

Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 2022/1/3

**P01 SDR-2.4G\_20M\_Front Face\_0cm\_Ch Mid\_Ant0+3**

**DUT: EUT**

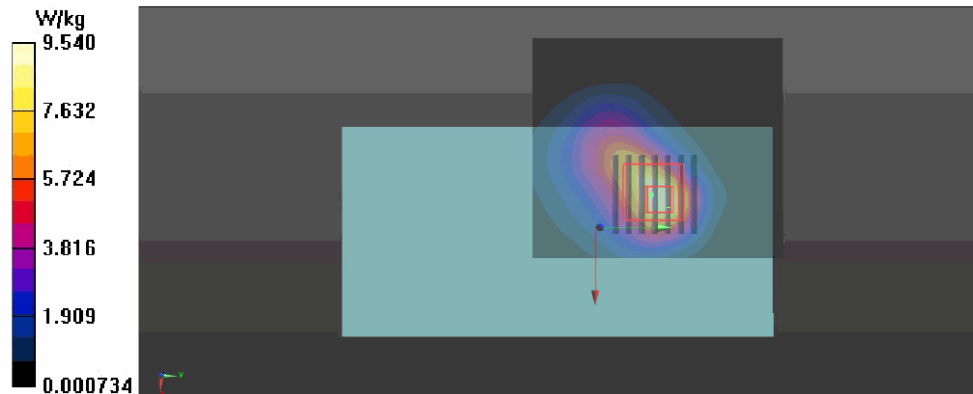
Communication System: SDR; Frequency: 2437.5 MHz; Duty Cycle: 1:1  
Medium: H2450 Medium parameters used:  $f = 2437.5$  MHz,  $\sigma = 1.862$  S/m,  $\epsilon_r = 38.18$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.8, 7.8, 7.8) @ 2437.5 MHz; Calibrated: 2021/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2021/5/20
- Phantom: ELI V8.0; Type: QD OVA 004 Ax; Serial: 2094
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x81x1)**: Interpolated grid: dx=1.200 mm, dy=1.200 mm  
Maximum value of SAR (interpolated) = 9.54 W/kg

- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 18.23 V/m; Power Drift = 0.49 dB  
Peak SAR (extrapolated) = 12.1 W/kg  
**SAR(1 g) = 5.75 W/kg; SAR(10 g) = 2.84 W/kg**  
Maximum value of SAR (measured) = 9.39 W/kg



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Date: 2021/12/29

**P02 SDR-5.2G\_40M\_Rear Face\_0cm\_Ch Low\_Ant0+3**

**DUT: EUT**

Communication System: SDR; Frequency: 5270 MHz; Duty Cycle: 1:1

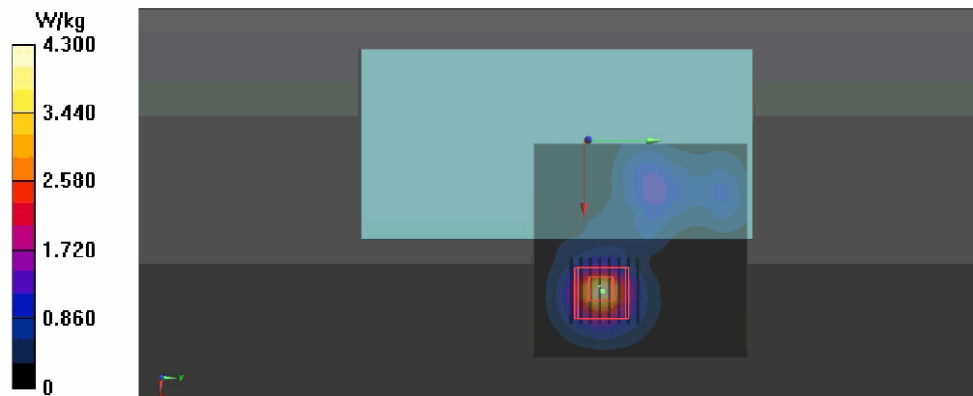
Medium: H5G Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.752$  S/m;  $\epsilon_r = 36.269$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7506; ConvF(5.39, 5.39, 5.39) @ 5270 MHz; Calibrated: 2021/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2021/5/20
- Phantom: ELI V8.0; Type: QD OVA 004 Ax; Serial: 2094
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 4.30 W/kg

