



Shenzhen Runicc Wireless Technology Co.,LTD

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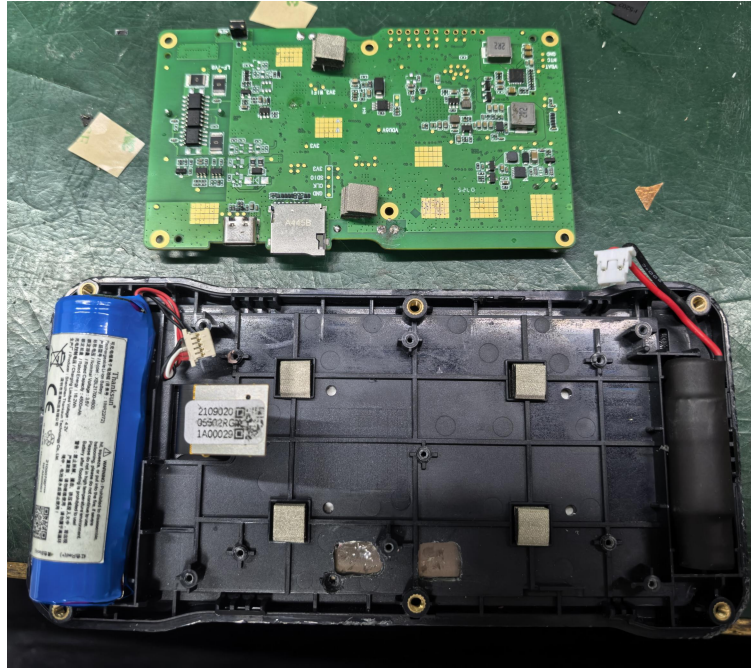
Antenna Test Report

Customer / Project No. :

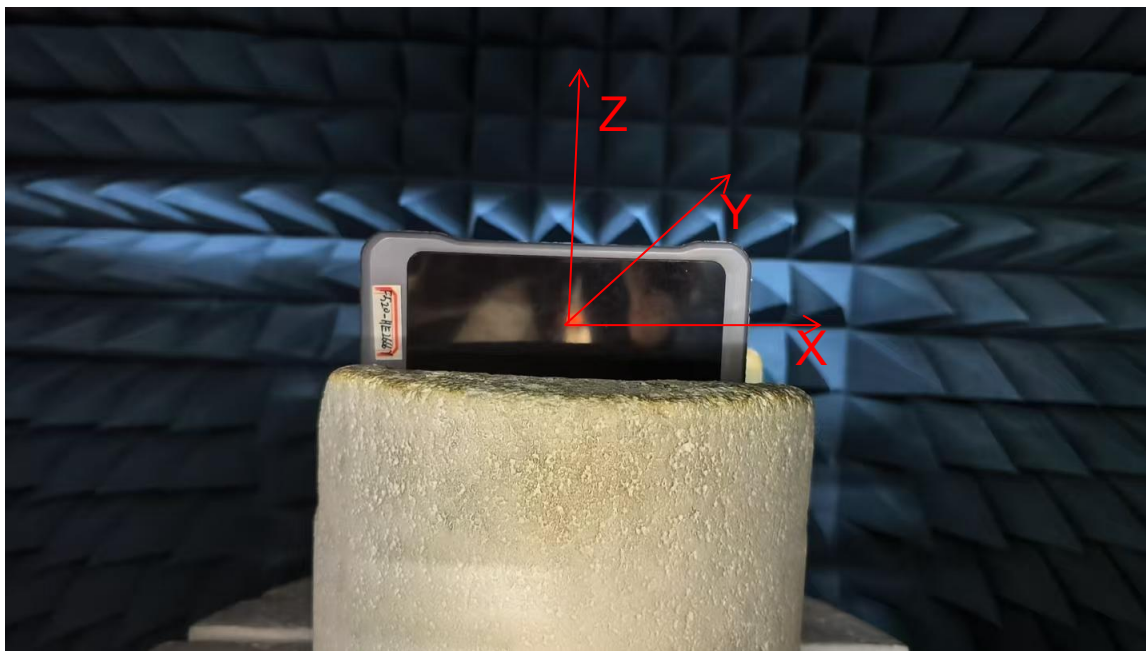
F520 Test Report

RF: Jiang Xianzhi

2025/05/21



No changes have been made to the environmental treatment. As shown in the above figure, the mainboard has two grounding points, and the screen has four grounding points.



