

Appendix B - SAR Measurement

Test Laboratory: TUV Inc.

Date: 2026/5/5

02_WLAN2.4GHz_802.11b 1Mbps_Horizontal Down_5mm_Ch6

DUT: AP-3003E

Communication System: UID 0, 01 WLAN (0); Frequency: 2437 MHz; Duty Cycle: 1:1.26067

Medium: HSL2.4G_260505 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.8$ S/m; $\epsilon_r = 39.96$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6°C

DASY Configuration:

- Electronics: DAE4 Sn1356; Calibrated: 2025/12/9
- Probe: EX3DV4 - SN3898; ConvF(6.92, 7.3, 6.61) @ 2437 MHz; Calibrated: 2025/9/9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -19.0, 23.0$
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: S/N: 1806
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x10x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

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

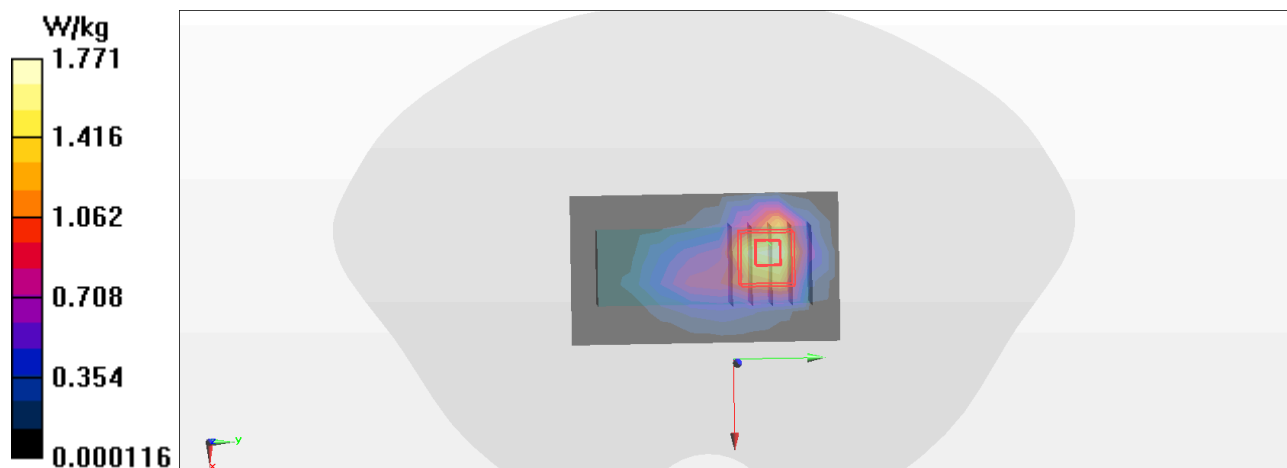
Zoom Scan (5x5x5)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 22.16 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.92 W/kg

SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.655 W/kg

Maximum value of SAR (measured) = 2.21 W/kg



13_WLAN2.4GHz_802.11g 6Mbps_Horizontal Down_5mm_Ch6**DUT: AP-3003E**

Communication System: UID 0, 01 WLAN (0); Frequency: 2437 MHz; Duty Cycle: 1:1.26503

Medium: HSL2.4G_260505 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.8$ S/m; $\epsilon_r = 39.96$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6°C

DASY Configuration:

- Electronics: DAE4 Sn1356; Calibrated: 2025/12/9
- Probe: EX3DV4 - SN3898; ConvF(6.92, 7.3, 6.61) @ 2437 MHz; Calibrated: 2025/9/9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -19.0, 23.0$
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: S/N: 1806
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (6x10x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 1.69 W/kg

