (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.831$  S/m;  $\epsilon_r = 38.434$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.2 °C

**DASY Configuration:**

- Probe: ES3DV3 - SN3162; ConvF(4.54, 4.54, 4.54) @ 2412 MHz; Calibrated: 2020/5/9
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- Electronics: DAE3 Sn420; Calibrated: 2020/6/22
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (8x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 1.37 W/kg

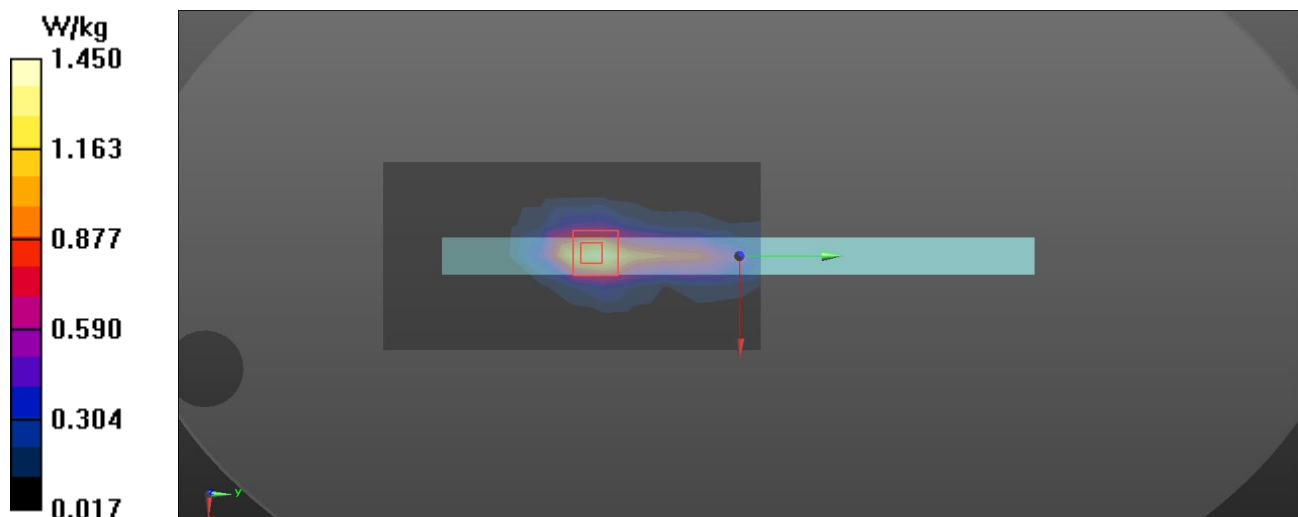
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 16.44 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.47 W/kg

**SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.495 W/kg**

Maximum value of SAR (measured) = 1.45 W/kg



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## W24\_802.11a\_CH48\_Bottom Side\_0cm\_Ant A

### DUT: Notebook;

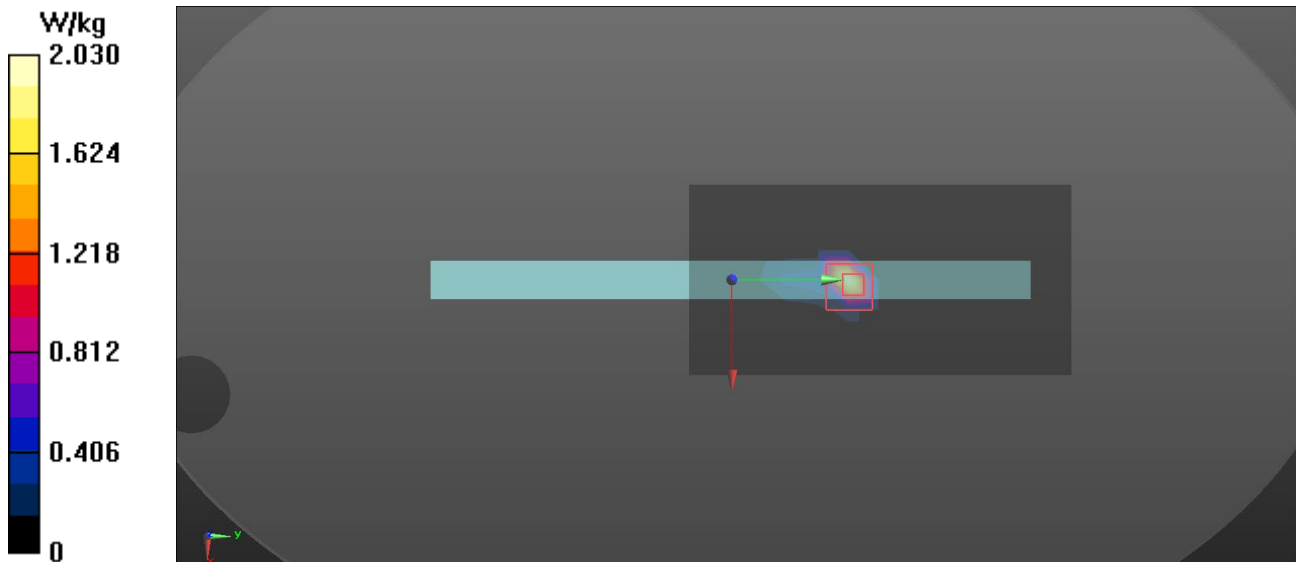
Communication System: UID 0, 802.11a (0); Frequency: 5240 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5240 \text{ MHz}$ ;  $\sigma = 4.822 \text{ S/m}$ ;  $\epsilon_r = 35.294$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.4 \text{ }^\circ\text{C}$

### DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.54, 5.54, 5.54) @ 5240 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (10x19x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $2.10 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $5.432 \text{ V/m}$ ; Power Drift =  $-0.08 \text{ dB}$   
Peak SAR (extrapolated) =  $8.37 \text{ W/kg}$   
**SAR(1 g) =  $1.02 \text{ W/kg}$ ; SAR(10 g) =  $0.246 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.03 \text{ W/kg}$



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### W31\_802.11a\_CH44\_Bottom Side\_0cm\_Ant B

#### DUT: Notebook;

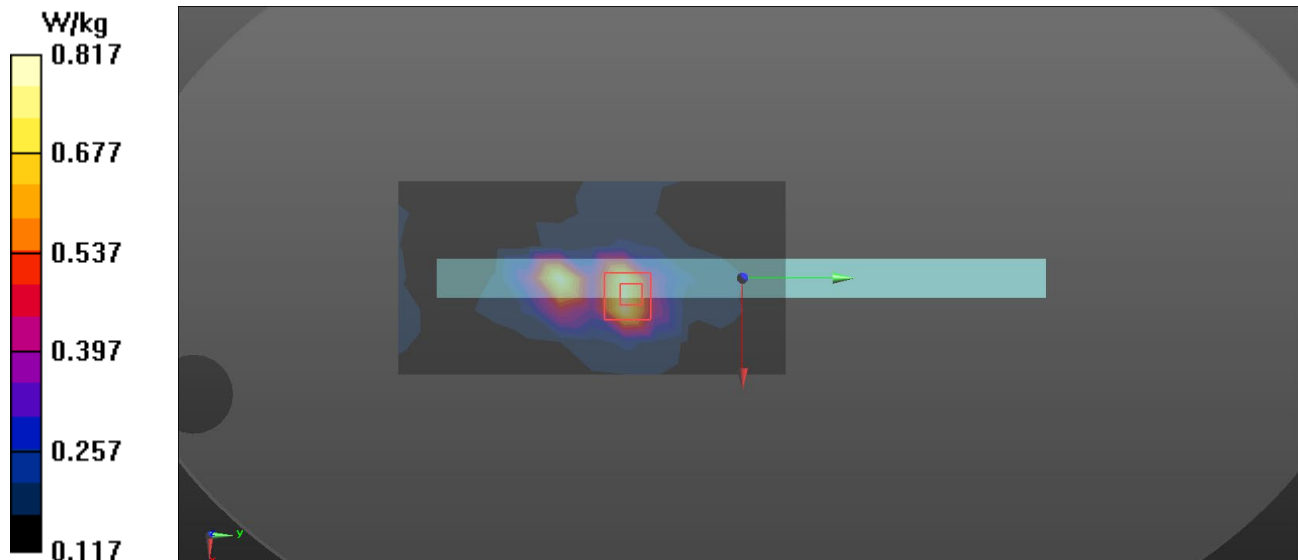
Communication System: UID 0, 802.11a (0); Frequency: 5220 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5220 \text{ MHz}$ ;  $\sigma = 4.797 \text{ S/m}$ ;  $\epsilon_r = 35.341$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.4 \text{ }^\circ\text{C}$

#### DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.54, 5.54, 5.54) @ 5220 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (10x19x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $0.817 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $5.971 \text{ V/m}$ ; Power Drift =  $0.06 \text{ dB}$   
Peak SAR (extrapolated) =  $10.0 \text{ W/kg}$   
**SAR(1 g) =  $1.06 \text{ W/kg}$ ; SAR(10 g) =  $0.419 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.40 \text{ W/kg}$



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## W42\_802.11a\_CH52\_Bottom Side\_0cm\_Ant A

### DUT: Notebook;

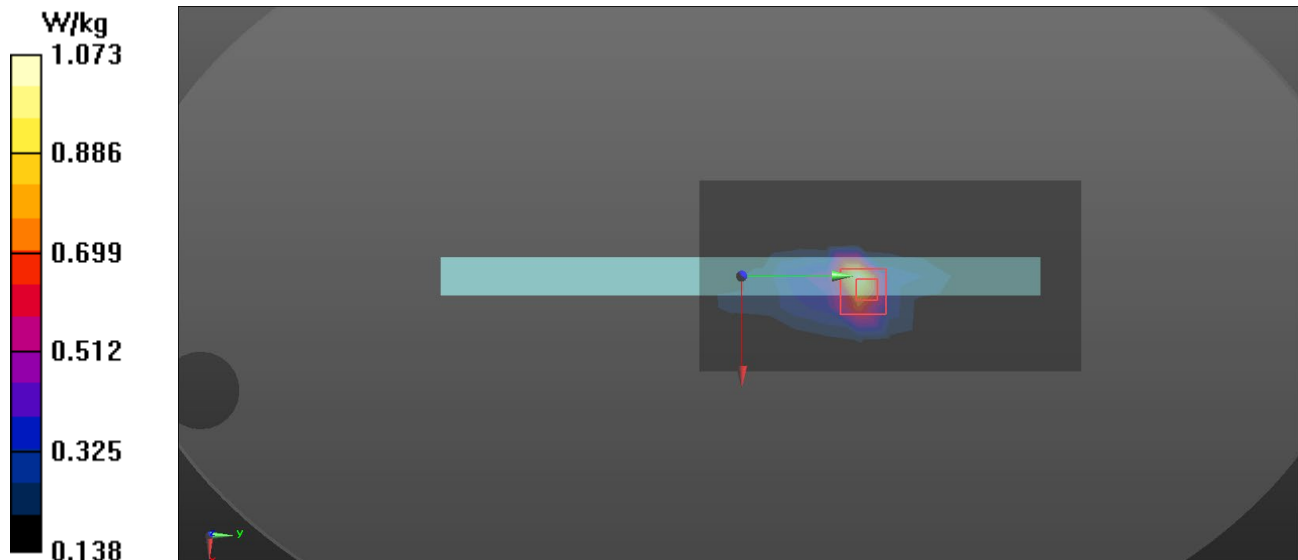
Communication System: UID 0, 802.11a (0); Frequency: 5260 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5260 \text{ MHz}$ ;  $\sigma = 4.847 \text{ S/m}$ ;  $\epsilon_r = 35.257$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.4 \text{ }^\circ\text{C}$

### DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.21, 5.21, 5.21) @ 5260 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (10x19x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $1.07 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $7.165 \text{ V/m}$ ; Power Drift =  $0.07 \text{ dB}$   
Peak SAR (extrapolated) =  $7.75 \text{ W/kg}$   
**SAR(1 g) =  $1.0 \text{ W/kg}$ ; SAR(10 g) =  $0.391 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.82 \text{ W/kg}$



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## W50\_802.11a\_CH52\_Bottom Side\_0cm\_Ant B

