

Shenzhen Yishengbang Technology Co. , Ltd

Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer: Yilaidun
Project: WA2183
Product: BT+WIFI Antenna
Report date: 2024.10.26

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Purpose

This report is to measure the performance of SLK for Master Antenna on Yilaidun. All measure data are showed below.

Content

1. Product Overview

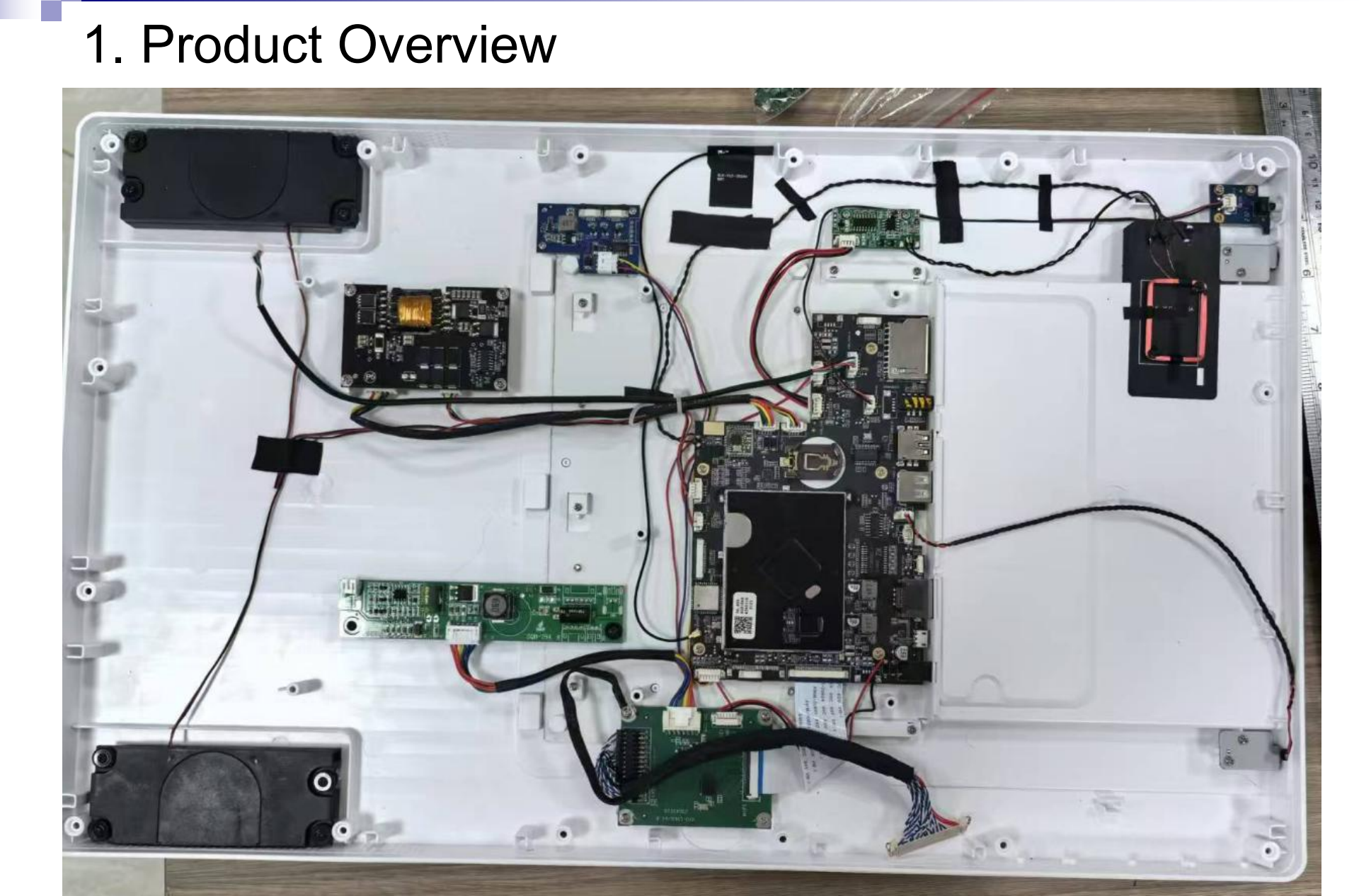
2. Test Result

2.1 WIFI MAIN Antenna VSWR

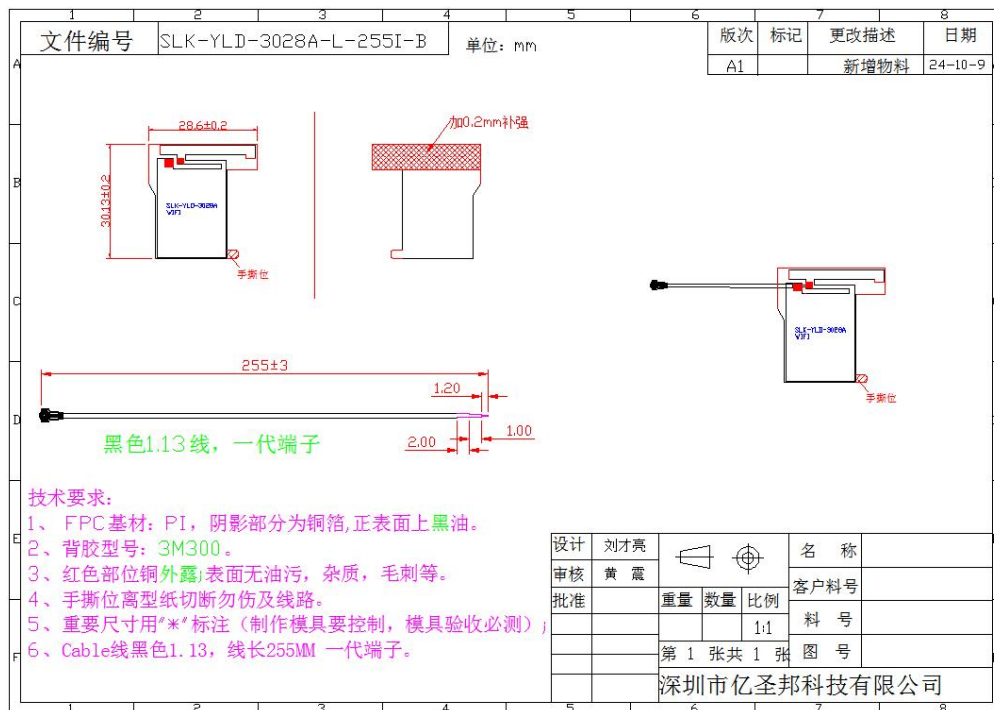
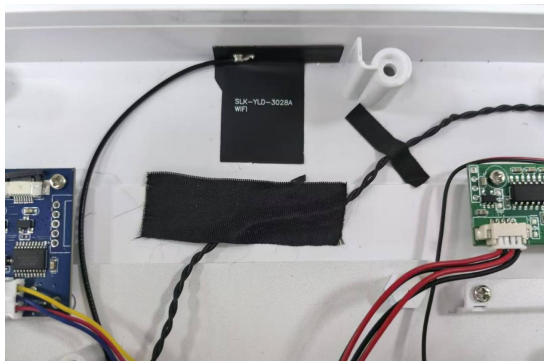
2.2 BT+WIFI MAIN Antenna Gain/Efficiency/3D DATA