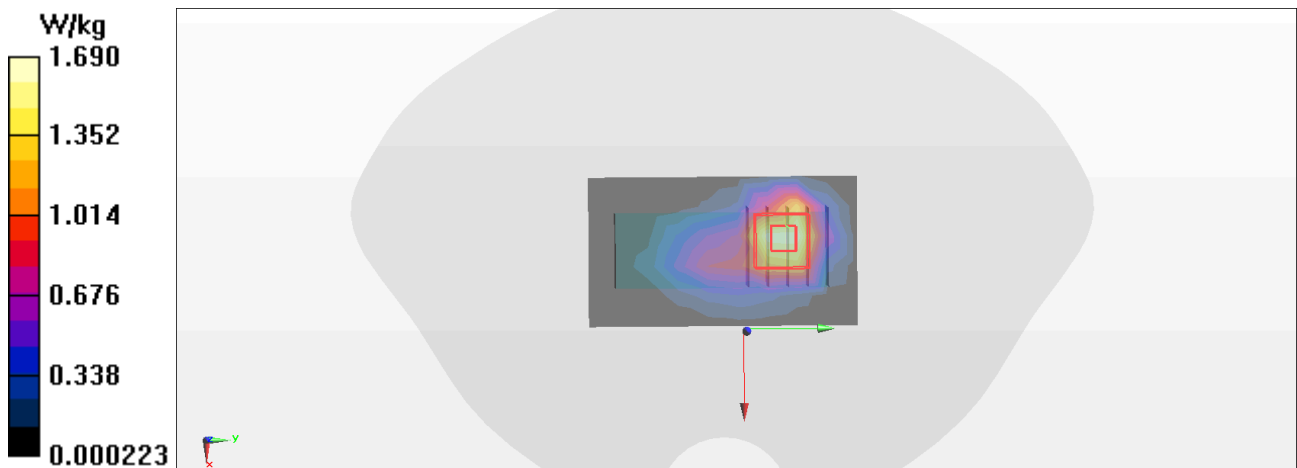
Zoom Scan (5x5x5)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 22.84 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 2.87 W/kg

SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.660 W/kg

Maximum value of SAR (measured) = 2.19 W/kg



18_WLAN5GHz_802.11ax-HE40 MCS0_Horizontal Down_5mm_Ch46

DUT: AP-3003E

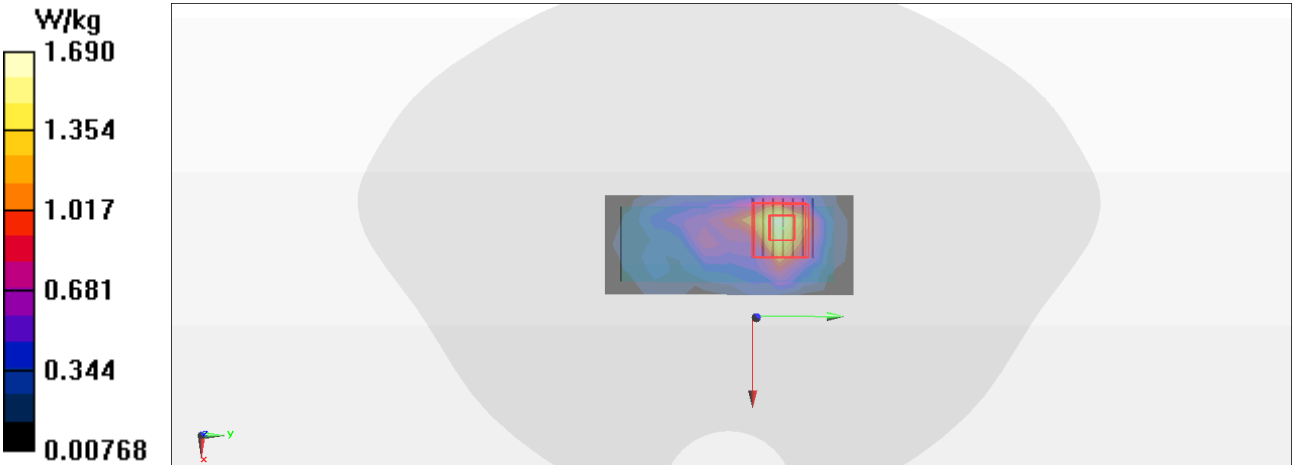
Communication System: UID 0, 01 WLAN (0); Frequency: 5230 MHz; Duty Cycle: 1:1.27233
Medium: HSL5G_260506 Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.545 \text{ S/m}$; $\epsilon_r = 35.505$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : 23.6 °C;Liquid Temperature : 22.5°C

DASY Configuration:

- Electronics: DAE4 Sn1356; Calibrated: 2025/12/9
- Probe: EX3DV4 - SN3898; ConvF(5.38, 5.68, 5.14) @ 5230 MHz; Calibrated: 2025/9/9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -19.0, 23.0$
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: S/N: 1806
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (5x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 1.69 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 13.00 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 3.23 W/kg
SAR(1 g) = 0.789 W/kg; SAR(10 g) = 0.285 W/kg
Maximum value of SAR (measured) = 1.86 W/kg



30_WLAN5GHz_802.11a 6Mbps_Horizontal Down_5mm_Ch64**DUT: AP-3003E**

Communication System: UID 0, 01 WLAN (0); Frequency: 5320 MHz; Duty Cycle: 1:1.26503

Medium: HSL5G_260506 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.645$ S/m; $\epsilon_r = 35.362$; $\rho = 1000$

kg/m³

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.5°C

DASY Configuration:

- Electronics: DAE4 Sn1356; Calibrated: 2025/12/9
- Probe: EX3DV4 - SN3898; ConvF(5.38, 5.68, 5.14) @ 5320 MHz; Calibrated: 2025/9/9
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -19.0, 23.0$
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: S/N: 1806
- 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) = 2.01 W/kg

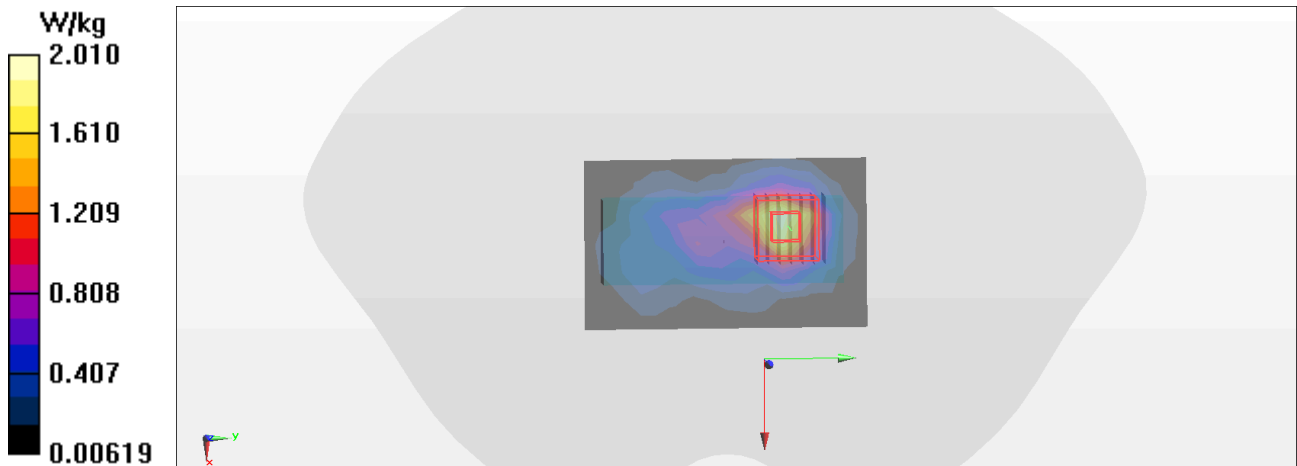
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 13.09 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 4.11 W/kg