### DUT: Notebook;

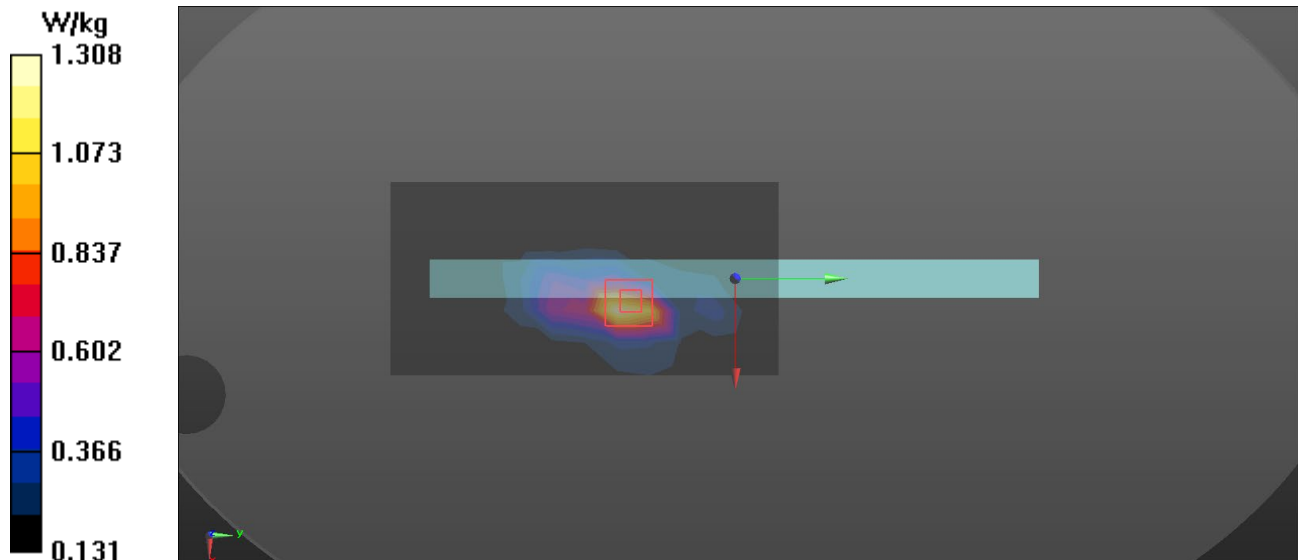
Communication System: UID 0, 802.11a (0); Frequency: 5260 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5260 \text{ MHz}$ ;  $\sigma = 4.847 \text{ S/m}$ ;  $\epsilon_r = 35.257$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.4 \text{ }^\circ\text{C}$

### DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(5.21, 5.21, 5.21) @ 5260 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (10x19x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $1.31 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $6.374 \text{ V/m}$ ; Power Drift =  $0.16 \text{ dB}$   
Peak SAR (extrapolated) =  $9.12 \text{ W/kg}$   
**SAR(1 g) =  $1.05 \text{ W/kg}$ ; SAR(10 g) =  $0.445 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.54 \text{ W/kg}$



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## W59\_802.11a\_CH100\_Bottom Side\_0cm\_Ant A

### DUT: Notebook;

Communication System: UID 0, 802.11a (0); Frequency: 5500 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.12$  S/m;  $\epsilon_r = 34.811$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.4 °C

### DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.95, 4.95, 4.95) @ 5500 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (10x19x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 2.10 W/kg

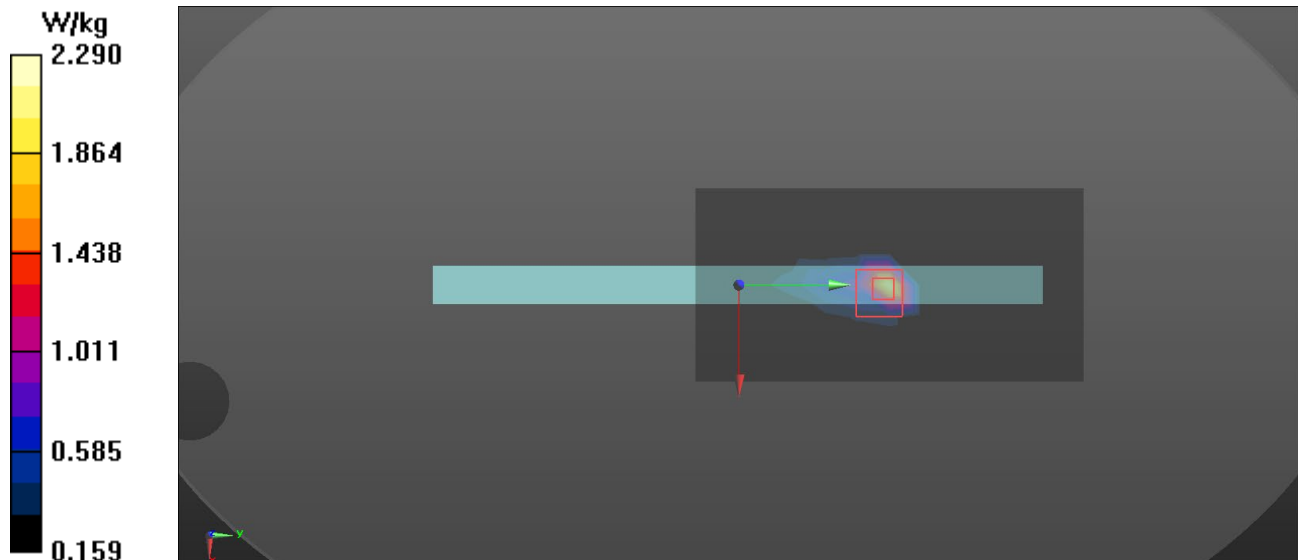
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 8.954 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.38 W/kg

**SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.411 W/kg**

Maximum value of SAR (measured) = 2.29 W/kg



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## W69\_802.11a\_CH140\_Bottom Side\_0cm\_Ant B

### DUT: Notebook;

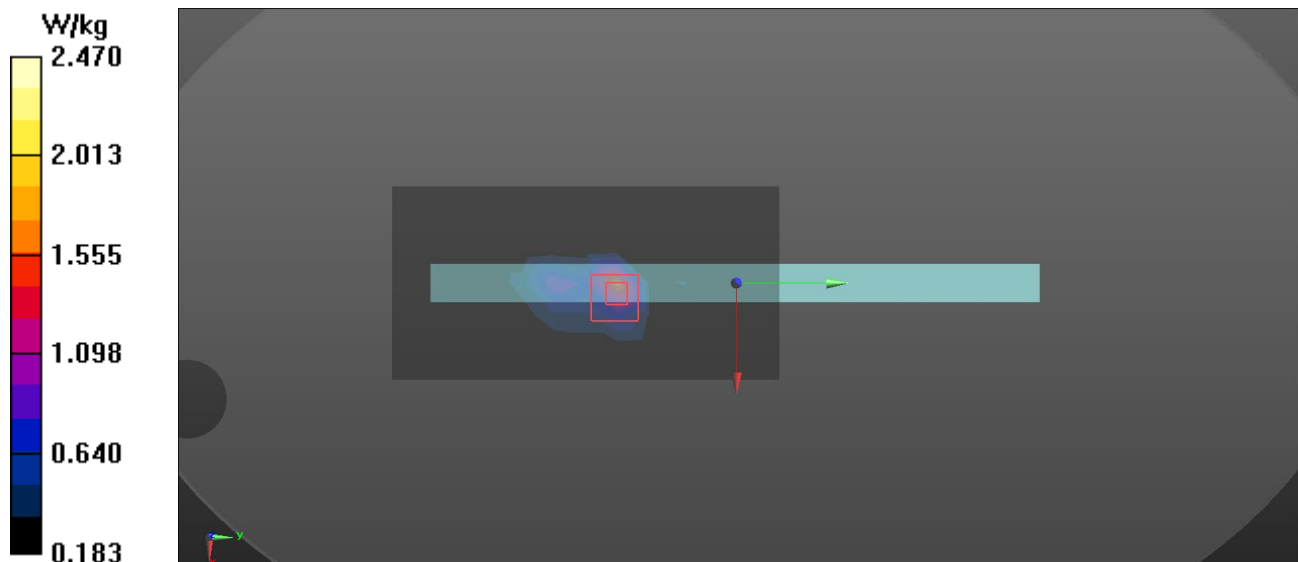
Communication System: UID 0, 802.11a (0); Frequency: 5700 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5700 \text{ MHz}$ ;  $\sigma = 5.326 \text{ S/m}$ ;  $\epsilon_r = 34.461$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.4 \text{ }^\circ\text{C}$

### DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.75, 4.75, 4.75) @ 5700 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (10x19x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $1.64 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $7.401 \text{ V/m}$ ; Power Drift =  $0.05 \text{ dB}$   
Peak SAR (extrapolated) =  $3.81 \text{ W/kg}$   
**SAR(1 g) =  $1.15 \text{ W/kg}$ ; SAR(10 g) =  $0.469 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.47 \text{ W/kg}$



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## W78\_802.11a\_CH165\_Bottom Side\_0cm\_Ant A