2.3 WIFI active test

3. Conclusions



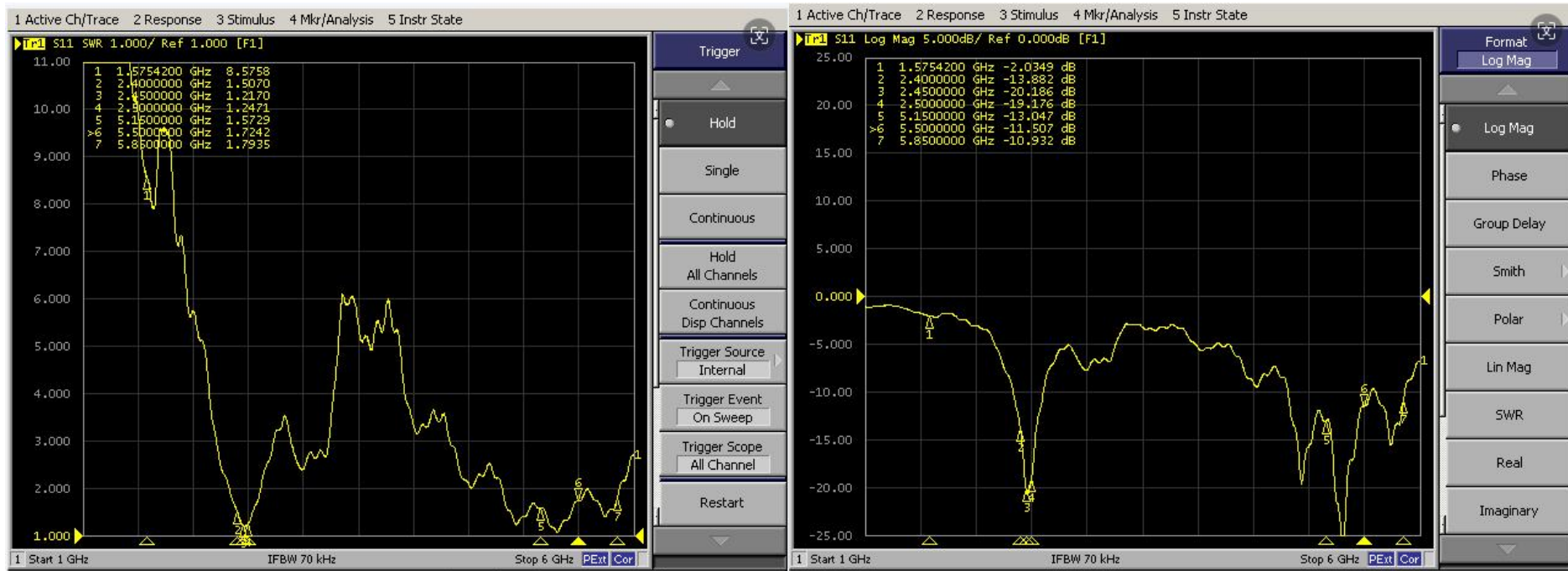
1. Product Overview



BT+WIFI

2. Test Result

2.1 WIFI MAIN Antenna VSWR/S11

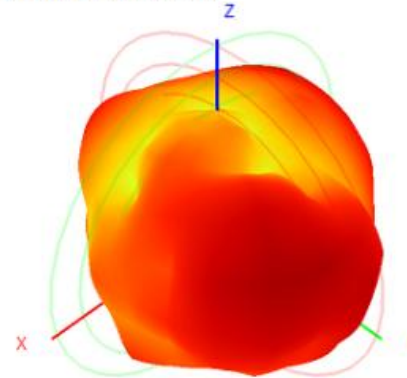


2. Test Result

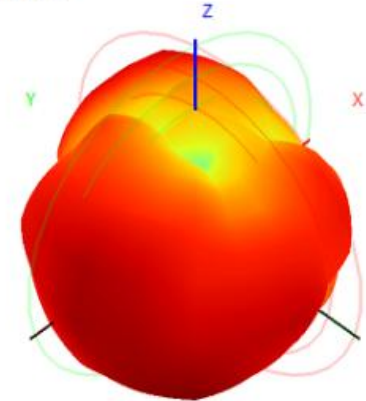
2.2 WIFI MAIN Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-3.70	1.43	42.63
2410	-3.47	1.65	45.01
2420	-2.85	1.45	51.87
2430	-2.95	1.09	50.72
2440	-2.85	1.15	51.85
2450	-2.98	1.83	50.31
2460	-2.74	1.18	53.17
2470	-3.12	1.24	48.72
2480	-3.17	1.45	48.20
2490	-2.92	1.86	51.03
2500	-3.03	1.78	49.75
5150	-3.50	2.97	44.66
5250	-3.63	2.99	43.36
5350	-3.48	2.75	44.85
5450	-3.31	2.68	46.61
5550	-3.94	2.51	40.37
5650	-3.71	2.56	42.53
5750	-3.84	1.96	41.30
5850	-4.28	1.13	37.30

