

Appendix B - SAR Measurement

Test Laboratory: TUV Inc.

Date: 2023/12/18

08_WLAN2.4GHz_802.11g 6Mbps_Bottom Face_0mm_Ch1

DUT: VT67RFID

Communication System: WiFi; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450_231218 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.771$ S/m; $\epsilon_r = 39.896$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 21.7°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2023/4/25
- Probe: EX3DV4 - SN7400; ConvF(7.69, 7.69, 7.69) @ 2412 MHz; Calibrated: 2023/4/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -49.0, 31.0$
- 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 (16x14x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 0.0406 W/kg

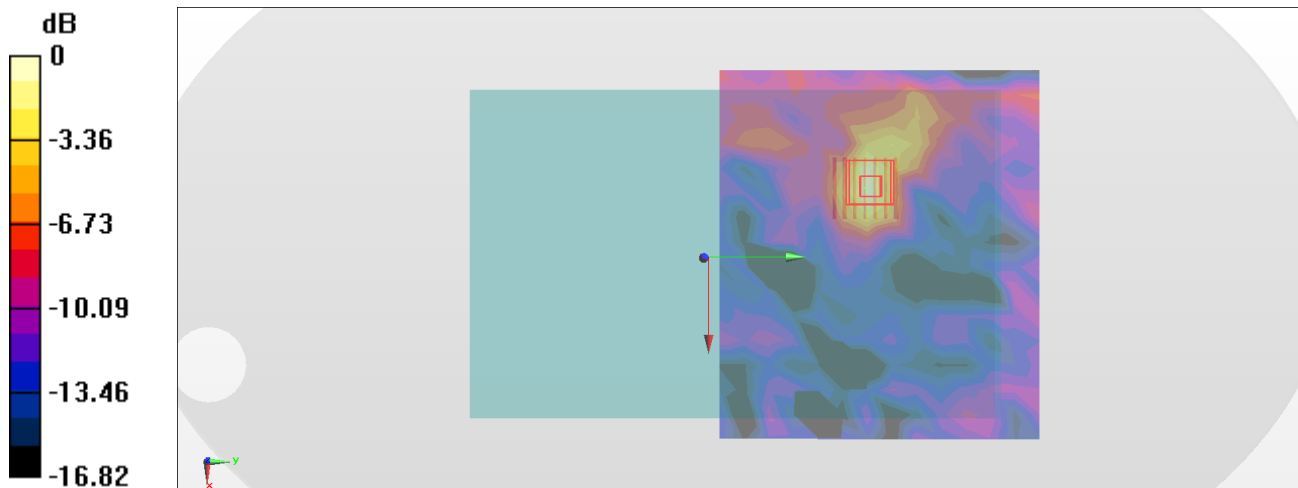
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.953 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.0570 W/kg

SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.015 W/kg

Maximum value of SAR (measured) = 0.0444 W/kg



14_WLAN5GHz_802.11n-HT20 MCS0_Bottom Face_0mm_Ch44**DUT: VT67RFID**

Communication System: WiFi; Frequency: 5220 MHz; Duty Cycle: 1:1

Medium: HSL5G_231219 Medium parameters used: $f = 5220$ MHz; $\sigma = 4.644$ S/m; $\epsilon_r = 36.778$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 21.8°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2023/4/25
- Probe: EX3DV4 - SN7400; ConvF(5.07, 5.07, 5.07) @ 5220 MHz; Calibrated: 2023/4/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -49.0, 23.0$
- 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 (20x31x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.670 W/kg

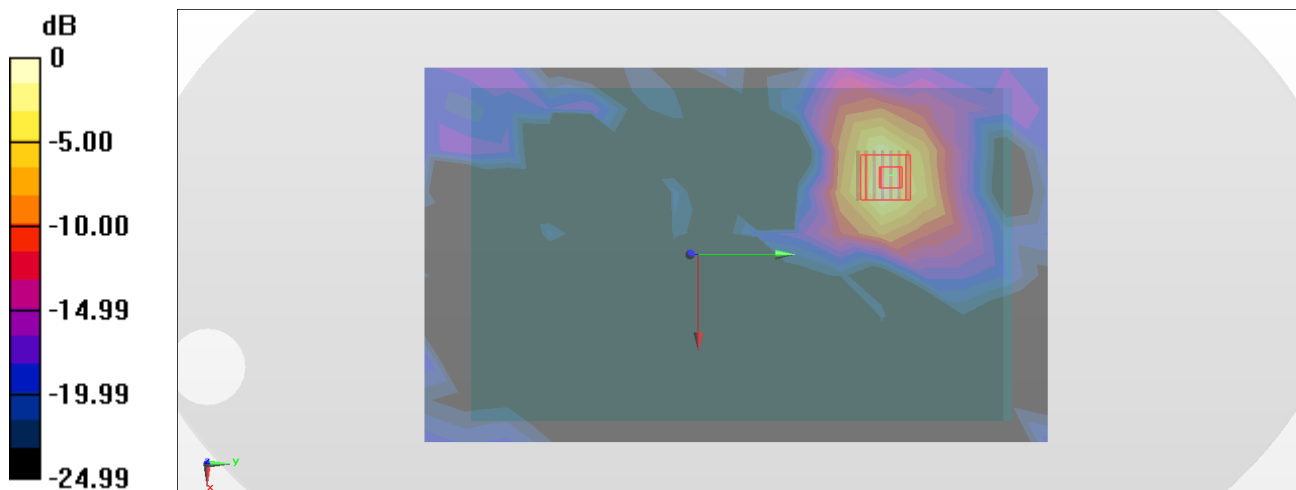
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 13.31 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.164 W/kg

Maximum value of SAR (measured) = 0.836 W/kg



20_WLAN5GHz_802.11a 6Mbps_Bottom Face_0mm_Ch149**DUT: VT67RFID**

Communication System: WiFi; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium: HSL5G_231219 Medium parameters used: $f = 5745$ MHz; $\sigma = 5.243$ S/m; $\epsilon_r = 36.114$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 21.8°C

DASY Configuration:

- Electronics: DAE4 Sn855; Calibrated: 2023/4/25
- Probe: EX3DV4 - SN7400; ConvF(4.8, 4.8, 4.8) @ 5745 MHz; Calibrated: 2023/4/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = -49.0, 23.0$
- 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 (20x31x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 1.01 W/kg

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

Reference Value = 15.32 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 1.18 W/kg

