

Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 2021/3/18

P02 802.11n_HT40_Right Side_0cm_Ch54_Sample 1

DUT: EUT

Communication System: 802.11n; Frequency: 5270 MHz; Duty Cycle: 1:1

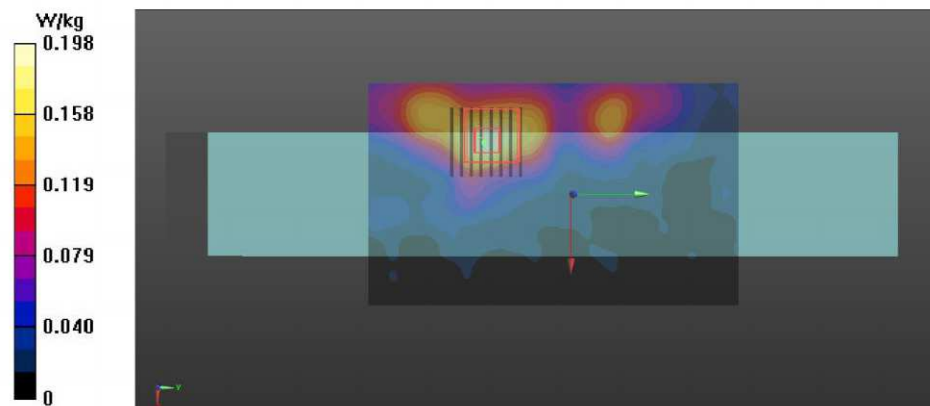
Medium: H5G Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 4.752 \text{ S/m}$; $\epsilon_r = 36.269$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.34, 5.34, 5.34) @ 5270 MHz; Calibrated: 2020/5/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2020/5/27
- 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 (91x151x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.198 W/kg

- Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 0 V/m ; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.337 W/kg
SAR(1 g) = 0.073 W/kg ; SAR(10 g) = 0.028 W/kg
Maximum value of SAR (measured) = 0.182 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

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P03 802.11a_Right Side_0cm_Ch116_Sample 1

DUT: EUT

Communication System: 802.11a; Frequency: 5580 MHz; Duty Cycle: 1:1

Medium: H5G Medium parameters used: $f = 5580$ MHz; $\sigma = 5.071$ S/m; $\epsilon_r = 35.811$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.88, 4.88, 4.88) @ 5580 MHz; Calibrated: 2020/5/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2020/5/27
- 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 (91x151x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.423 W/kg

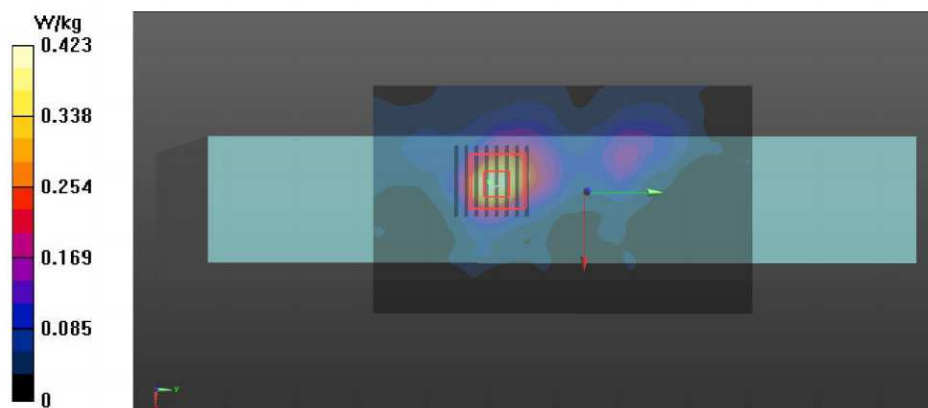
- Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 3.238 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.653 W/kg

SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.052 W/kg

Maximum value of SAR (measured) = 0.387 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 2021/3/20

