

Appendix B - SAR Measurement

Test Laboratory: TUV Inc.

Date: 2026/8/31

14_LTE Band 2_20M_QPSK_50_0_Right Side_0mm_Ch19100

DUT: KWC-B51

Communication System: UID 0, 04 LTE FDD (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900_260831 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.465$ S/m; $\epsilon_r = 40.843$; $\rho = 1000$ 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(7.35, 7.25, 8.49) @ 1900 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -24.0, 31.0$
- 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 (5x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.07 W/kg

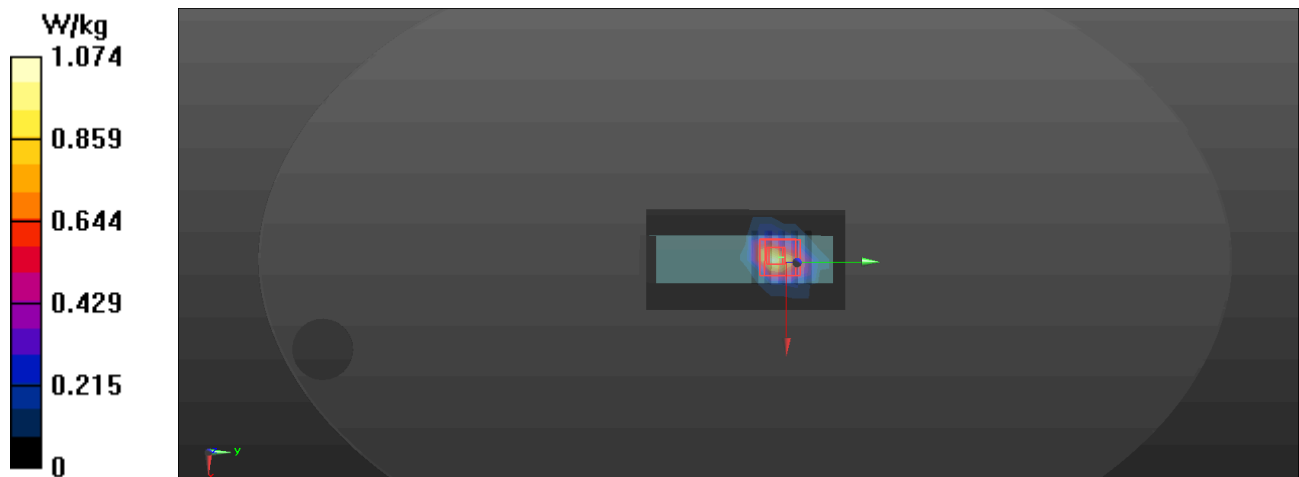
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.27 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.743 W/kg; SAR(10 g) = 0.363 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



181_LTE Band 5_10M_QPSK_25_0_Bottom Side_0mm_Ch20525**DUT: KWC-B51**

Communication System: UID 0, 04 LTE FDD (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: HSL835_260917 Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.946$ S/m; $\epsilon_r =$

43.133; $\rho = 1000$ 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(8.71, 8.6, 10.07) @ 836.5 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -24.0, 31.0$
- 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 (5x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.643 W/kg