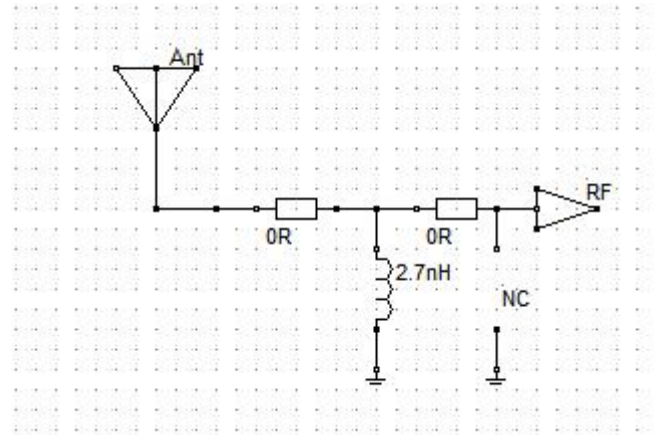
Darkroom test coordinates

Dual-band

团结 严谨 自律 进取

1. F520 WiFi Dual-frequency antenna test

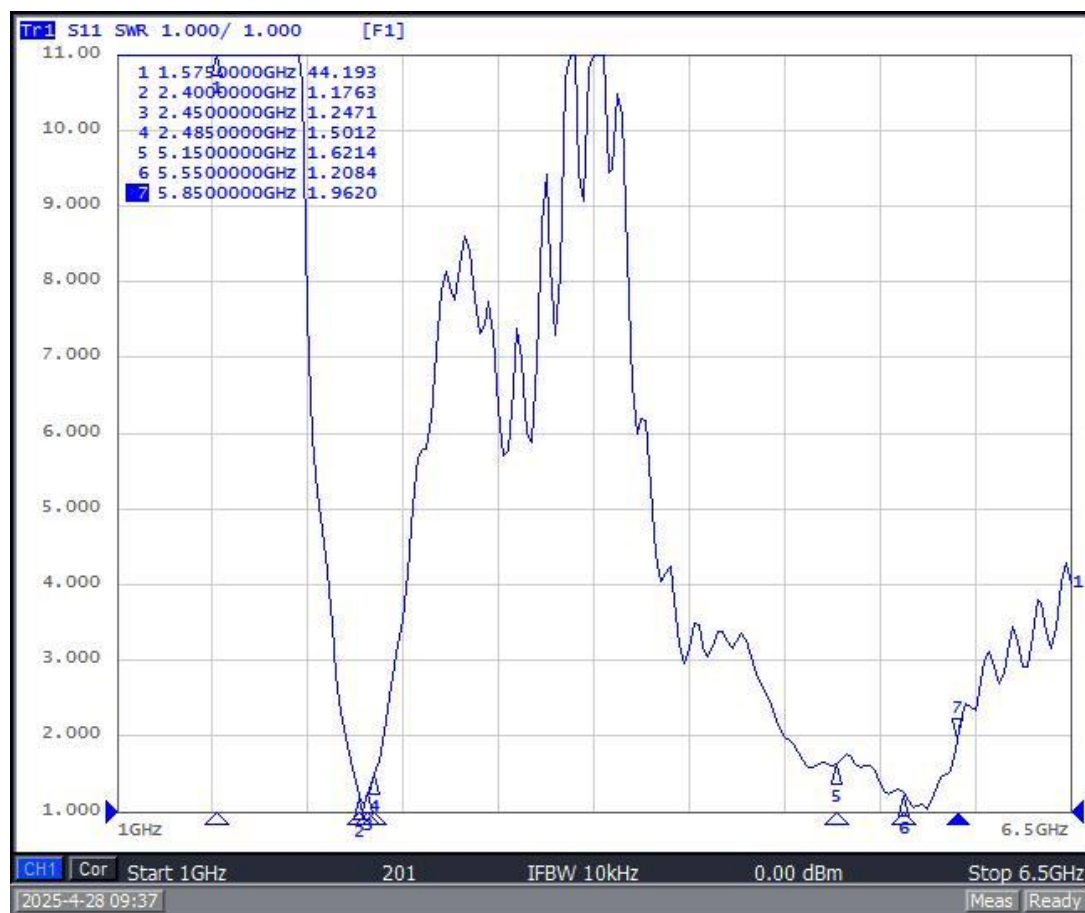
1.1 Antenna matching diagram



1.2 Antenna mounting



1.3 S11

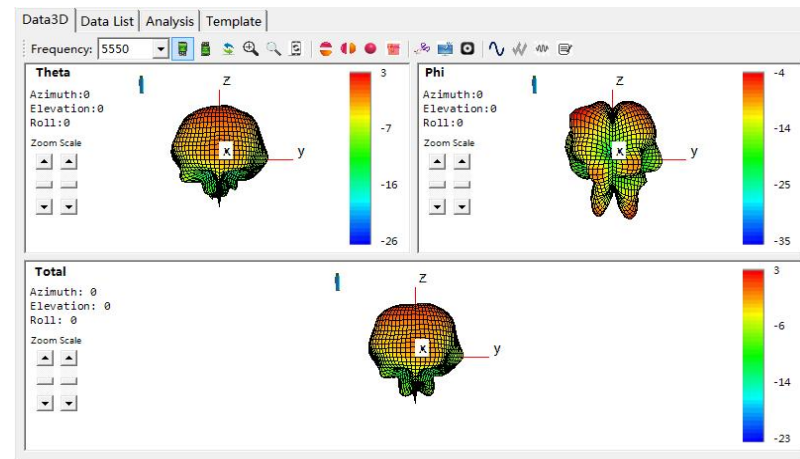
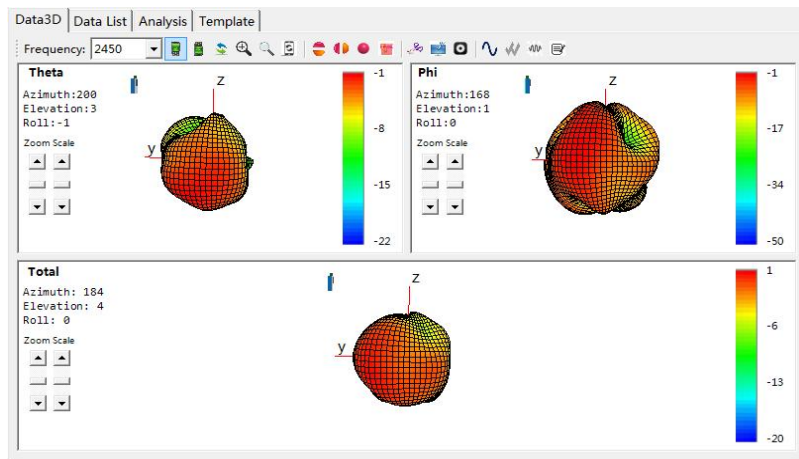


