

## **Appendix B. SAR Plots of SAR Measurement**

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination are shown as follows.

### P01\_WLAN2.4G\_802.11b\_Bottom\_0mm\_Ch6\_Ant 1

**DUT: P21060042**

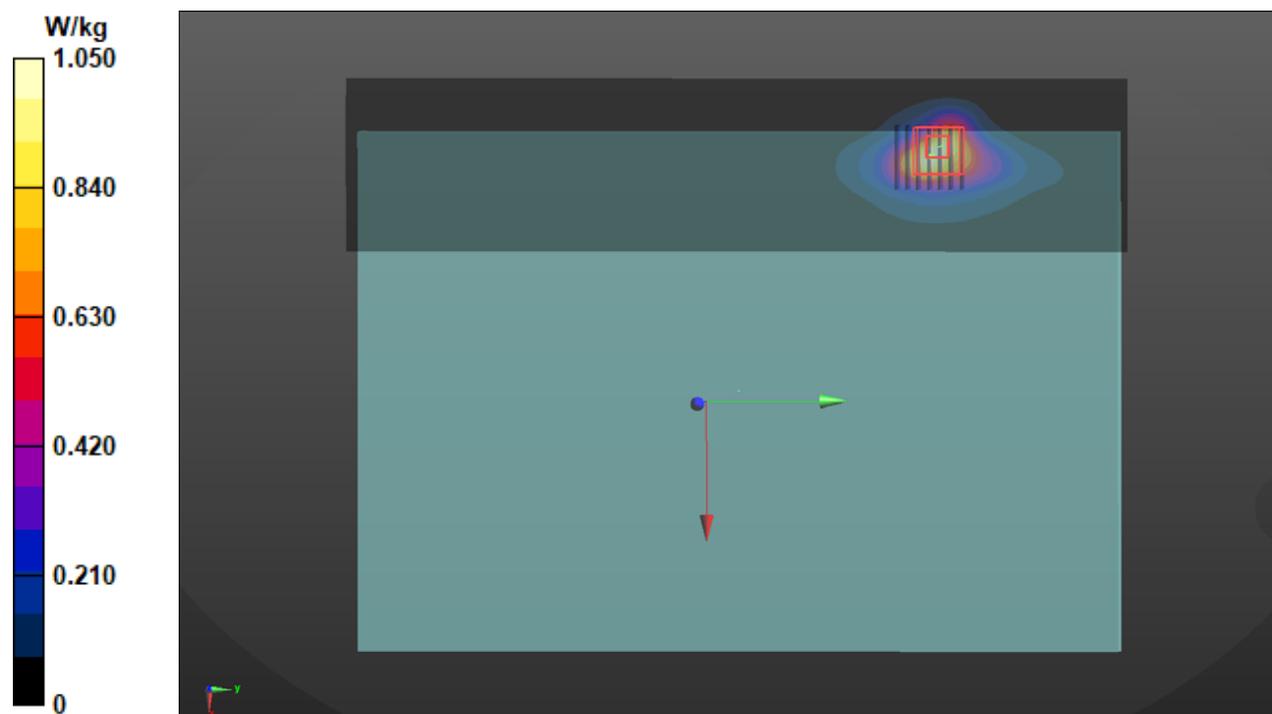
Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps);  
Frequency: 2437 MHz; Duty Cycle: 1:1.01  
Medium: H19T27N1\_0622 Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.862$  S/m;  
 $\epsilon_r = 39.31$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.7 °C; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7555; ConvF(7.59, 7.59, 7.59) @ 2437 MHz; Calibrated: 2020/09/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2020/09/15
- Phantom: Twin-ELI Phantom\_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (71x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 1.050 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 20.98 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 2.70 W/kg  
**SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.467 W/kg** (SAR corrected for target medium)  
Smallest distance from peaks to all points 3 dB below = 7.2 mm  
Ratio of SAR at M2 to SAR at M1 = 41.2%  
Maximum value of SAR (measured) = 2.00 W/kg



## P02\_WLAN5.3G\_802.11n HT40\_Bottom\_0mm\_Ch54\_Ant 0+1

**DUT: P21060042**

Communication System: UID 10599 - AAC, IEEE 802.11n (HT Mixed, 40MHz, MCS0);

