

Appendix B - SAR Measurement

Test Laboratory: TUV Inc.

Date: 2026/7/13

02_WLAN2.4GHz_802.11b 1Mbps_Back_0mm_Ch6_Ant 1

DUT: KWC-B31

Communication System: UID 0, WiFi (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450_260713 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.801$ S/m; $\epsilon_r =$

39.962 ; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2026/4/20
- Probe: EX3DV4 - SN7400; ConvF(6.98, 6.88, 8.06) @ 2437 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -59.0, 31.0$
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1153
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (10x10x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.148 W/kg

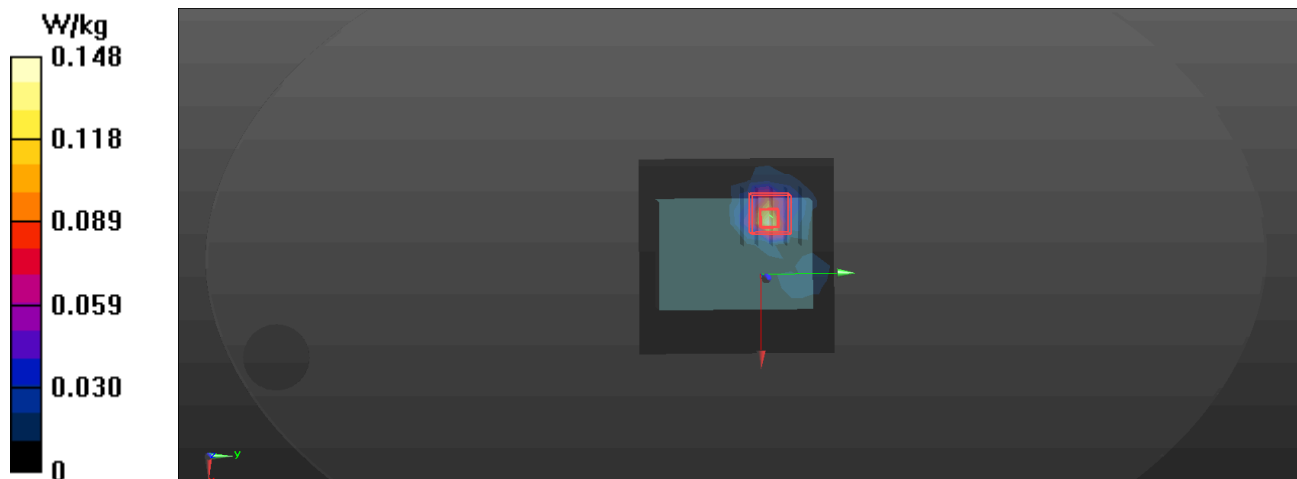
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 1.116 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.228 W/kg

SAR(1 g) = 0.091 W/kg; SAR(10 g) = 0.035 W/kg

Maximum value of SAR (measured) = 0.156 W/kg



19_WLAN5GHz_802.11a 6Mbps_Right Side_0mm_Ch36_Ant 1**DUT: KWC-B31**

Communication System: UID 0, 01 WLAN (0); Frequency: 5180 MHz; Duty Cycle: 1:1

Medium: HSL5G_260714 Medium parameters used: $f = 5180$ MHz; $\sigma = 4.481$ S/m; $\epsilon_r = 36.011$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.2°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2026/4/20
- Probe: EX3DV4 - SN7400; ConvF(5.27, 5.2, 6.09) @ 5180 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -59.0, 23.0$
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1153
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (7x11x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 3.09 W/kg