团结 严谨 自律 进取

1.4 Passive data

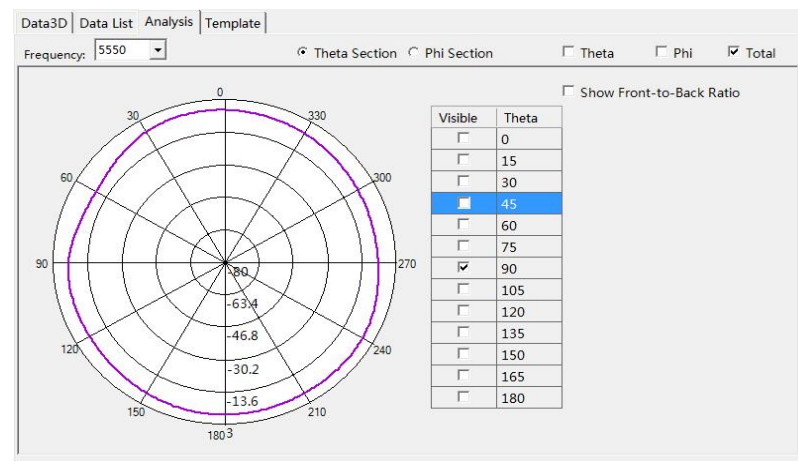
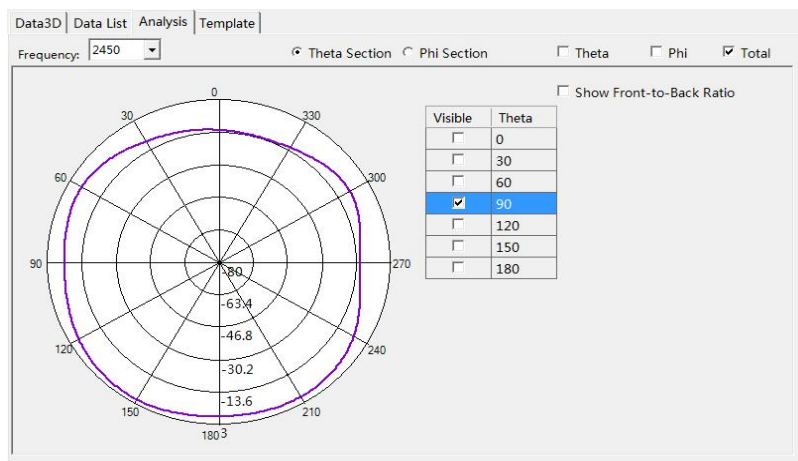
chNo	Freq	TRP	PeakEIRP	Directivity	Gain	Efficiency_dB	Efficiency_Percent
1	2400	-2.63	2.15	4.79	2.15	-2.63	54.52
2	2410	-2.29	2.48	4.77	2.48	-2.29	59.03
3	2420	-2.13	2.80	4.93	2.80	-2.13	61.19
4	2430	-2.22	2.56	4.77	2.56	-2.22	60.04
5	2440	-2.28	1.99	4.27	1.99	-2.28	59.14
6	2450	-2.36	1.82	4.18	1.82	-2.36	58.01
7	2460	-2.36	1.81	4.17	1.81	-2.36	58.13
8	2470	-2.51	2.20	4.72	2.20	-2.51	56.04
9	2480	-2.56	1.52	4.08	1.52	-2.56	55.40
10	2490	-2.66	1.51	4.18	1.51	-2.66	54.18
11	2500	-2.71	2.12	4.84	2.12	-2.71	53.54
12	5150	-2.81	3.77	6.12	3.77	-2.81	52.24
13	5250	-2.56	3.72	6.20	3.72	-2.56	55.36
14	5350	-2.11	3.45	6.27	3.45	-2.11	61.47
15	5450	-2.33	3.24	6.12	3.24	-2.33	58.45
16	5550	-2.48	2.94	5.74	2.94	-2.48	56.37
17	5650	-2.81	2.03	5.12	2.03	-2.81	52.34
18	5750	-2.88	1.72	5.25	1.72	-2.88	51.47
19	5850	-2.95	1.66	5.34	1.66	-2.95	50.69

1.5 3D



团结 严谨 自律 进取

1.6 2D



团结 严谨 自律 进取

1.7 Active data

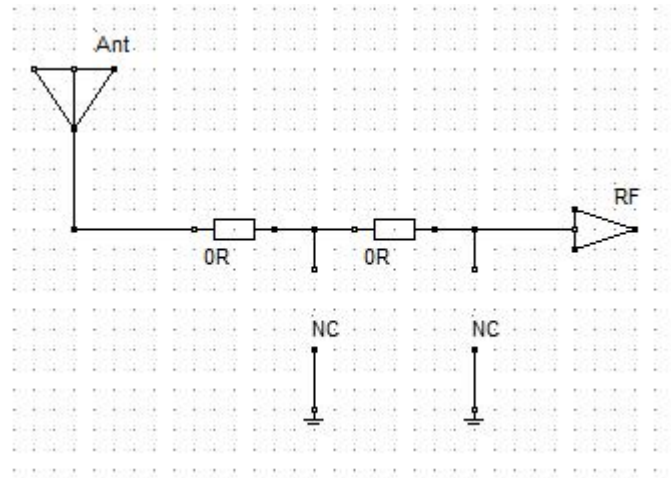
Test Equipment	CMW 500			
Band	Wireless Peotocol	Channel	数据（双频）	
			TRP (dBm)	TIS (dBm)
WIFI	802. 11. b	1	16. 24	-84. 24
		6	16. 31	-84. 01
		11	16. 11	-84. 73
	802. 11. a	149	13. 03	-68. 88
		157	13. 16	-66. 77
		165	13. 69	-68. 31
	802. 11. g	1	13. 12	-70. 53
		6	13. 03	-71. 07
		11	13. 31	-71. 66
	802. 11. gn	1	11. 43	-66. 59
		6	11. 27	-67. 28
		11	11. 39	-67. 49
	802. 11. an	1	11. 12	-65. 24
		6	11. 07	-65. 43
		11	11. 21	-65. 61

ESP

团结 严谨 自律 进取

2. F520 WiFi ESP test

2.1 Antenna matching diagram

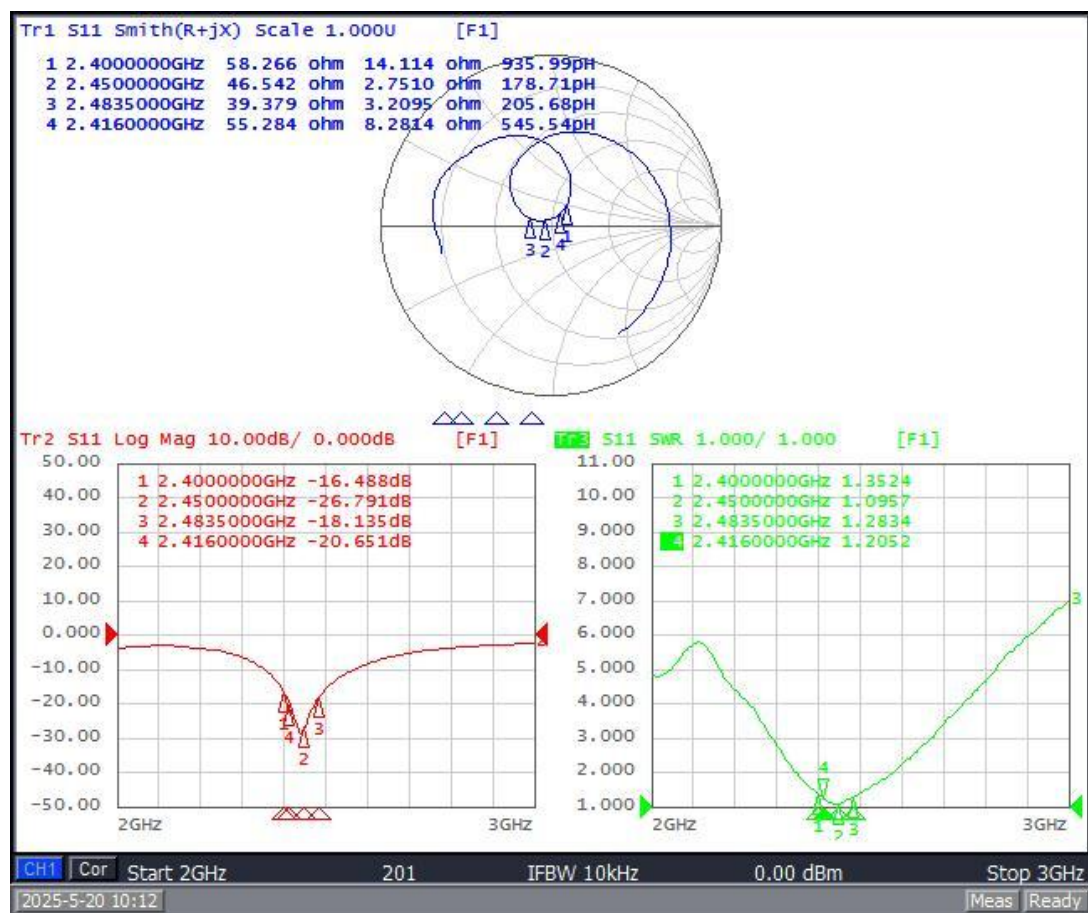


2.2 Antenna mounting



团结 严谨 自律 进取

2.3 S11

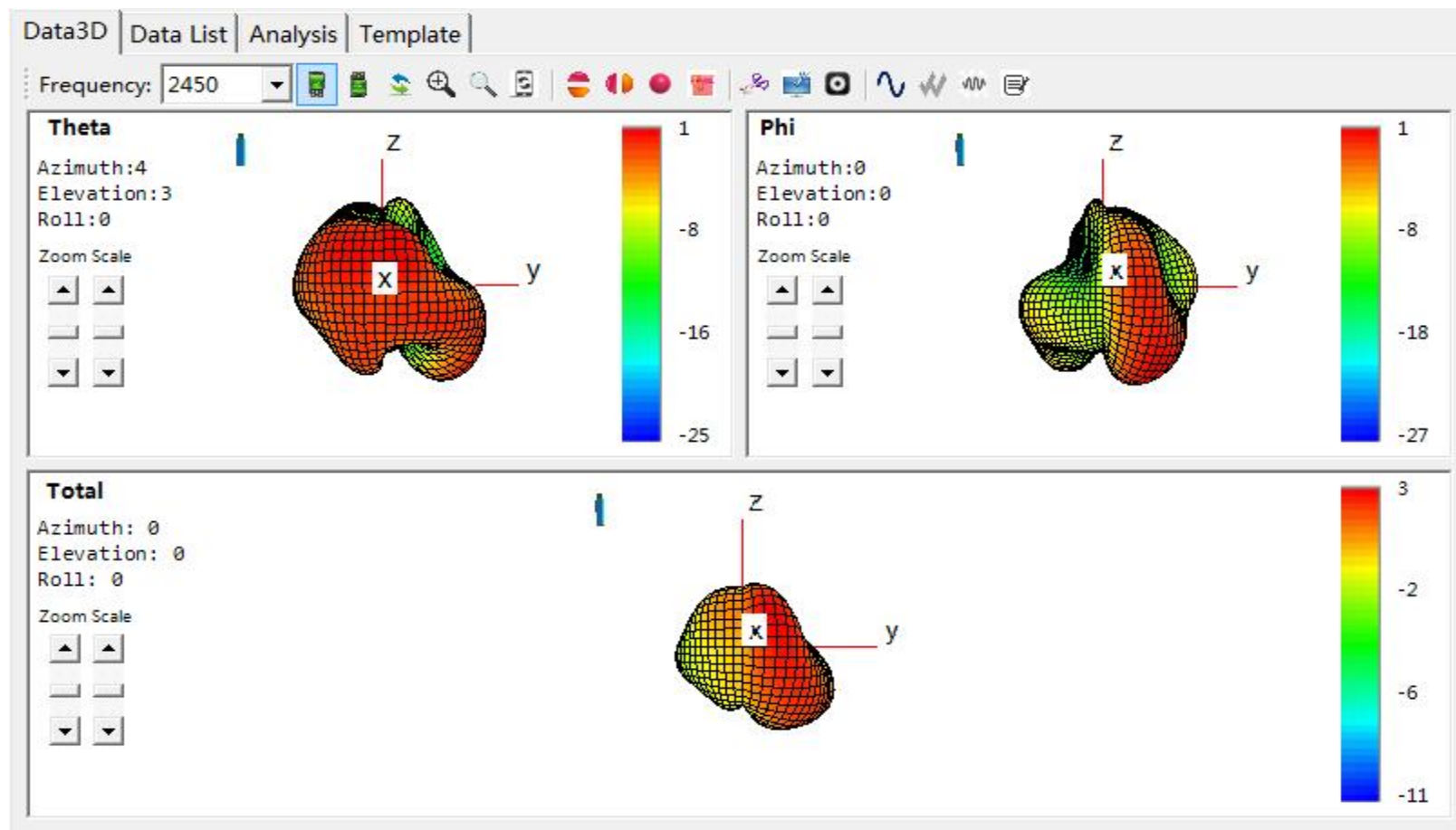


团结 严谨 自律 进取

2.4 Passive data

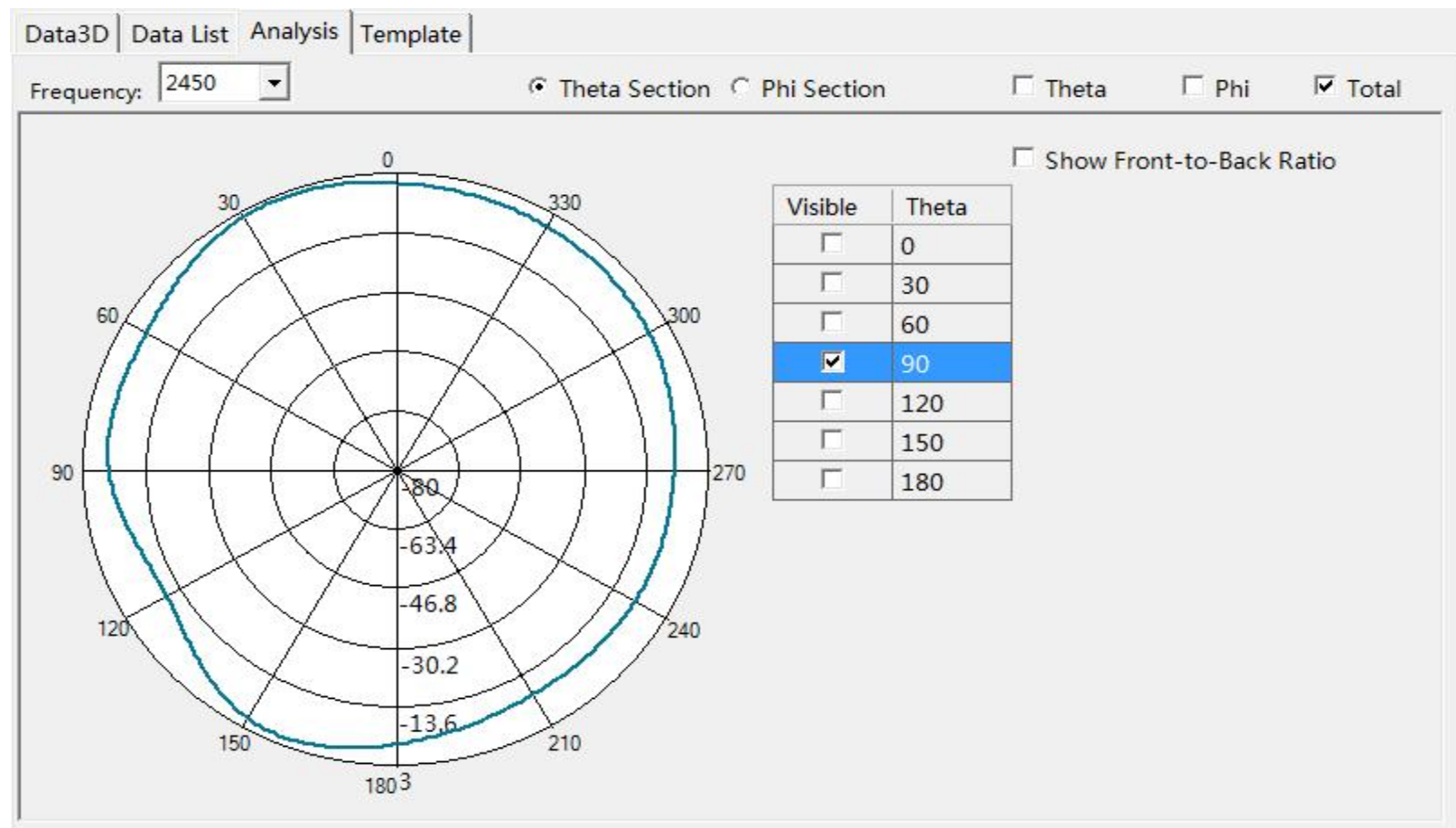
chNo	Freq	TRP	PeakEIRP	Directivity	Gain	Efficiency_dB	Efficiency_Percent
1	2400	-2.75	2.38	5.13	2.38	-2.75	53.11
2	2410	-2.64	2.41	5.05	2.41	-2.64	54.42
3	2420	-2.62	2.53	5.16	2.53	-2.62	54.64
4	2430	-2.60	2.55	5.15	2.55	-2.60	54.96
5	2440	-2.63	2.38	5.01	2.38	-2.63	54.59
6	2450	-2.67	2.33	5.00	2.33	-2.67	54.05
