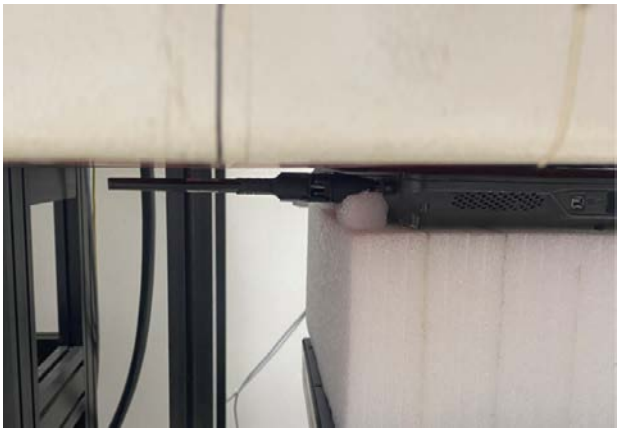
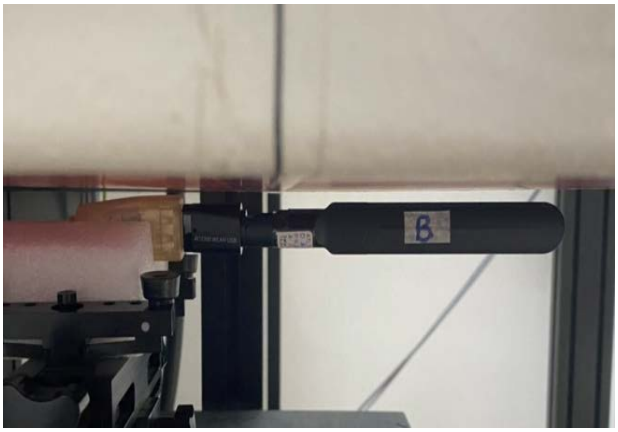
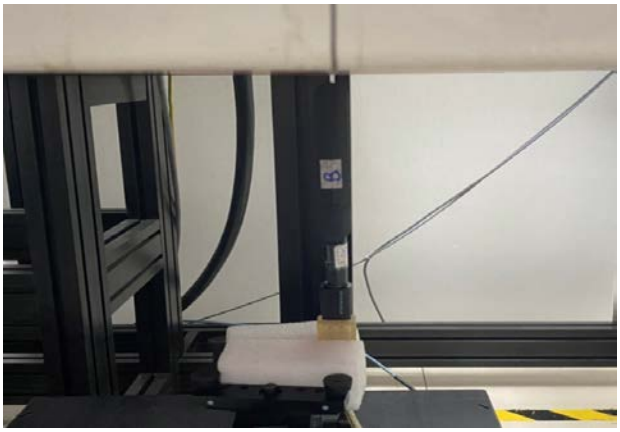
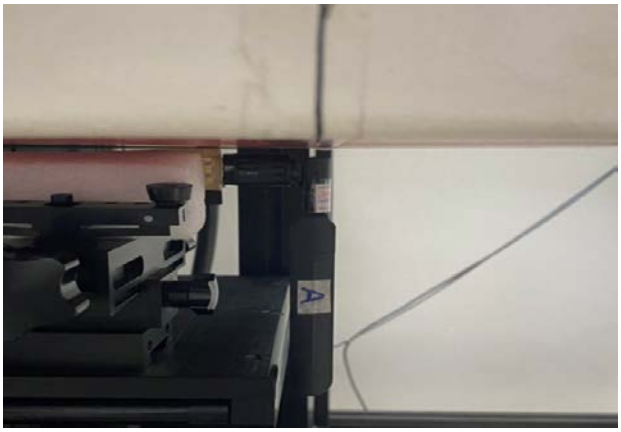
1. SAR setup photo

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

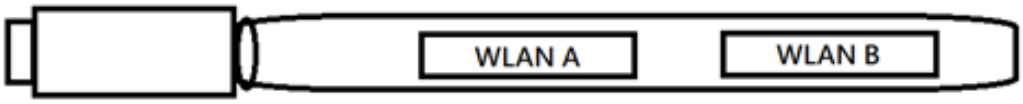
Take **Horizontal-Down Rotating Antennas** for example, it has the same test sides with Setup photo after evaluating all test sides.

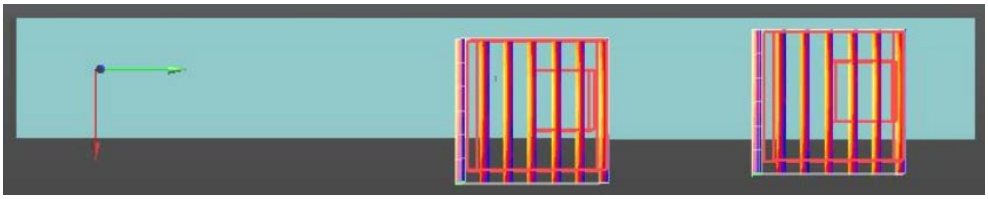
We evaluate 6 ways of rotation: Horizontal-Up, Horizontal-Down, Vertical-Front , Vertical-Back, Tip and Bottom. Every configuration has repetition test sides, to avoid repetition test, we maintain the basic configuration of 447498 D02. Please refer to the following photos.

Setup photo	
Horizontal-Up_5mm	Horizontal-Down_5mm
	
Vertical-Front_5mm	Vertical-Back_5mm
	
Tip_5mm	Bottom_5mm
	

Horizontal-Down Rotating Antennas	
1	2
	
3	4
	
5	6
	

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

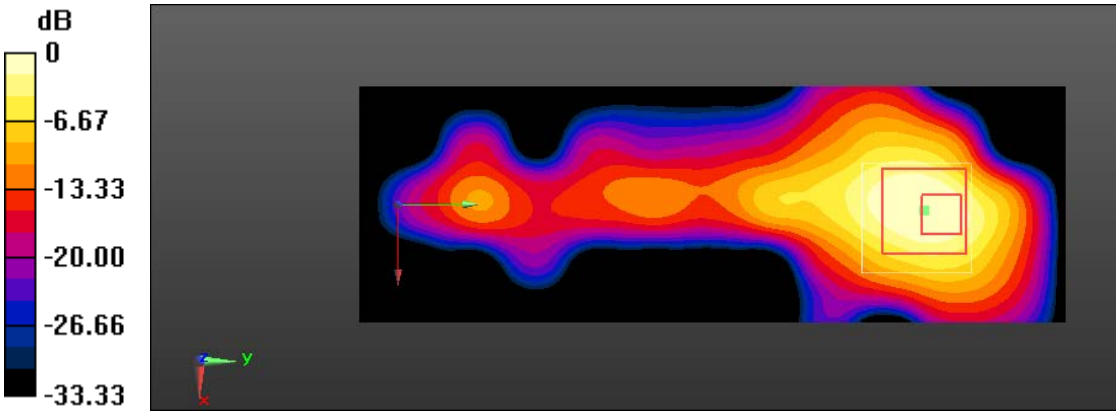
Communication System: UID 0, IEEE 802.11a (0); Frequency: 5180 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5180 MHz; σ = 4.5 S/m; ε_r = 36.747; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 SAR (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