Frequency: 5270 MHz; Duty Cycle: 1:1.01

Medium: H34T60N1\_0622 Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.817$  S/m;  $\epsilon_r = 34.824$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7 °C; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7555; ConvF(5.41, 5.41, 5.41) @ 5270 MHz; Calibrated: 2020/09/28

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1589; Calibrated: 2020/09/15

- Phantom: Twin-ELI Phantom\_2118; Type: QD OVA 004 AA;

- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (81x361x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.929 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 13.63 V/m; Power Drift = -0.12 dB

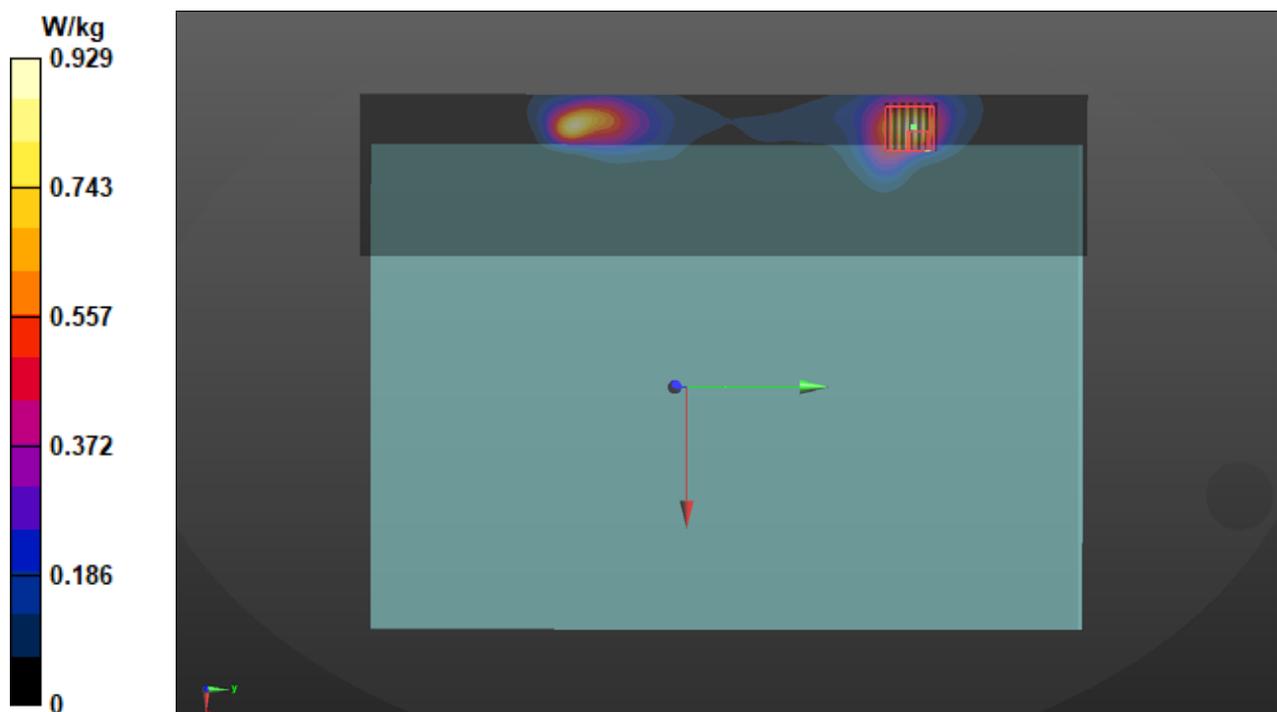
Peak SAR (extrapolated) = 1.64 W/kg

**SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.164 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 68%

Maximum value of SAR (measured) = 1.08 W/kg



### P03\_WLAN5.6G\_802.11ac VHT80\_Bottom\_0mm\_Ch106\_Ant 0+1

**DUT: P21060042**

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency: 5530 MHz; Duty Cycle: 1:1.03  
Medium: H34T60N1\_0622 Medium parameters used (interpolated):  $f = 5530 \text{ MHz}$ ;  $\sigma = 5.052 \text{ S/m}$ ;  $\epsilon_r = 34.442$ ;  $\rho = 1000 \text{ kg/m}^3$   
Ambient Temperature : 23.7 °C; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7555; ConvF(4.8, 4.8, 4.8) @ 5530 MHz; Calibrated: 2020/09/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2020/09/15
- Phantom: Twin-ELI Phantom\_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (81x361x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$   
Maximum value of SAR (interpolated) = 2.160 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$   
Reference Value = 19.63 V/m; Power Drift = -0.07 dB

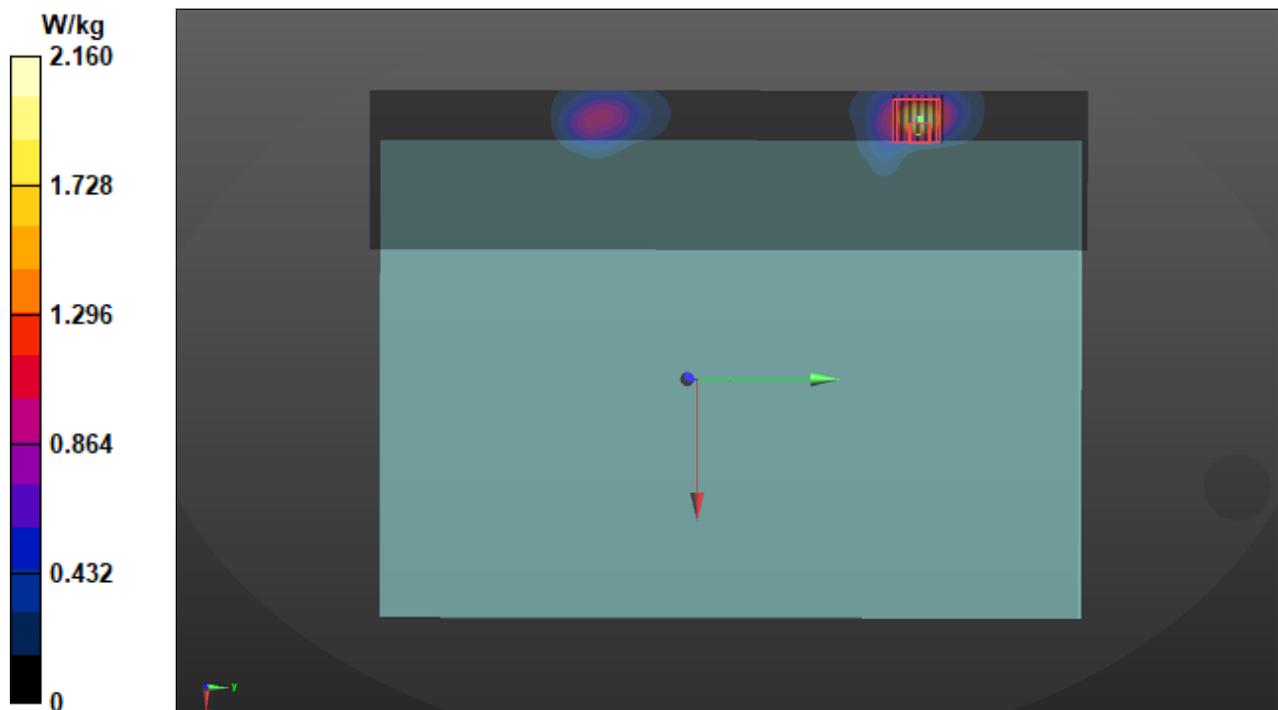
Peak SAR (extrapolated) = 2.84 W/kg

**SAR(1 g) = 0.789 W/kg; SAR(10 g) = 0.284 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 13 mm

Ratio of SAR at M2 to SAR at M1 = 64.6%

Maximum value of SAR (measured) = 1.77 W/kg



### P04\_WLAN5.8G\_802.11ac VHT80\_Bottom\_0mm\_Ch155\_Ant 0+1

**DUT: P21060042**

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency:

5775 MHz; Duty Cycle: 1:1.03

Medium: H34T60N1\_0622 Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.289$  S/m;  $\epsilon_r = 34.087$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7 °C; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7555; ConvF(5, 5, 5) @ 5775 MHz; Calibrated: 2020/09/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2020/09/15
- Phantom: Twin-ELI Phantom\_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (81x361x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.930 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 18.12 V/m; Power Drift = -0.11 dB

