

Appendix B - SAR Measurement

Test Laboratory: TUV Inc.

Date: 2025/7/30

01_WLAN5GHz_802.11ax-HE20 MCS0_Front Face_0mm_Freq5200

DUT: M12RT

Communication System: WLAN; Frequency: 5200 MHz; Duty Cycle: 1:1.178

Medium: HSL5G_250730 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.544$ S/m; $\epsilon_r = 35.522$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.4°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2025/4/23
- Probe: EX3DV4 - SN7400; ConvF(5.5, 4.91, 5.68) @ 5200 MHz; Calibrated: 2025/5/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -44.0, 23.0$
- 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 (15x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.220 W/kg

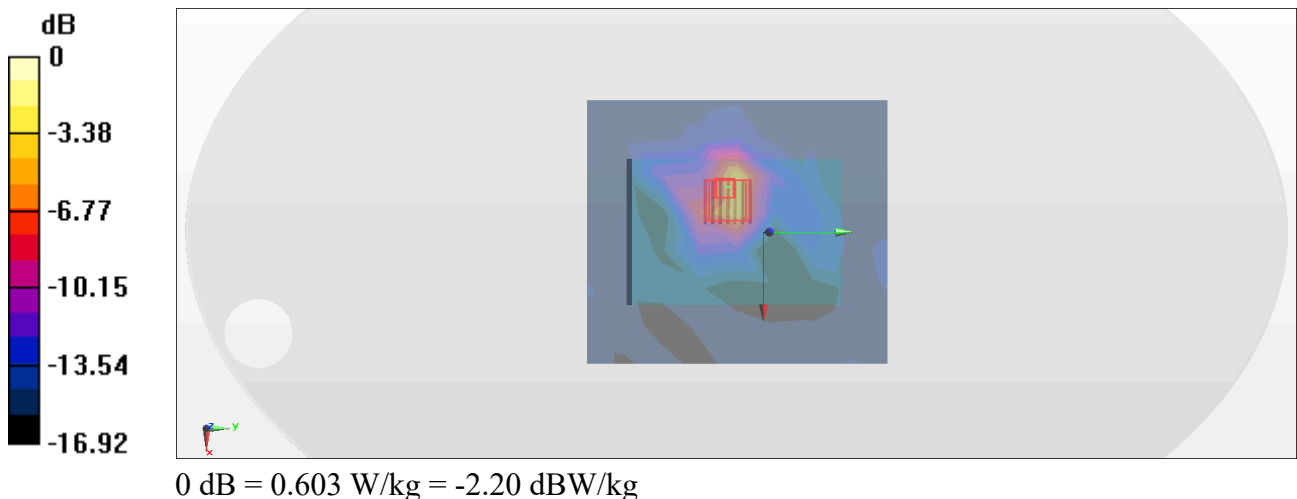
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 4.975 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.072 W/kg

Maximum value of SAR (measured) = 0.603 W/kg



21_WLAN5GHz_802.11ax-HE20 MCS0_Front Face_0mm_Freq5500**DUT: M12RT**

Communication System: WLAN; Frequency: 5500 MHz; Duty Cycle: 1:1.178

Medium: HSL5G_250730 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.872$ S/m; $\epsilon_r = 34.981$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.4°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2025/4/23
- Probe: EX3DV4 - SN7400; ConvF(5.12, 4.57, 5.29) @ 5500 MHz; Calibrated: 2025/5/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -44.0, 23.0$
- 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 (15x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.900 W/kg