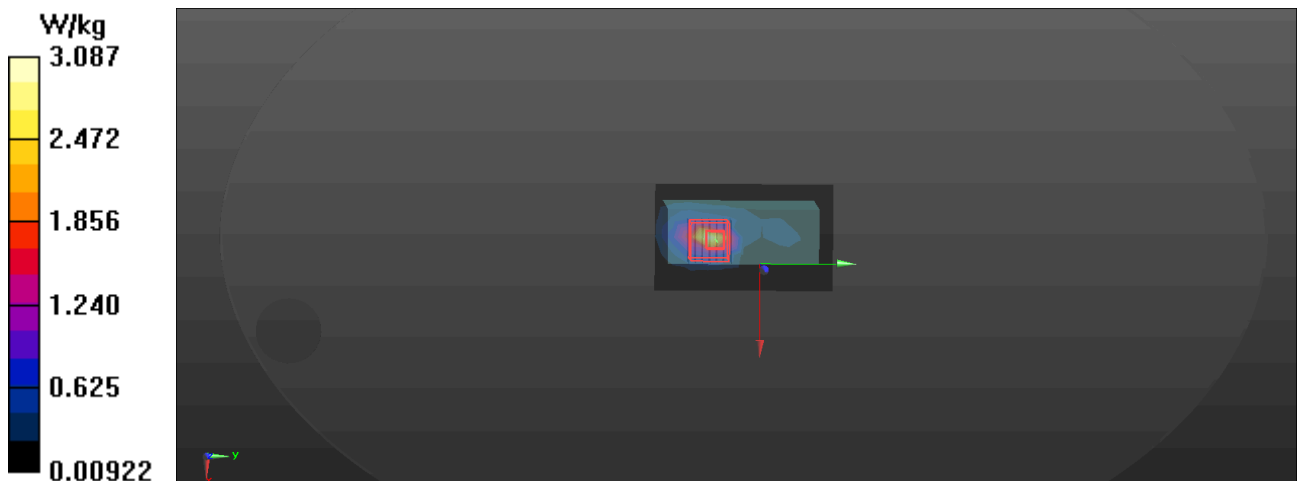
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 9.115 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 6.85 W/kg

SAR(1 g) = 1.47 W/kg; SAR(10 g) = 0.421 W/kg

Maximum value of SAR (measured) = 4.09 W/kg



24_WLAN5GHz_802.11a 6Mbps_Right Side_0mm_Ch52_Ant 1**DUT: KWC-B31**

Communication System: UID 0, 01 WLAN (0); Frequency: 5260 MHz; Duty Cycle: 1:1

Medium: HSL5G_260714 Medium parameters used: $f = 5260$ MHz; $\sigma = 4.571$ S/m; $\epsilon_r = 35.865$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.2°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2026/4/20
- Probe: EX3DV4 - SN7400; ConvF(5.27, 5.2, 6.09) @ 5260 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -59.0, 23.0$
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1153
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (7x11x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 2.58 W/kg

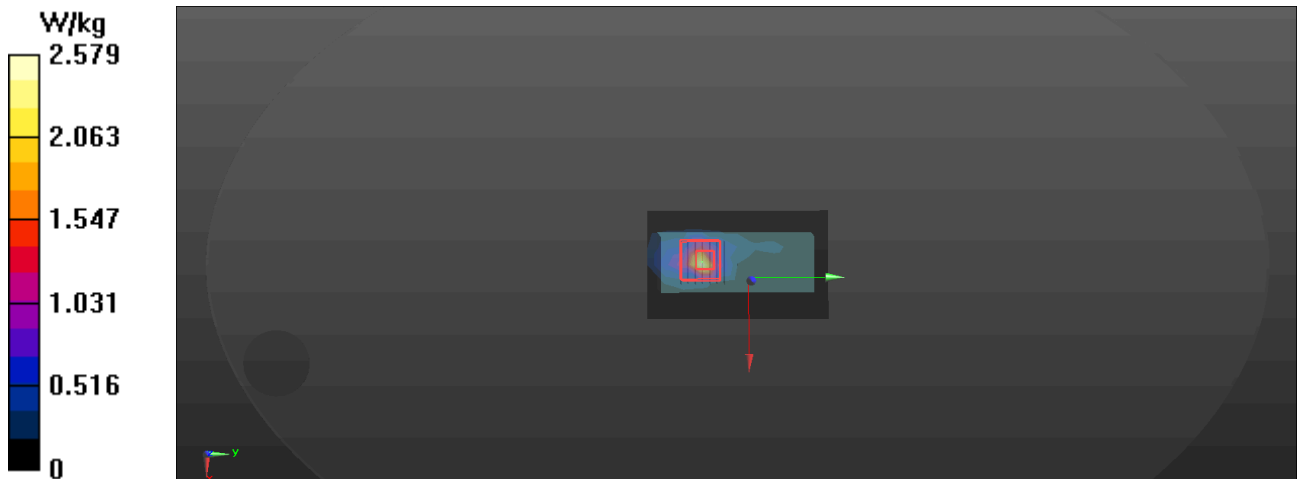
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 6.542 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 5.84 W/kg

SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.324 W/kg

Maximum value of SAR (measured) = 3.11 W/kg



36_WLAN5GHz_802.11a 6Mbps_Right Side_0mm_Ch120_Ant 1**DUT: KWC-B31**

Communication System: UID 0, 01 WLAN (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL5G_260811 Medium parameters used: $f = 5600$ MHz; $\sigma = 4.956$ S/m; $\epsilon_r = 34.852$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.4°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2026/4/20
- Probe: EX3DV4 - SN7400; ConvF(4.67, 4.61, 5.39) @ 5600 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -59.0, 23.0$
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1153
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (7x11x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 2.42 W/kg

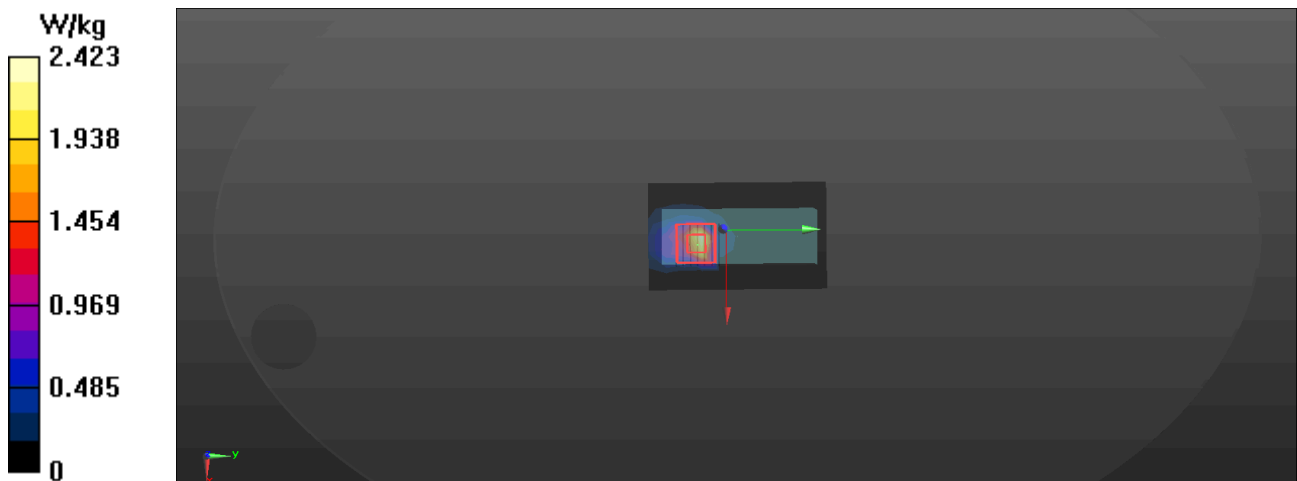
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 5.786 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 7.31 W/kg

SAR(1 g) = 1.35 W/kg; SAR(10 g) = 0.348 W/kg

Maximum value of SAR (measured) = 3.97 W/kg



40_WLAN5GHz_802.11a 6Mbps_Right Side_0mm_Ch165_Ant 1**DUT: KWC-B31**

Communication System: UID 0, 01 WLAN (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium: HSL5G_260811 Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 5.213$ S/m; $\epsilon_r =$

34.449; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.4°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2026/4/20
- Probe: EX3DV4 - SN7400; ConvF(4.73, 4.67, 5.47) @ 5825 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -59.0, 23.0$
- Phantom: ELI V5.0 (20deg probe tilt); Type: QD OVA 002 AA; Serial: 1153
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (7x11x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.38 W/kg

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

Reference Value = 1.049 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.57 W/kg

SAR(1 g) = 0.589 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 1.66 W/kg