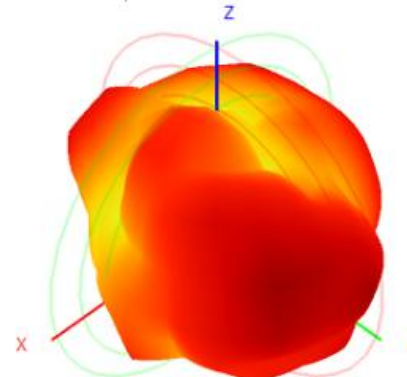
2400.0MHz H+V, Eff: 42.6%



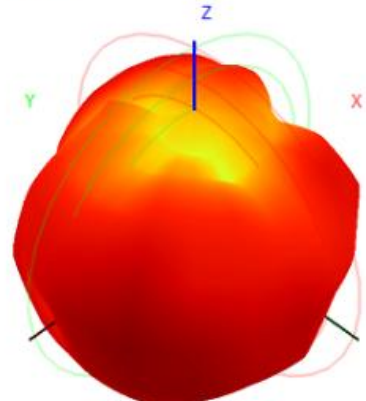
Back View



2450.0MHz H+V, Eff: 50.3%



Back View

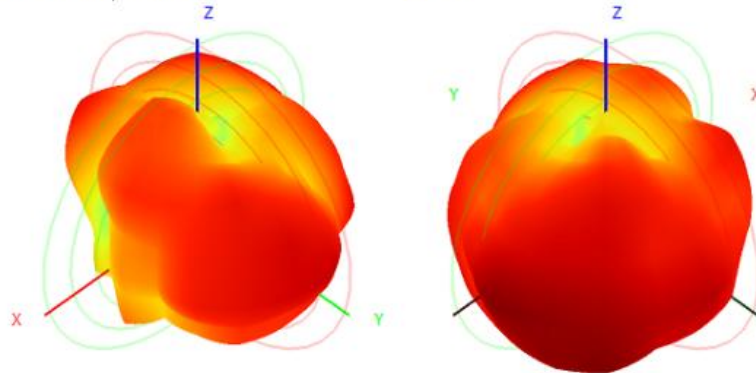


2. Test Result

2.2 WIFI MAIN Antenna Gain/Efficiency/3D DATA

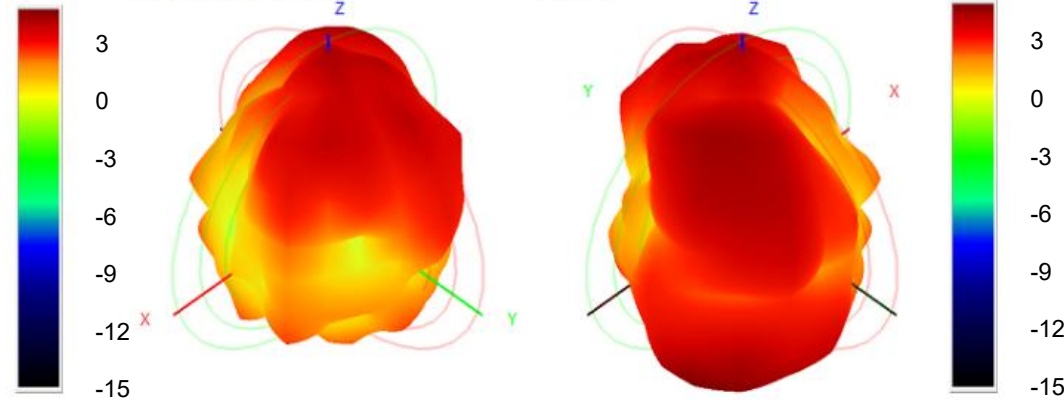
2500.0MHz H+V, Eff: 49.7%

Back View



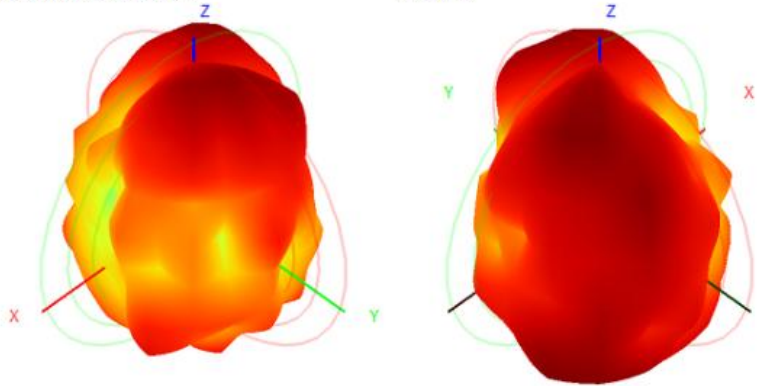
5150.0MHz H+V, Eff: 44.7%

Back View



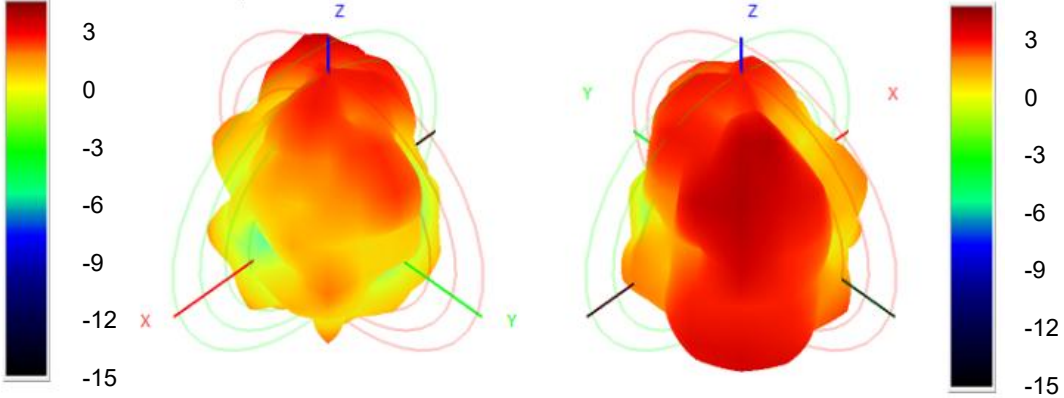
5450.0MHz H+V, Eff: 46.6%

Back View



5850.0MHz H+V, Eff: 37.3%

Back View



2. Test Result

2.3 WIFI active test

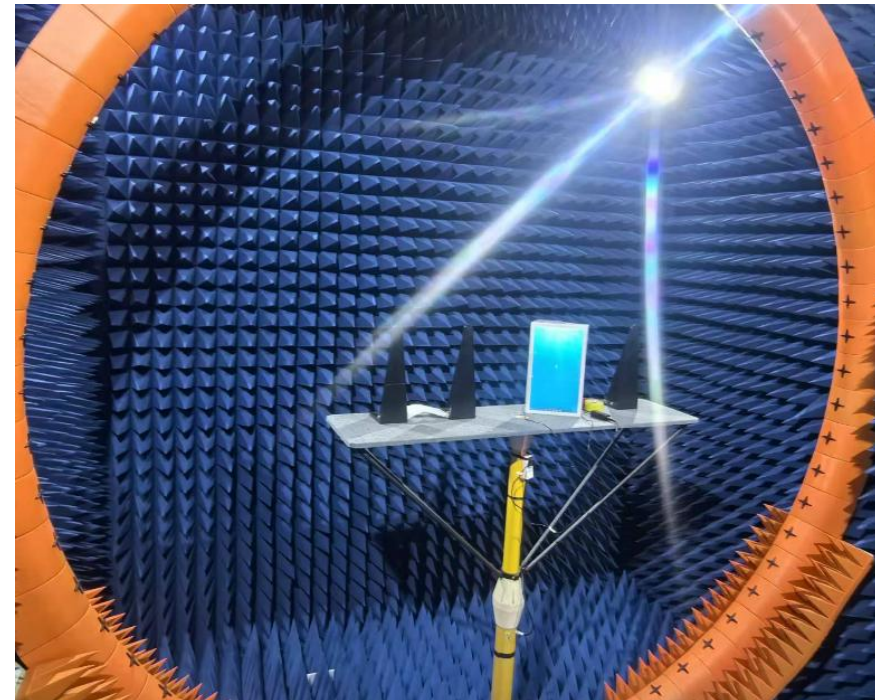
WIFI active testing			
Frequency band	1	6	11
B-TRP-11MBps	12.46	12.93	13.29
B-TIS-11MBps	-79.58	-80	-79.81
G-TRP-54MBps	11.16	11.63	11.48
G-TIS-54MBps	-69.16	-69.02	-69.00
N-TRP-MCS7	11.27	11.25	11.06
N-TIS-MCS7	-64.90	-65.44	-65.16
Frequency band	36	149	165
A-TRP-54MBps	11.96	12.06	12.31
A-TIS-54MBps	-70.84	-70.69	-71.97

2. Test Result

2.3 WIFI active test

WIFI active testing			
Frequency band	1	6	11
B-TRP-11MBps	12.38	12.06	12.93
B-TIS-11MBps	-79.08	-79.53	-79.94
G-TRP-54MBps	11.22	11.50	11.65
G-TIS-54MBps	-69.92	-69.16	-69.28
N-TRP-MCS7	11.15	11.17	11.59
N-TIS-MCS7	-65.89	-65.75	-65.13
Frequency band	36	149	165
A-TRP-54MBps	11.57	12.89	12.31
A-TIS-54MBps	-69.34	-70.72	-69.44

Machine vertical testing





3. Conclusions

Thanks!