SAR(1 g) = 0.980 W/kg; SAR(10 g) = 0.351 W/kg

Maximum value of SAR (measured) = 2.33 W/kg



37_WLAN5GHz_802.11a 6Mbps_Horizontal Down_5mm_Ch132

DUT: AP-3003E

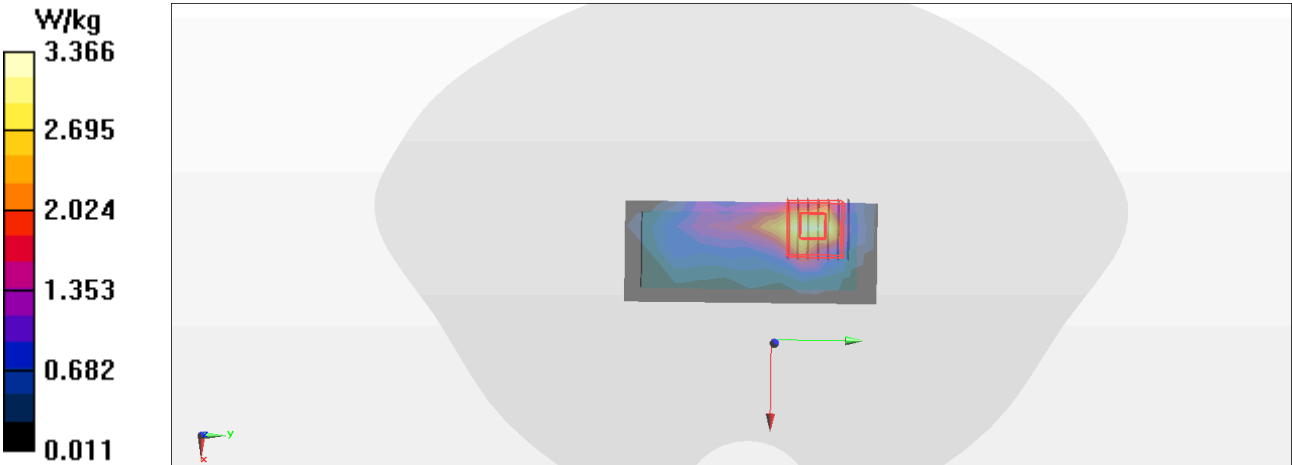
Communication System: UID 0, 01 WLAN (0); Frequency: 5660 MHz; Duty Cycle: 1:1.26503
Medium: HSL5G_260508 Medium parameters used: $f = 5660\text{ MHz}$; $\sigma = 5.023\text{ S/m}$; $\epsilon_r = 35.14$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature : 23.4 °C;Liquid Temperature : 22.3°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2026/4/20
- Probe: EX3DV4 - SN7400; ConvF(4.67, 4.61, 5.39) @ 5660 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -19.0, 23.0$
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: S/N: 1806
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (5x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 3.37 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 13.24 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 6.94 W/kg
SAR(1 g) = 1.49 W/kg; SAR(10 g) = 0.533 W/kg
Maximum value of SAR (measured) = 3.56 W/kg



41_WLAN5GHz_802.11a 6Mbps_Horizontal Down_5mm_Ch157

DUT: AP-3003E

Communication System: UID 0, 01 WLAN (0); Frequency: 5785 MHz; Duty Cycle: 1:1.26503
Medium: HSL5G_260508 Medium parameters used (interpolated): $f = 5785\text{ MHz}$; $\sigma = 5.166\text{ S/m}$; $\epsilon_r = 34.912$; $\rho = 1000\text{ kg/m}^3$
Ambient Temperature : 23.4 °C;Liquid Temperature : 22.3°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2026/4/20
- Probe: EX3DV4 - SN7400; ConvF(4.73, 4.67, 5.47) @ 5785 MHz; Calibrated: 2026/4/23
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -19.0, 23.0$
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: S/N: 1806
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Area Scan (5x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (measured) = 3.25 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
Reference Value = 11.77 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 7.14 W/kg
SAR(1 g) = 1.46 W/kg; SAR(10 g) = 0.504 W/kg
Maximum value of SAR (measured) = 3.61 W/kg

