

MT578 WIFI2 Antenna

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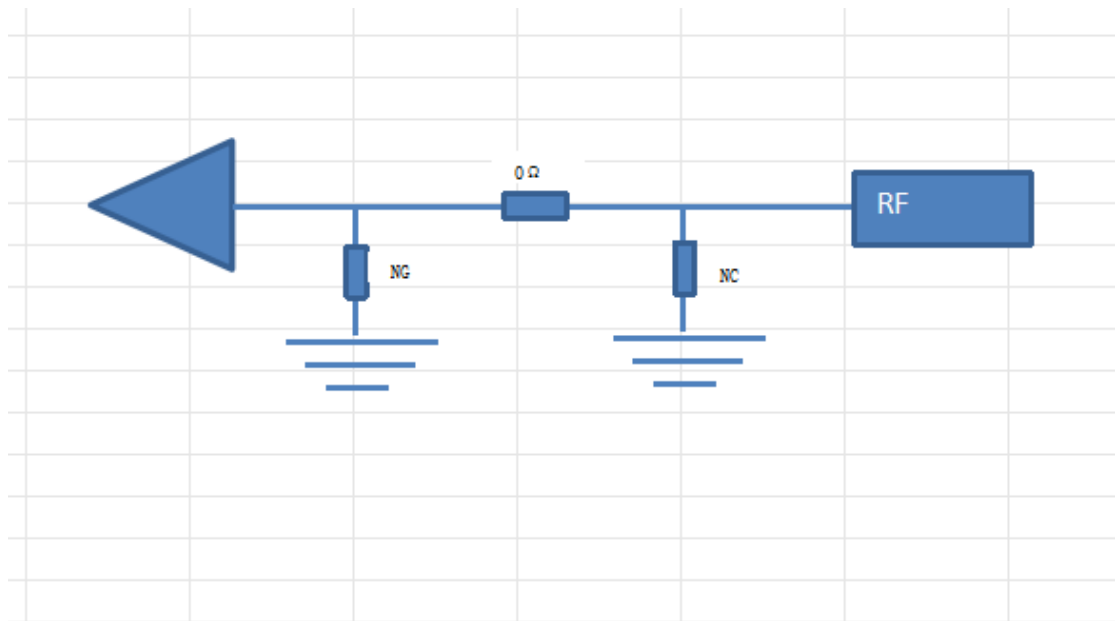
1. Project images