P04 802.11a_Right Side_0cm_Ch157_Sample 1

DUT: EUT

Communication System: 802.11a; Frequency: 5785 MHz; Duty Cycle: 1:1

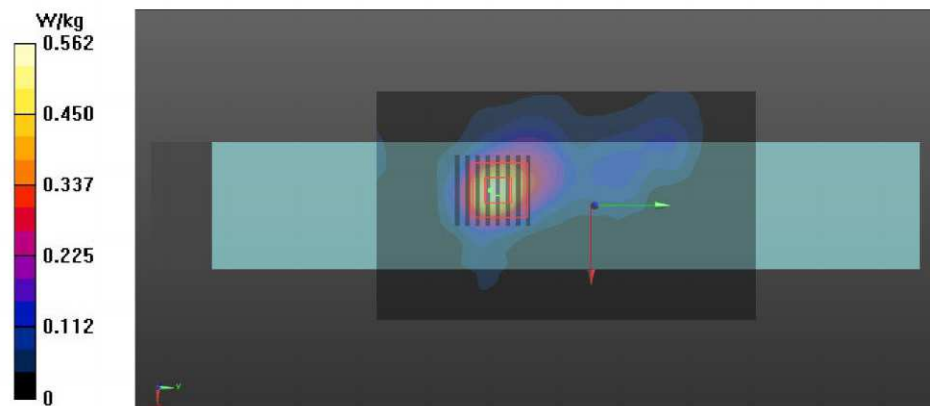
Medium: H5G Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 5.286 \text{ S/m}$; $\epsilon_r = 35.523$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.94, 4.94, 4.94) @ 5785 MHz; Calibrated: 2020/5/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2020/5/27
- 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 (91x151x1):** Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.562 W/kg

- **Zoom Scan (8x8x7)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 3.804 V/m ; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.944 W/kg
SAR(1 g) = 0.196 W/kg ; SAR(10 g) = 0.070 W/kg
Maximum value of SAR (measured) = 0.496 W/kg



Test Laboratory: TÜV Rheinland IoT Excellence Center

Date: 2021/7/19

P05_BT_GFSK_Right Side_0cm_Ch0_Sample 1

DUT: EUT

Communication System: BT; Frequency: 2402 MHz; Duty Cycle: 1:1

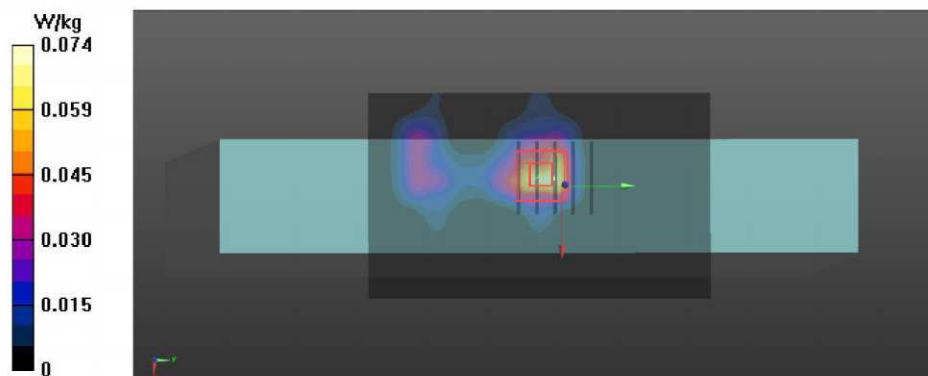
Medium: H2450 Medium parameters used: $f = 2402$ MHz; $\sigma = 1.787$ S/m; $\epsilon_r = 38.003$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.8, 7.8, 7.8) @ 2402 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 (71x121x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.0743 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 4.219 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.0530 W/kg
SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.011 W/kg
Maximum value of SAR (measured) = 0.0429 W/kg



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P07 802.11n_HT40_Rear Face_0cm_Ch54_Sample 2

