

Appendix B

Detailed Test Results

1. WIFI

WIFI 2.4G

Test Laboratory: SGS-SAR Lab

WP01 WiFi 2.4G 802.11b 11CH Front side 0mm

DUT: WP01; Type: Electric Toothbrush ;

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2462 MHz;Duty Cycle: 1:1.001

Medium: HSL2450;Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.815 \text{ S/m}$; $\epsilon_r = 40.421$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3836; ConvF(7.35, 7.35, 7.35); Calibrated: 2024/9/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1267; Calibrated: 2025/1/20
- Phantom: SAM 1; Type: SAM; Serial: 1912
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (9x20x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Maximum value of SAR (measured) = 0.323 W/kg

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

Reference Value = 1.819 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.116 W/kg

Smallest distance from peaks to all points 3 dB below = 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 49.2%

Maximum value of SAR (measured) = 0.308 W/kg