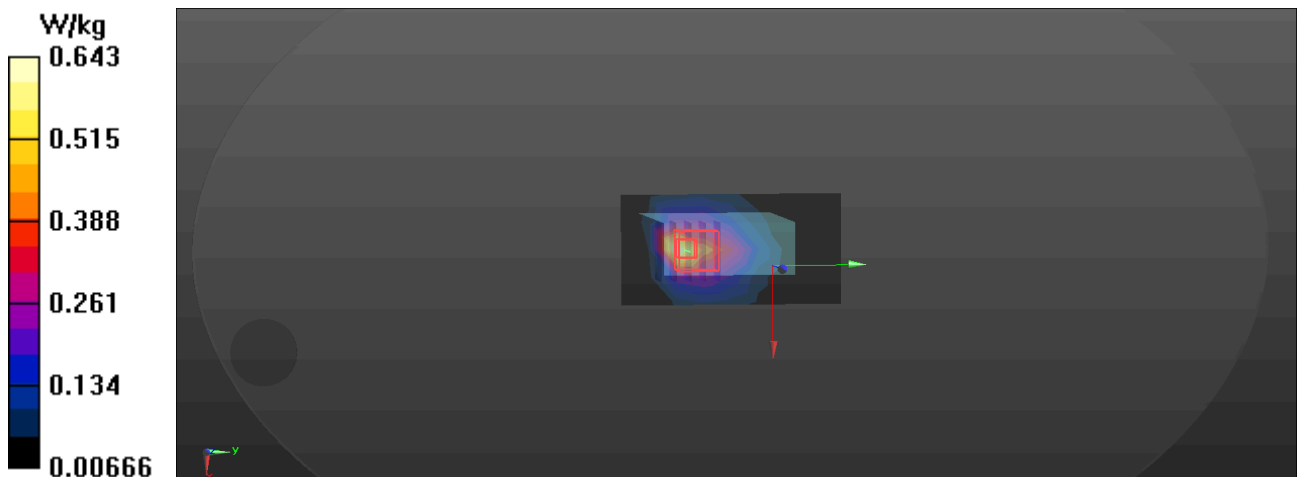
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 20.33 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.400 W/kg; SAR(10 g) = 0.239 W/kg

Maximum value of SAR (measured) = 0.614 W/kg



30_LTE Band 7_20M_QPSK_1_0_Right Side_0mm_Ch21350**DUT: KWC-B51**

Communication System: UID 0, 04 LTE FDD (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL2600_260831 Medium parameters used: $f = 2560$ MHz; $\sigma = 1.897$ S/m; $\epsilon_r = 39.735$; $\rho = 1000$ 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(6.87, 6.78, 7.95) @ 2560 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -24.0, 31.0$
- 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 (6x11x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.181 W/kg

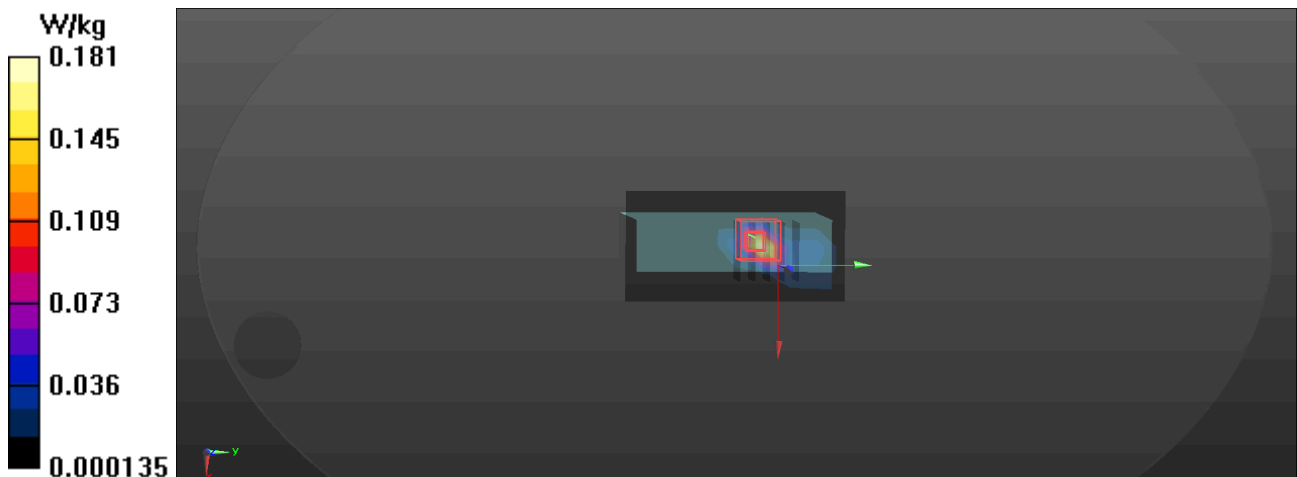
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.189 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.047 W/kg