- **Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 1.689 V/m; Power Drift = -0.08 dB  
Peak SAR (extrapolated) = 7.16 W/kg  
**SAR(1 g) = 1.9 W/kg; SAR(10 g) = 0.650 W/kg**  
Maximum value of SAR (measured) = 4.42 W/kg



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**P03 SDR-5.5G\_40M\_Rear Face\_0cm\_Ch High\_Ant2+1**

**DUT: EUT**

Communication System: SDR; Frequency: 5670 MHz; Duty Cycle: 1:1

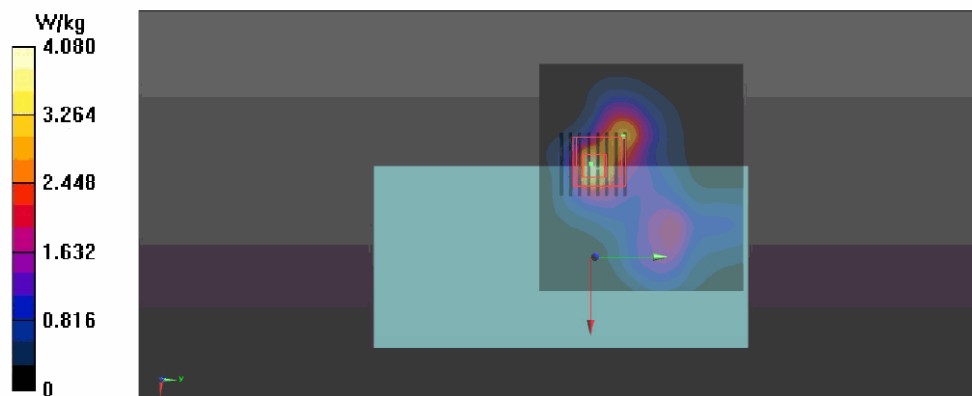
Medium: H5G Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.163$  S/m;  $\epsilon_r = 35.691$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.93, 4.93, 4.93) @ 5670 MHz; Calibrated: 2021/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2021/5/20
- Phantom: ELI V8.0; Type: QD OVA 004 Ax; Serial: 2094
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (101x91x1)**: Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 4.08 W/kg

- **Zoom Scan (8x8x7)/Cube 0**: Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm  
Reference Value = 2.820 V/m; Power Drift = 0.01 dB  
Peak SAR (extrapolated) = 7.33 W/kg  
**SAR(1 g) = 1.78 W/kg; SAR(10 g) = 0.636 W/kg**  
Maximum value of SAR (measured) = 4.20 W/kg



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Date: 2021/12/31

**P04 SDR-5.8G\_20M\_Rear Face\_0cm\_Ch High\_Ant2+1**

**DUT: EUT**

Communication System: SDR; Frequency: 5839.5 MHz; Duty Cycle: 1:1

Medium: H5G Medium parameters used:  $f = 5840$  MHz;  $\sigma = 5.348$  S/m;  $\epsilon_r = 35.441$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.95, 4.95, 4.95) @ 5839.5 MHz; Calibrated: 2021/5/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2021/5/20
- Phantom: ELI V8.0; Type: QD OVA 004 Ax; Serial: 2094
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (101x91x1)**: Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 13.8 W/kg

- **Zoom Scan (8x8x7)/Cube 0**: Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm  
Reference Value = 8.741 V/m; Power Drift = -0.03 dB  
Peak SAR (extrapolated) = 25.7 W/kg  
**SAR(1 g) = 5.98 W/kg; SAR(10 g) = 2.08 W/kg**  
Maximum value of SAR (measured) = 14.0 W/kg