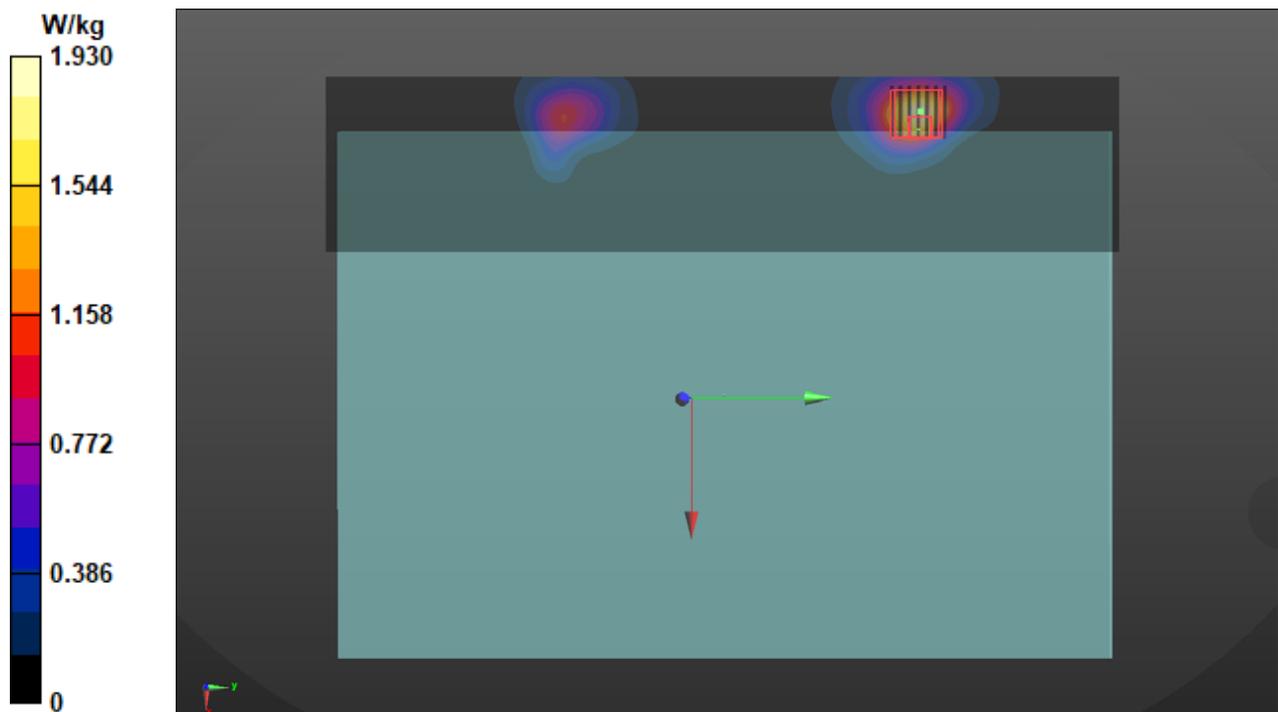
Peak SAR (extrapolated) = 3.55 W/kg

**SAR(1 g) = 0.905 W/kg; SAR(10 g) = 0.318 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 12.4 mm

Ratio of SAR at M2 to SAR at M1 = 62.8%

Maximum value of SAR (measured) = 2.12 W/kg



### P05\_BT\_BDR\_Bottom\_0mm\_Ch0\_Ant 1

**DUT: P21060042**

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5); Frequency: 2402 MHz; Duty Cycle: 1:1.31

Medium: H19T27N1\_0622 Medium parameters used (interpolated):  $f = 2402$  MHz;  $\sigma = 1.826$  S/m;  $\epsilon_r = 39.465$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7 °C; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7555; ConvF(7.59, 7.59, 7.59) @ 2402 MHz; Calibrated: 2020/09/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2020/09/15
- Phantom: Twin-ELI Phantom\_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Area Scan (71x301x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.136 W/kg

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

Reference Value = 8.884 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.333 W/kg

**SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.057 W/kg** (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 41%

Maximum value of SAR (measured) = 0.241 W/kg