Maximum value of SAR (measured) = 0.208 W/kg



37_LTE Band 12_10M_QPSK_1_0_ Right Side_0mm_Ch23095**DUT: KWC-B51**

Communication System: UID 0, 04 LTE FDD (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: HSL750_260916 Medium parameters used: $f = 708$ MHz; $\sigma = 0.897$ S/m; $\epsilon_r = 43.354$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.3 °C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2026/4/20
- Probe: EX3DV4 - SN7400; ConvF(9.14, 9.02, 10.56) @ 707.5 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -24.0, 31.0$
- 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 (5x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.797 W/kg

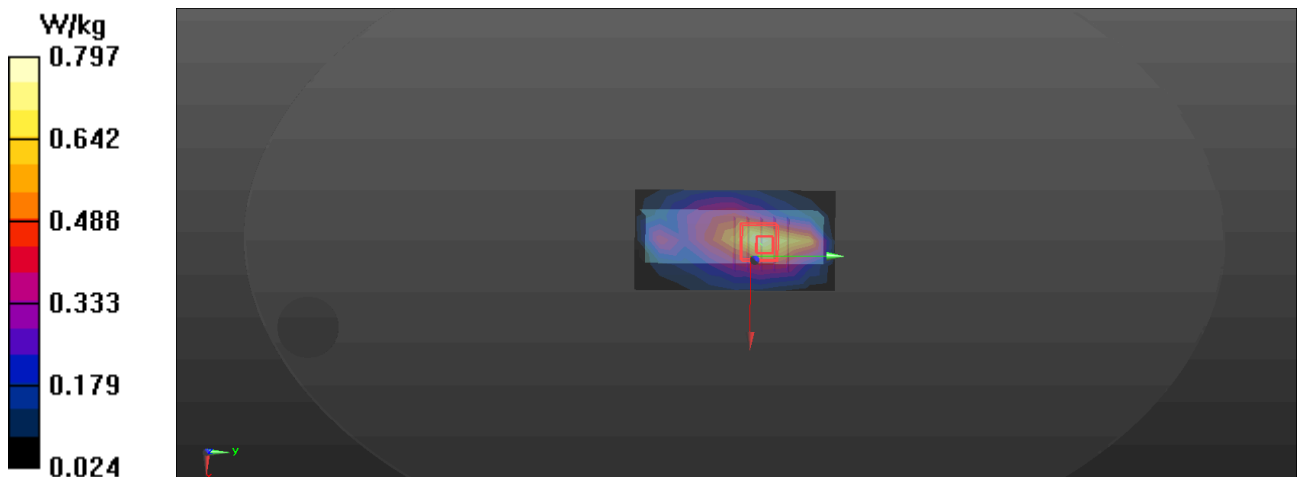
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 26.55 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.375 W/kg

Maximum value of SAR (measured) = 0.856 W/kg



50_LTE Band 13_10M_QPSK_1_0_ Right Side_0mm_Ch23230**DUT: KWC-B51**

Communication System: UID 0, 04 LTE FDD (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750_260916 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.923 \text{ S/m}$; $\epsilon_r = 43.142$; $\rho = 1000$

kg/m^3

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.3 °C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2026/4/20
- Probe: EX3DV4 - SN7400; ConvF(9.14, 9.02, 10.56) @ 782 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -24.0, 31.0$
- 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 (5x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.879 W/kg

