1. SAR setup photo

Dongle has no rotation function, but the external antenna can swivel.

Take Horizontal-Down Rotating Antennas for example, it has the same test sides with Setup photo after evaluating all test sides.

We evaluate 6 ways of rotation: Horizontal-Up, Horizontal-Down, Vertical-Front, Vertical-Back, Tip and Bottom. Every configuration has repetition test sides, to avoid repetition test, we maintain the basic configuration of 447498 D02. Please refer to the following photos.





2. Antenna location:





3. The worst case of SAR result:

Test Laboratory: A Test Lab Techno Corp. Date: 2020/8/19

09 IEEE 802.11a CH 36 6M 0mm ant A -B

DUT: 7822; Type: NB; Serial: N/A

Communication System: UID 0, IEEE 802.11a (0); Frequency: 5180 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5180 MHz; σ = 4.5 S/m; ϵ_r = 36.747; ρ = 1000 kg/m Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5.2 Configuration:

- Area Scan setting Find Secondary Maximum Within: 2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 SN3847; ConvF(5.19, 5.19, 5.19) @ 5180 MHz; Calibrated: 2020/5/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2020/3/18 .
- Phantom: ELI V4.0 (20deg probe tilt); Type: QD OVA 001 BB; Serial: 1036 Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.10 (7331)

Area Scan (41x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAŔ (interpolated) = 1.31 W/kg

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 13.30 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 1.68 W/kg SAR(1 g) = 0.456 W/kg; SAR(10 g) = 0.174 W/kg Smallest distance from peaks to all points 3 dB below = 8.5 mm Ratio of SAR at M2 to SAR at M1 = 64.8% Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg