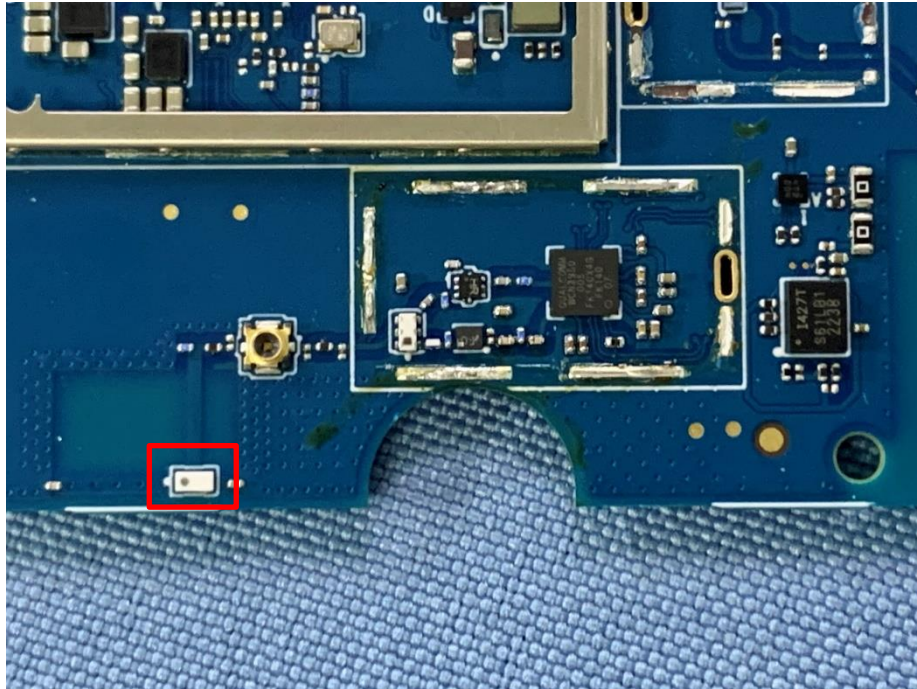


Antenna Specification

1. Antenna Describe

Antenna Manufacturer	Universal Scientific Industrial (Shanghai) Co., Ltd.
Address	No.1558, Zhang Dong Rd., Pudong New Area, Shanghai 201203, China
Antenna Model	ANT162442DT-2001A2
Antenna Type	Chip Antenna
Antenna Gain	-2.8dBi Max (2.4G), 2.5dBi Max (5G)
Frequency Rang	2400-2500MHz, 5150-5850MHz
VSWR	≤ 2
Input Impedance	50 Ω

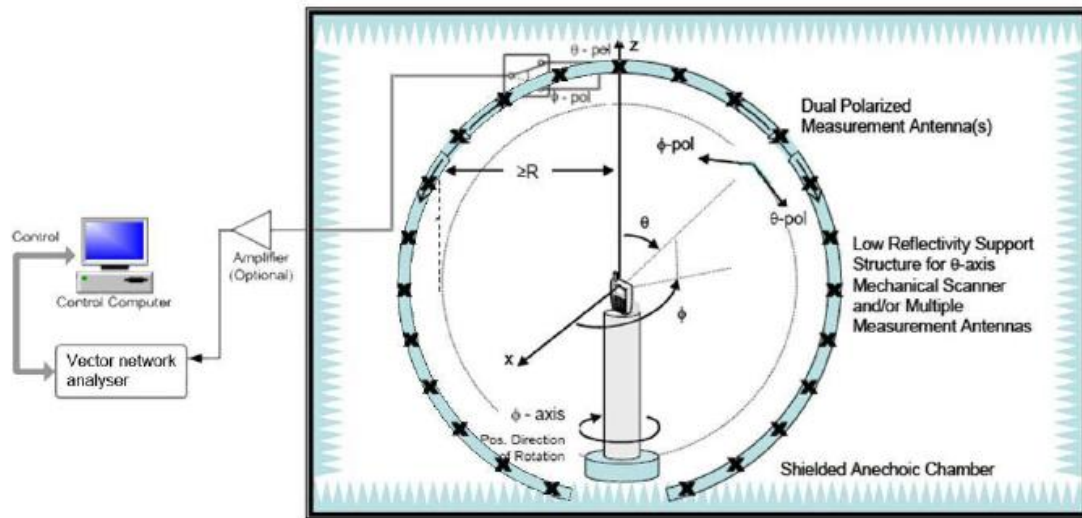
2. External View Drawing



Length = 1.5 ± 0.2 mm, Width = 0.8 ± 0.1 mm, Height = 0.2 ± 0.1 mm

3. Measurement Result

3.1 Test Setup



3.2 S11 Parameter



3.3 Antenna test data

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	14	-3.2
2410	15	-3.0
2420	13	-2.8
2430	18	-3.0
2440	17	-2.9
2450	15	-2.9
2460	16	-3.3
2470	14	-3.6
2480	15	-3.7
2490	16	-4.0
2500	17	-3.8
5150	42	2.3
5200	45	2.1
5250	48	2.3
5300	48	2.5
5350	47	2.4
5400	42	2.0
5450	44	2.3
5500	46	2.4
5550	42	2.0
5600	44	2.2
5650	40	1.9
5700	43	2.0
5750	42	2.0
5800	41	1.9
5850	45	2.3

3.4 Antenna test diagram