DUT: EUT

Communication System: 802.11n; Frequency: 5270 MHz; Duty Cycle: 1:1

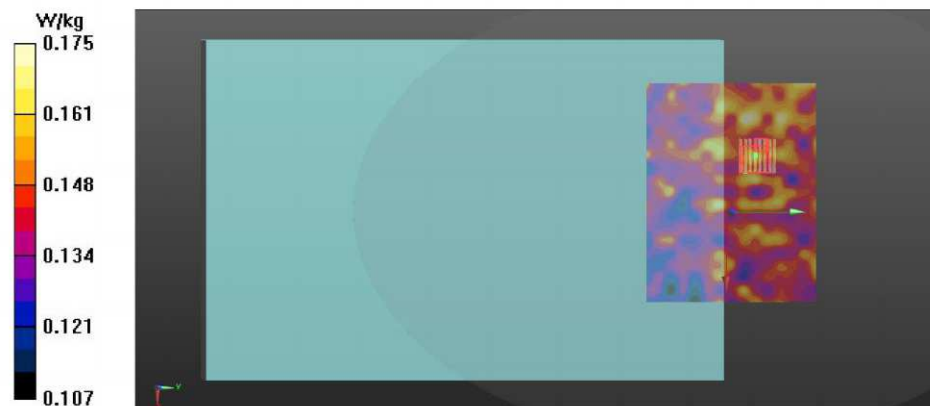
Medium: H5G Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 4.752 \text{ S/m}$; $\epsilon_r = 36.269$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(5.34, 5.34, 5.34) @ 5270 MHz; Calibrated: 2020/5/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2020/5/27
- 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 (181x141x1):** Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.175 W/kg

- **Zoom Scan (8x8x7)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 5.234 V/m ; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.198 W/kg
SAR(1 g) = 0.177 W/kg ; SAR(10 g) = 0.169 W/kg
Maximum value of SAR (measured) = 0.198 W/kg



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P08 802.11a_Rear Face_0cm_Ch116_Sample 2

DUT: EUT

Communication System: 802.11a ; Frequency: 5580 MHz;Duty Cycle: 1:1

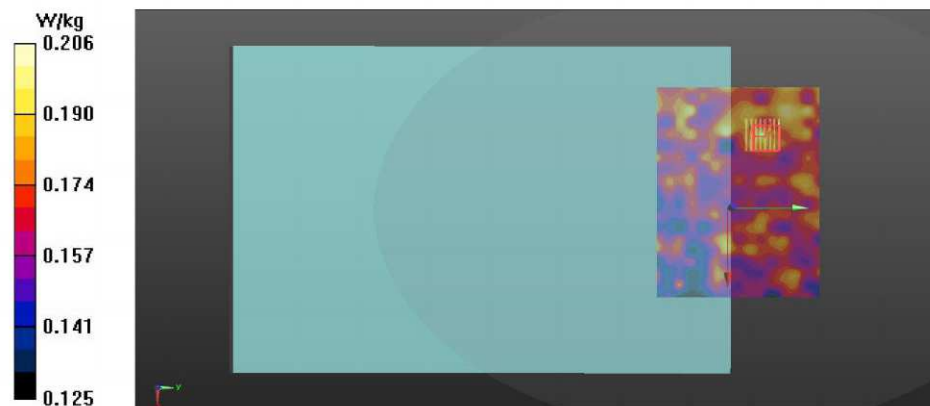
Medium: H5G Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.071 \text{ S/m}$; $\epsilon_r = 35.811$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.88, 4.88, 4.88) @ 5580 MHz; Calibrated: 2020/5/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2020/5/27
- 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 (181x141x1):** Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.206 W/kg

- **Zoom Scan (8x8x7)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 6.084 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.279 W/kg
SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.200 W/kg
Maximum value of SAR (measured) = 0.254 W/kg



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P09 802.11a_Rear Face_0cm_Ch157_Sample 2

DUT: EUT

Communication System: 802.11a; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium: H5G Medium parameters used: $f = 5785 \text{ MHz}$; $\sigma = 5.286 \text{ S/m}$; $\epsilon_r = 35.523$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(4.94, 4.94, 4.94) @ 5785 MHz; Calibrated: 2020/5/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1557; Calibrated: 2020/5/27
- 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 (151x151x1):** Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.170 W/kg

- **Zoom Scan (8x8x7)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 4.502 V/m ; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.206 W/kg
SAR(1 g) = 0.173 W/kg ; SAR(10 g) = 0.164 W/kg
Maximum value of SAR (measured) = 0.206 W/kg



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Date: 2021/7/19

P10 BT_GFSK_Right Side_0cm_Ch0_Sample 2

DUT: EUT

Communication System: BT; Frequency: 2402 MHz; Duty Cycle: 1:1

Medium: H2450 Medium parameters used: $f = 2402$ MHz; $\sigma = 1.787$ S/m; $\epsilon_r = 38.003$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7506; ConvF(7.8, 7.8, 7.8) @ 2402 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 (71x121x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
Maximum value of SAR (interpolated) = 0.0897 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 5.807 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.106 W/kg
SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.046 W/kg
Maximum value of SAR (measured) = 0.0853 W/kg