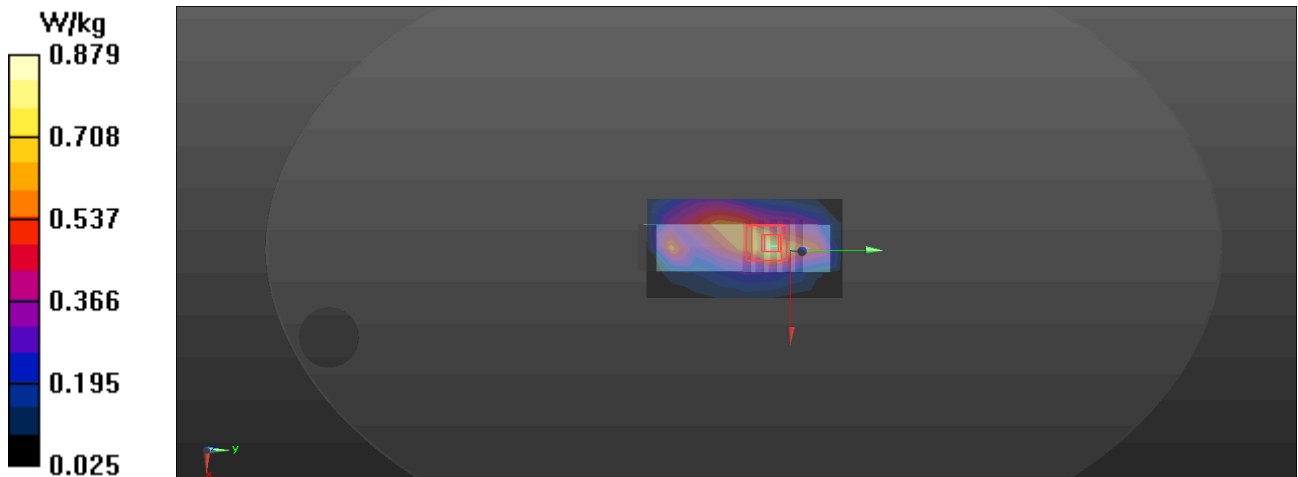
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.99 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.616 W/kg; SAR(10 g) = 0.374 W/kg

Maximum value of SAR (measured) = 0.921 W/kg



86_LTE Band 66_20M_QPSK_1_0_Right Side_0mm_Ch132572**DUT: KWC-B51**

Communication System: UID 0, 04 LTE FDD (0); Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: HSL1750_260916 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.392$ S/m; $\epsilon_r = 40.956$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.5°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2026/4/20
- Probe: EX3DV4 - SN7400; ConvF(7.45, 7.35, 8.61) @ 1770 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -24.0, 31.0$
- 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 (5x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.46 W/kg

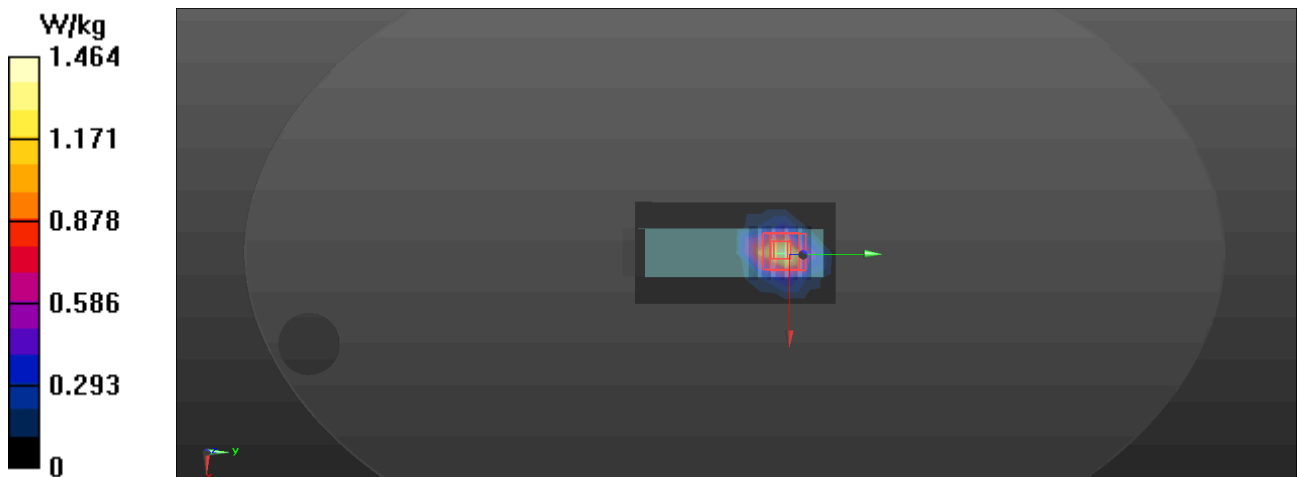
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.391 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.556 W/kg

Maximum value of SAR (measured) = 1.70 W/kg



109_WLAN2.4G_802.11b 1Mbps_ Left Side_0mm_Ch6**DUT: KWC-B51**

Communication System: UID 0, 01 WLAN (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450_260918 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.8$ S/m; $\epsilon_r = 39.96$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.2°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), $z = -24.0, 31.0$
- 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 (6x13x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.934 W/kg

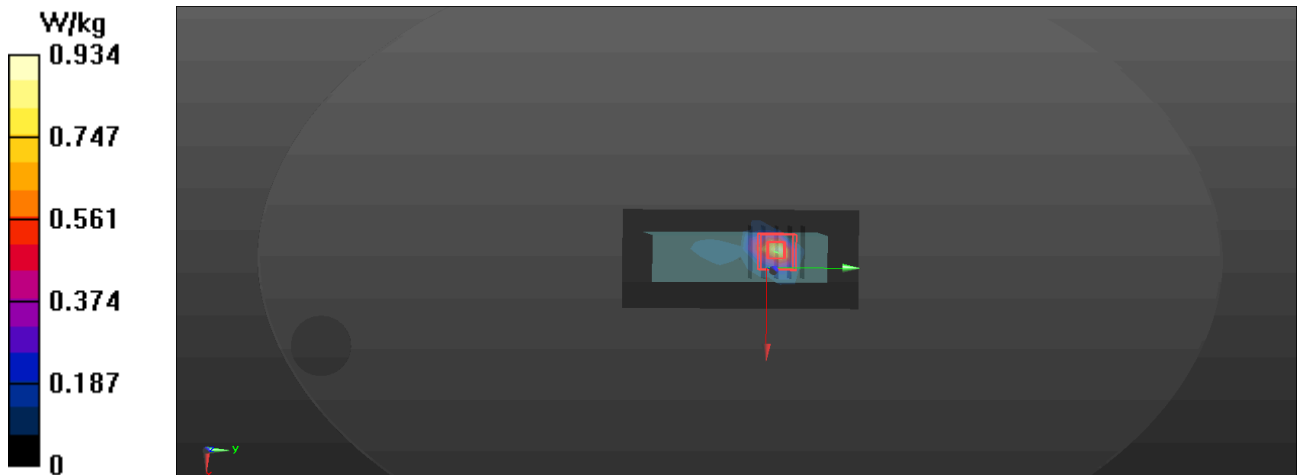
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.848 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.207 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



121_WLAN5G_802.11a 6Mbps_Left Side_0mm_Ch48**DUT: KWC-B51**

Communication System: UID 0, 01 WLAN (0); Frequency: 5240 MHz; Duty Cycle: 1:1.26009

Medium: HSL5G_260921 Medium parameters used: $f = 5240$ MHz; $\sigma = 4.527$ S/m; $\epsilon_r = 35.33$; $\rho = 1000$ 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(5.27, 5.2, 6.09) @ 5240 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -24.0, 23.0$
- 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 (9x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.811 W/kg