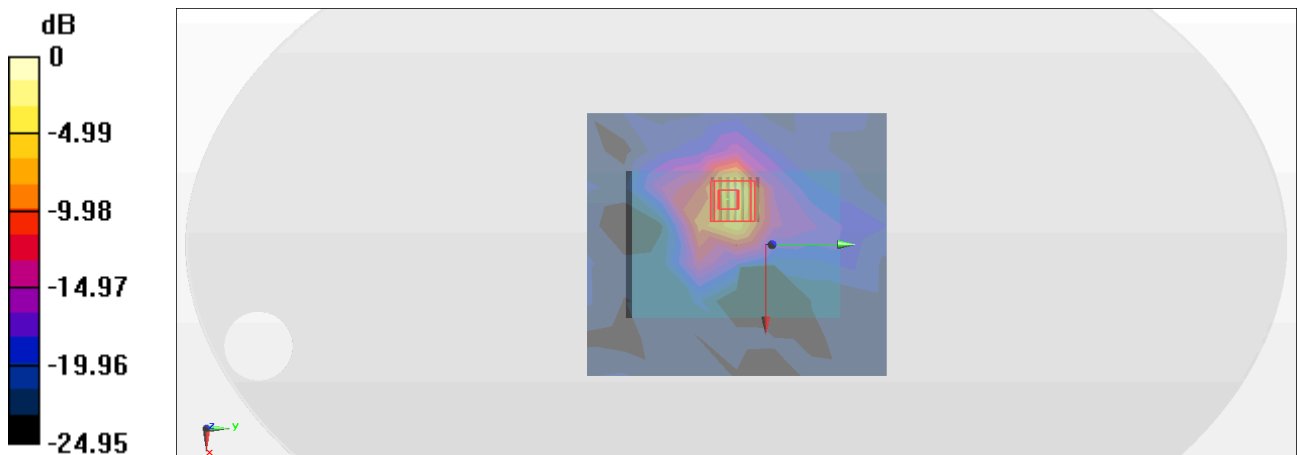
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 7.190 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.88 W/kg

SAR(1 g) = 0.604 W/kg; SAR(10 g) = 0.180 W/kg

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



0 dB = 1.54 W/kg = 1.88 dBW/kg

03_WLAN5GHz_802.11ax-HE20 MCS0_Front Face_0mm_Freq5745**DUT: M12RT**

Communication System: WLAN; Frequency: 5745 MHz; Duty Cycle: 1:1.178

Medium: HSL5G_250730 Medium parameters used: $f = 5745$ MHz; $\sigma = 5.156$ S/m; $\epsilon_r = 34.542$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.4°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2025/4/23
- Probe: EX3DV4 - SN7400; ConvF(5.21, 4.66, 5.39) @ 5745 MHz; Calibrated: 2025/5/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -44.0, 23.0$
- 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 (15x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.348 W/kg

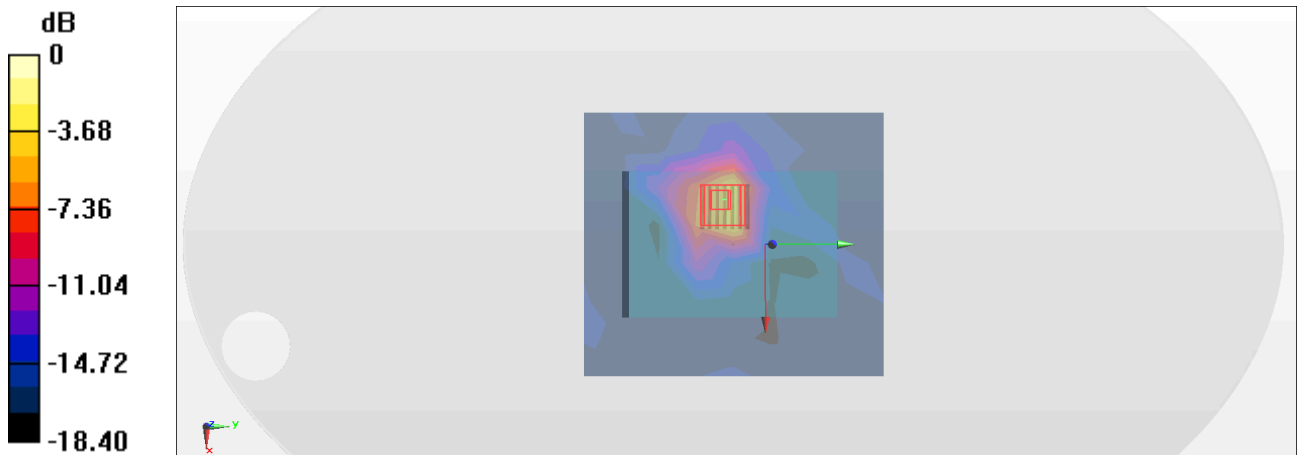
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 5.549 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.346 W/kg; SAR(10 g) = 0.115 W/kg

Maximum value of SAR (measured) = 0.863 W/kg



0 dB = 0.863 W/kg = -0.64 dBW/kg