7	2460	-2.58	2.38	4.96	2.38	-2.58	55.22
8	2470	-2.47	2.39	4.86	2.39	-2.47	56.65
9	2480	-2.41	2.57	4.91	2.57	-2.41	57.38
10	2490	-2.62	2.19	4.80	2.19	-2.62	54.72
11	2500	-2.72	1.85	4.57	1.85	-2.72	53.43

2.5 3D



团结 严谨 自律 进取

2.6 2D



团结 严谨 自律 进取

2.7 Active data

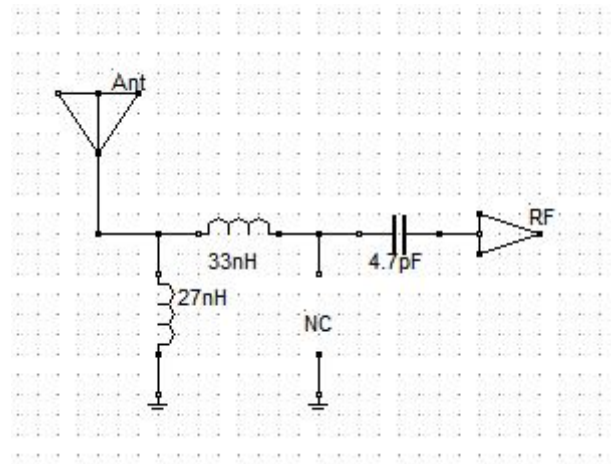
Test Equipment	CMW 500			
Band	Wireless Peotocol	Channel	数据	
			TRP (dBm)	TIS (dBm)
WIFI	802. 11. b	1	16. 51	-82. 37
		7	16. 69	-82. 31
		13	16. 78	-82. 34
	802. 11. g	1	14. 21	-70. 59
		6	14. 27	-71. 76
		11	14. 17	-71. 49
	802. 11. gn	1	14. 55	-68. 33
		6	14. 72	-68. 81
		11	14. 49	-69. 48