### DUT: Notebook;

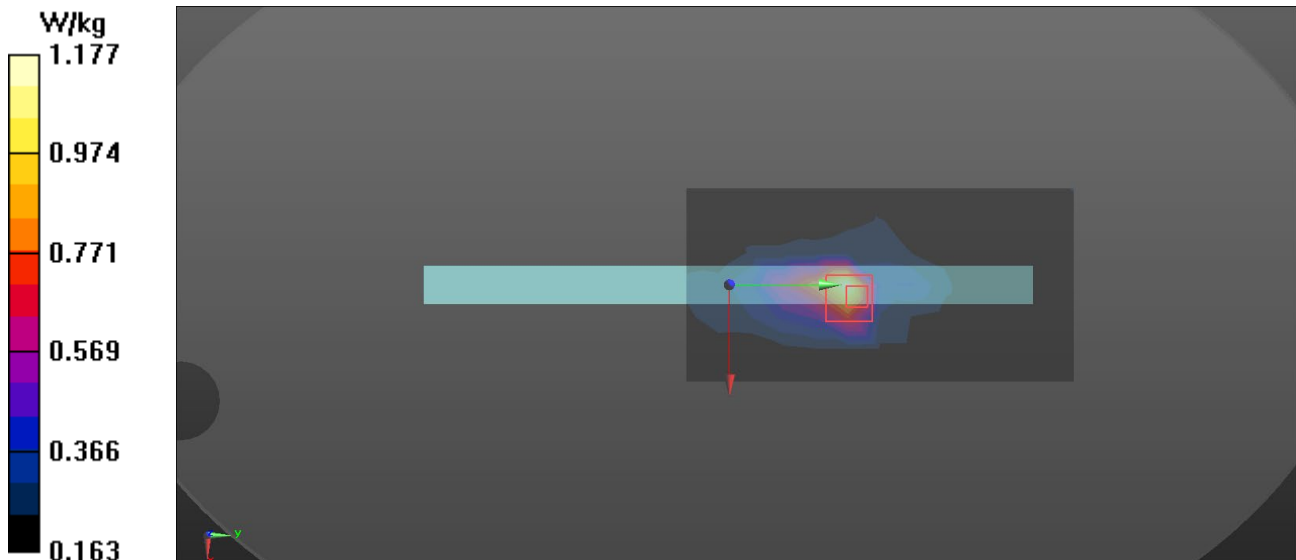
Communication System: UID 0, 802.11a (0); Frequency: 5825 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5825 \text{ MHz}$ ;  $\sigma = 5.474 \text{ S/m}$ ;  $\epsilon_r = 34.227$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.4 \text{ }^\circ\text{C}$

### DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.75, 4.75, 4.75) @ 5825 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1128
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (10x19x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $1.18 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $8.258 \text{ V/m}$ ; Power Drift =  $0.06 \text{ dB}$   
Peak SAR (extrapolated) =  $4.04 \text{ W/kg}$   
**SAR(1 g) =  $1.05 \text{ W/kg}$ ; SAR(10 g) =  $0.462 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.74 \text{ W/kg}$



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## W87\_802.11a\_CH165\_Bottom Side\_0cm\_Ant B

### DUT: Notebook;

Communication System: UID 0, 802.11a (0); Frequency: 5825 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5825 \text{ MHz}$ ;  $\sigma = 5.474 \text{ S/m}$ ;  $\epsilon_r = 34.227$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature :  $23.1 \text{ }^\circ\text{C}$ ; Liquid Temperature :  $22.4 \text{ }^\circ\text{C}$

### DASY Configuration:

- Probe: EX3DV4 - SN7544; ConvF(4.75, 4.75, 4.75) @ 5825 MHz; Calibrated: 2019/9/9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 23.0$
- Electronics: DAE4 Sn1390; Calibrated: 2019/10/29
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1222
- DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

**Area Scan (10x19x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $1.17 \text{ W/kg}$

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$   
Reference Value =  $6.664 \text{ V/m}$ ; Power Drift =  $0.05 \text{ dB}$   
Peak SAR (extrapolated) =  $3.96 \text{ W/kg}$   
**SAR(1 g) =  $1.03 \text{ W/kg}$ ; SAR(10 g) =  $0.448 \text{ W/kg}$**   
Maximum value of SAR (measured) =  $2.65 \text{ W/kg}$