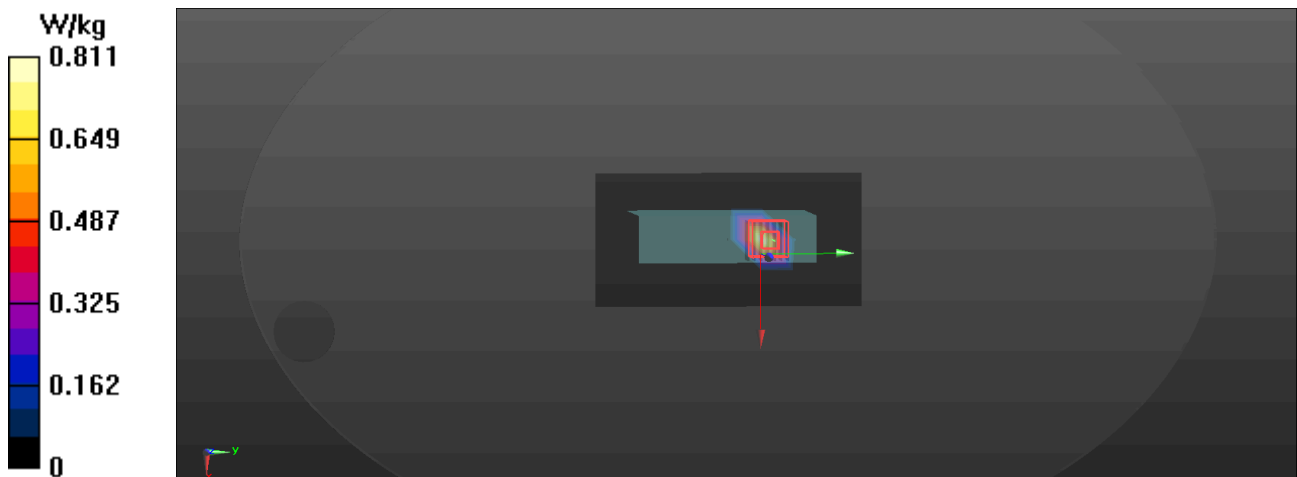
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 0 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.43 W/kg

SAR(1 g) = 0.549 W/kg; SAR(10 g) = 0.130 W/kg

Maximum value of SAR (measured) = 1.50 W/kg



129_WLAN5G_802.11a 6Mbps_Left Side_0mm_Ch64**DUT: KWC-B51**

Communication System: UID 0, 01 WLAN (0); Frequency: 5320 MHz; Duty Cycle: 1:1

Medium: HSL5G_260921 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.617$ S/m; $\epsilon_r = 35.194$; $\rho = 1000$ 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(5.27, 5.2, 6.09) @ 5320 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -24.0, 23.0$
- 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 (9x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.838 W/kg

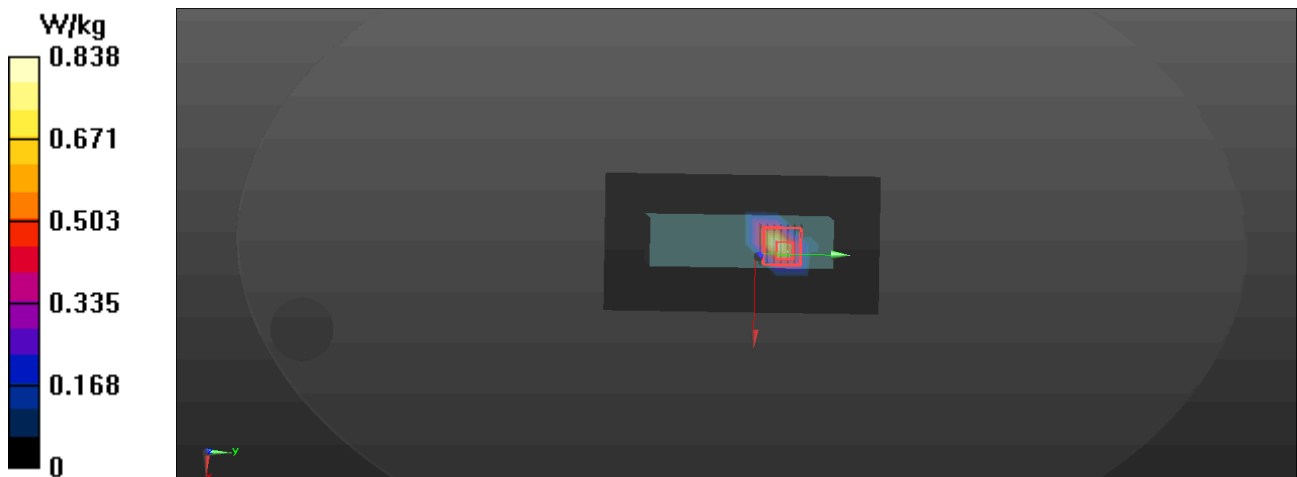
Configuration///Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 0 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 2.60 W/kg