433/315

团结 严谨 自律 进取

3. F520 433/315 test

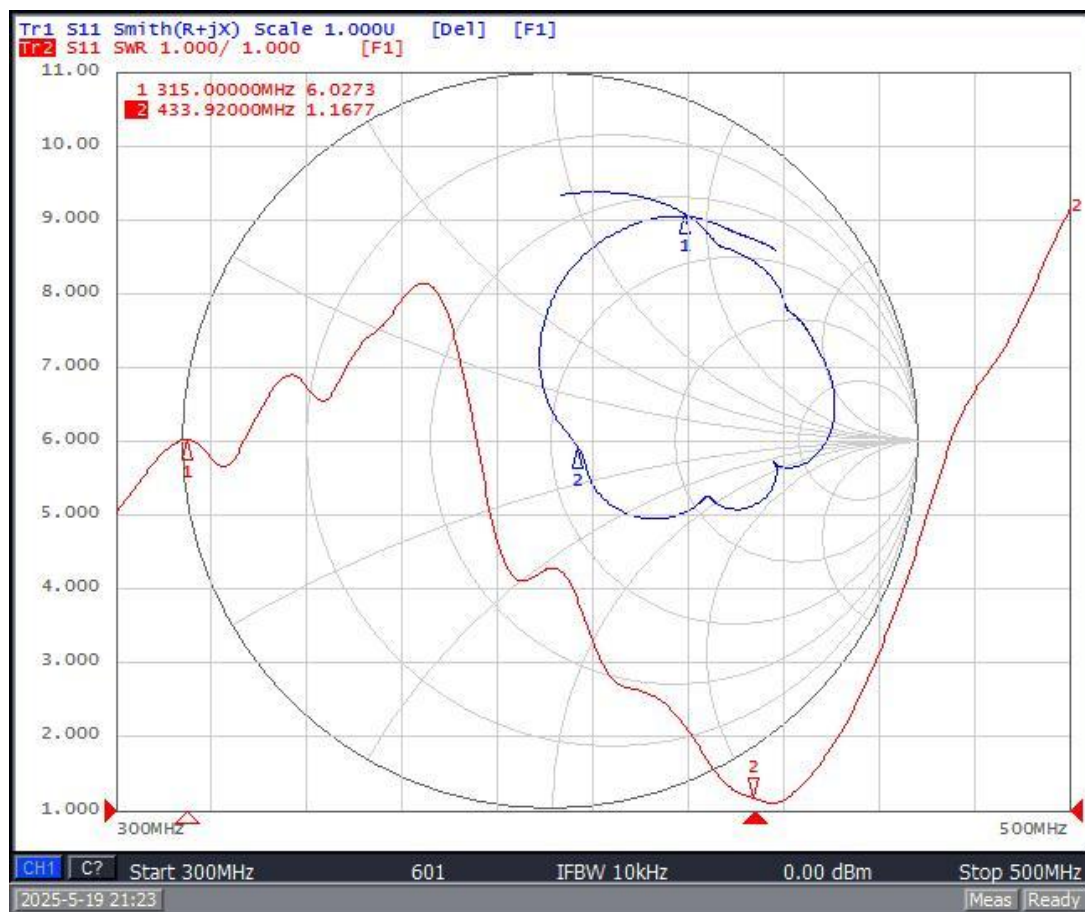
3.1 Antenna matching diagram



3.2 Antenna mounting



3.3 S11

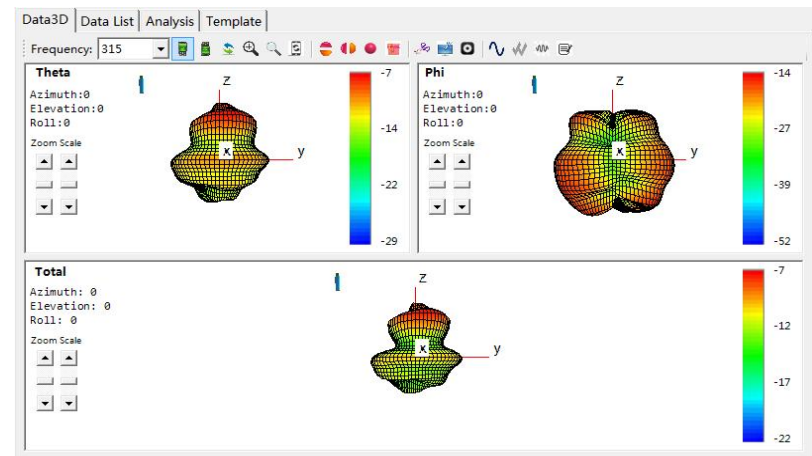
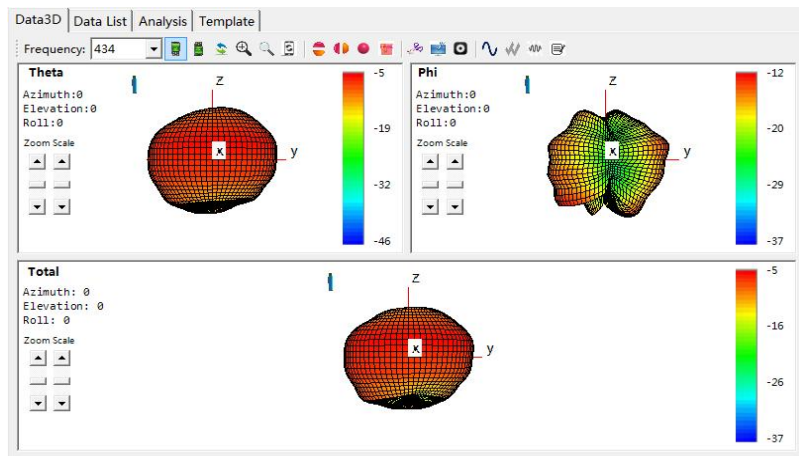


