

Appendix B:SAR Measurement results Plots

Table of contents
2.4G WiFi - Body

Test Laboratory: CTI SAR Lab

WiFi 802.11b 11CH Top Side 0mm

DUT: Heavy Duty Vehicle Diagnostic Tool; Type: NA; Serial: NA

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.787$ S/m; $\epsilon_r = 39.764$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.67, 7.67, 7.67); Calibrated: 2/3/2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2021
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (11x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

Maximum value of SAR (measured) = 1.03 W/kg

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

Reference Value = 19.04 V/m; Power Drift = -0.37 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.708 W/kg; SAR(10 g) = 0.301 W/kg

Maximum value of SAR (measured) = 1.23 W/kg