SAR(1 g) = 0.560 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 1.54 W/kg



137_WLAN5G_802.11a 6Mbps_Left Side_0mm_Ch100**DUT: KWC-B51**

Communication System: UID 0, 01 WLAN (0); Frequency: 5500 MHz; Duty Cycle: 1:1

Medium: HSL5G_260921 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.811$ S/m; $\epsilon_r = 34.881$; $\rho = 1000$ 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) @ 5500 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -24.0, 23.0$
- 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 (9x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.910 W/kg

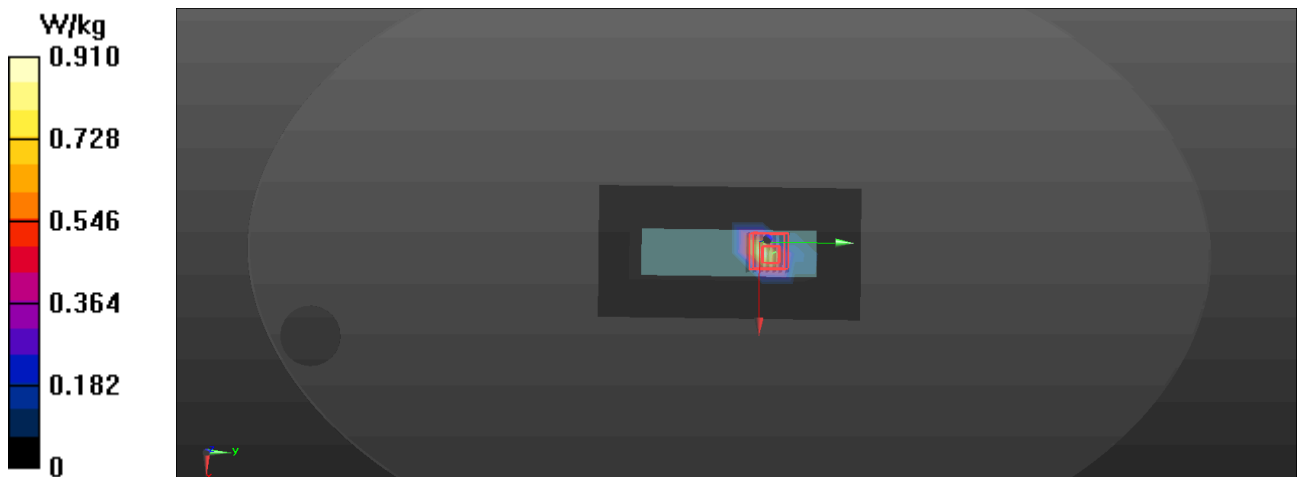
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 0 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.60 W/kg

SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.117 W/kg

Maximum value of SAR (measured) = 1.34 W/kg



145_WLAN5G_802.11a 6Mbps_Left Side_0mm_Ch165**DUT: KWC-B51**

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

Medium: HSL5G_260921 Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 5.182$ S/m; $\epsilon_r =$

34.298; $\rho = 1000$ 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), $z = -24.0, 23.0$
- 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 (9x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.12 W/kg

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

Reference Value = 0 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 0.608 W/kg; SAR(10 g) = 0.150 W/kg

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