团结 严谨 自律 进取

3.4 Passive data

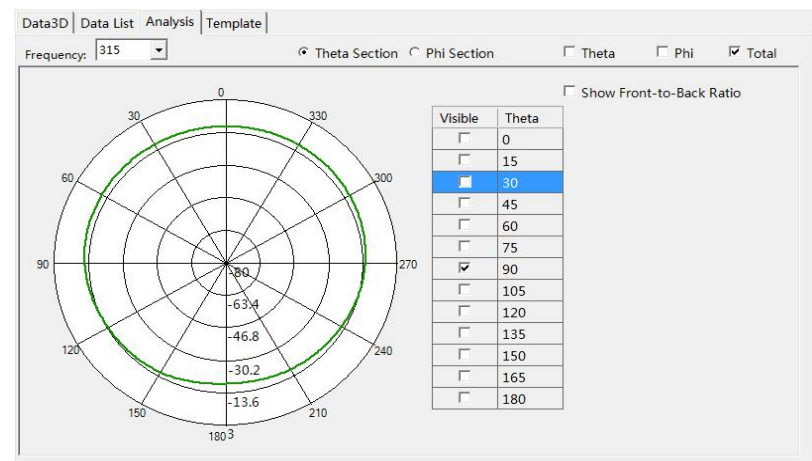
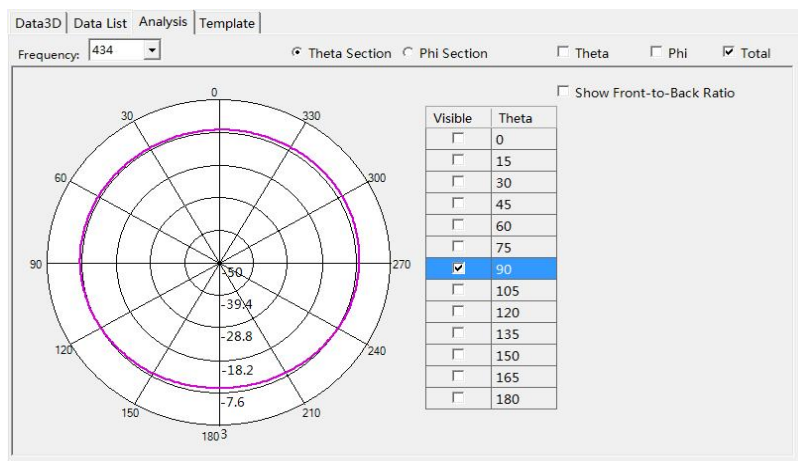
chNo	Freq	TRP	PeakEIRP	Directivity	Gain	Efficiency_dB	Efficiency_Percent
1	312	-14.90	-8.30	6.23	-8.30	-14.90	3.23
2	313	-14.77	-8.32	5.95	-8.32	-14.77	3.33
3	314	-14.73	-8.31	5.59	-8.31	-14.73	3.36
4	315	-14.60	-8.37	5.65	-8.37	-14.60	3.46
5	316	-14.58	-8.41	5.26	-8.41	-14.58	3.48
6	317	-14.60	-8.35	5.13	-8.35	-14.60	3.46
7	431	-9.99	-6.62	3.37	-6.62	-9.99	10.02
8	432	-9.92	-6.29	3.63	-6.29	-9.92	10.18
9	433	-9.84	-6.32	3.51	-6.32	-9.84	10.37
10	434	-9.75	-6.37	3.38	-6.37	-9.75	10.58
11	435	-9.59	-6.41	3.18	-6.41	-9.59	10.98
12	436	-9.30	-6.39	2.91	-6.39	-9.30	11.74

3.5 3D



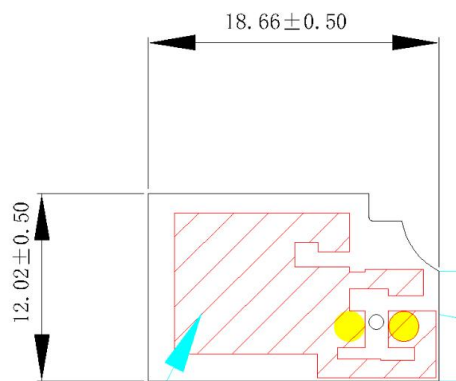
团结 严谨 自律 进取

3.6 2D

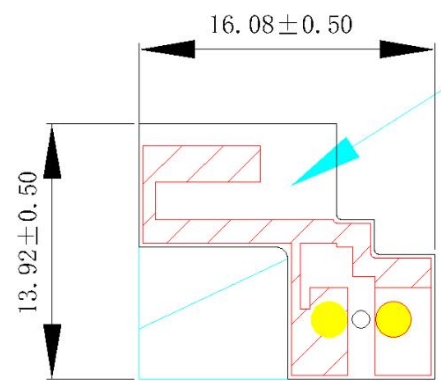


团结 严谨 自律 进取

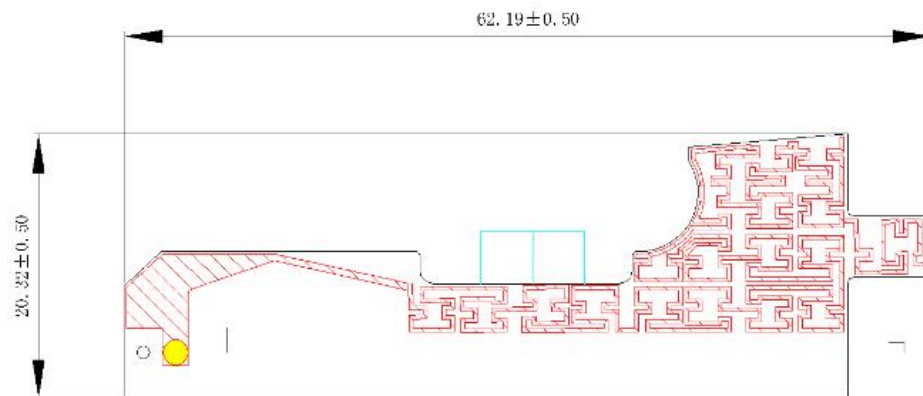
Antenna specifications



Dual-band



ESP



315/433