1. Testing fixtures

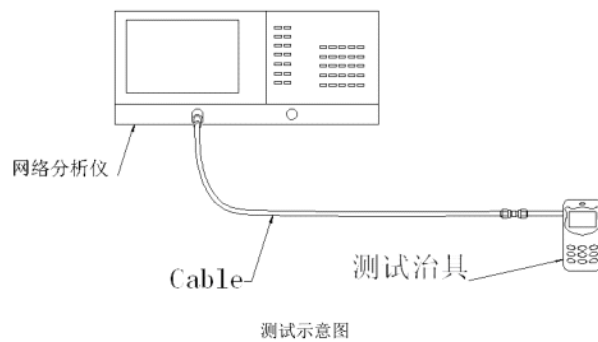


1. Matching



1. S11 test

4.0 S11 test method

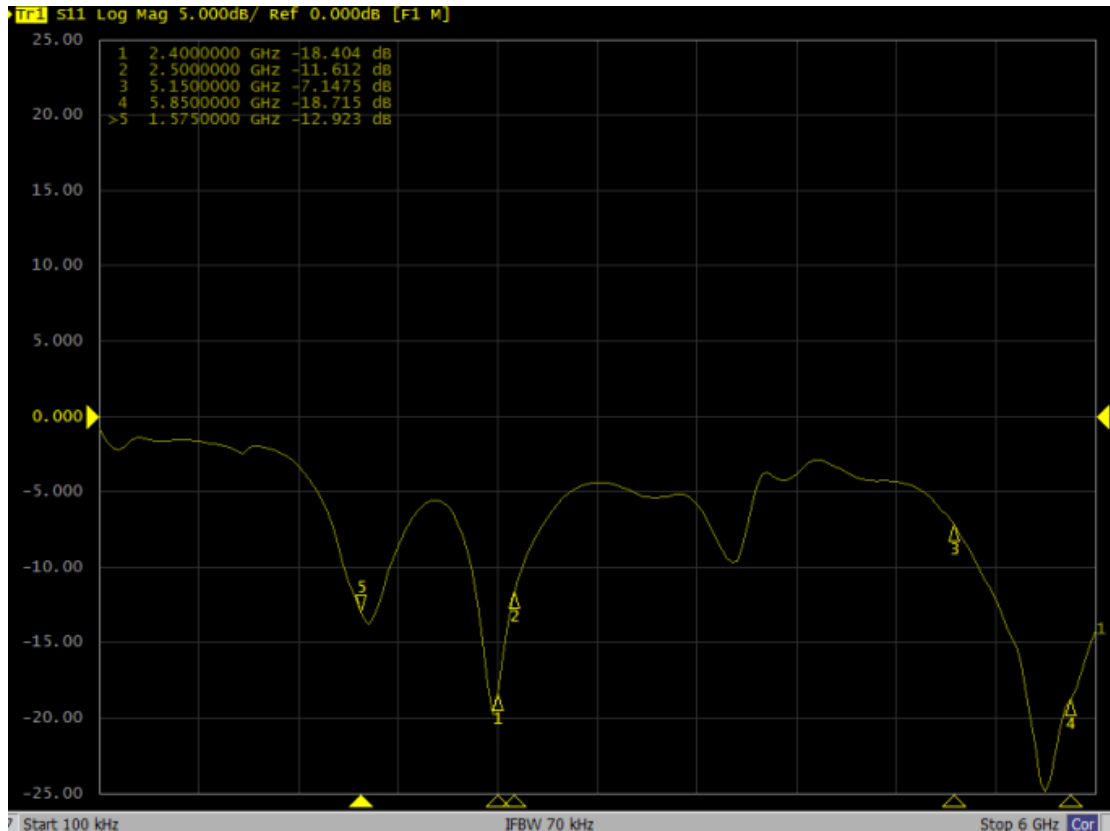


4.1 S11 parameter

频率 (MHZ)	1575	2400	2500	5150	5850
RL	-18.4	-11.6	-7.14	-18.7	-12.9

4.2 Parameter image

4.2.1 Return loss



5. Darkroom test data

5.0 Testing equipment

Testing equipment

Test system: shielded darkroom

Test environment: temperature $22\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$, humidity $50\% \pm 15\%$

Test equipment: When testing passive data, use a network analyzer **Agilent 8753ES**

When testing active data, use a comprehensive tester **CMW**

500

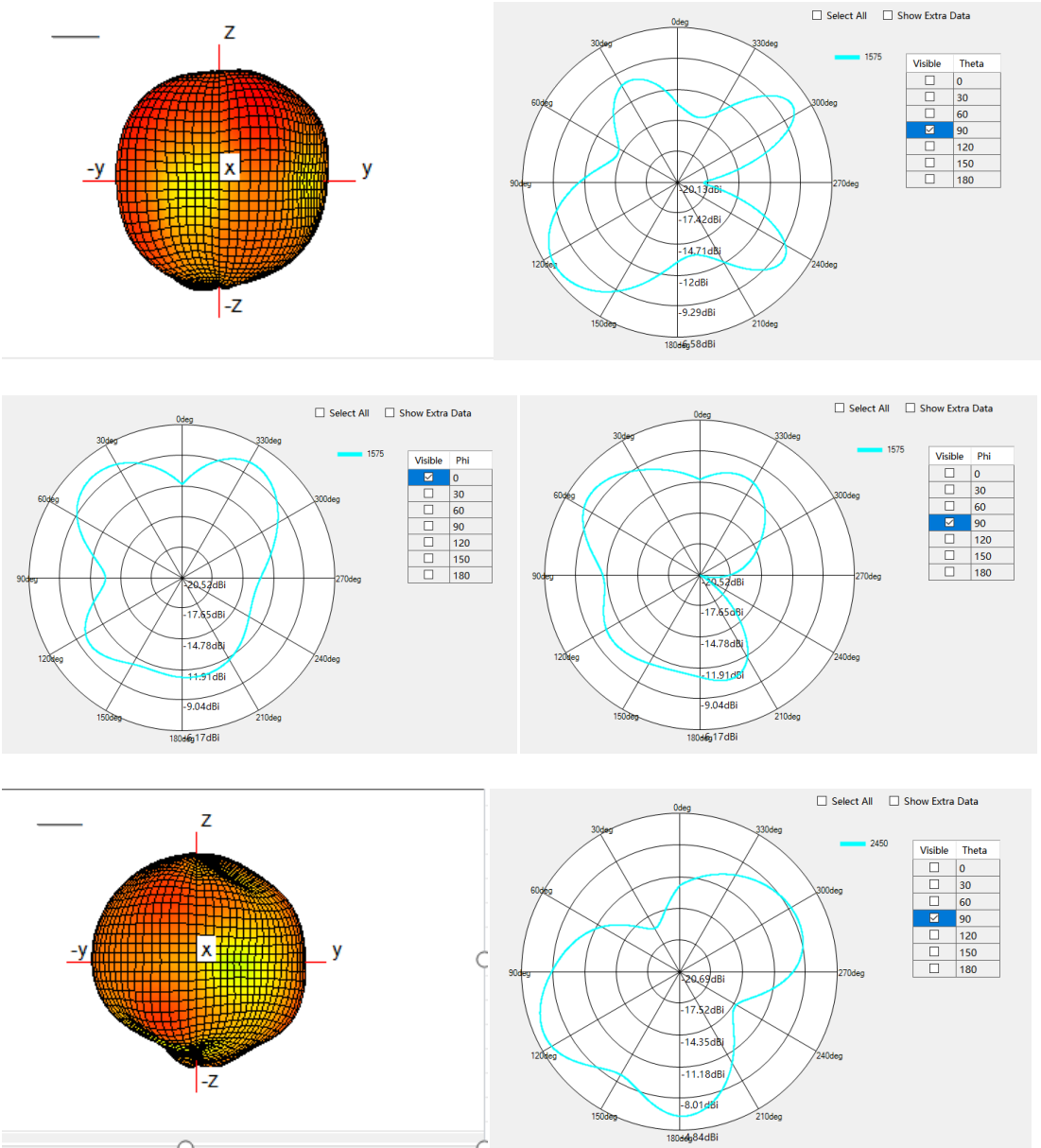
5.1 Passive data

Frequency/Mhz	Efficiency / dB	Gain/dBi	Efficiency / %
1500	-4.43	-2.1	36.06
1505	-4.42	-2.09	36.15
1510	-4.48	-2.22	35.63
1515	-4.49	-2.21	35.6
1520	-4.36	-1.99	36.63
1525	-4.24	-1.69	37.71
1530	-4.11	-1.39	38.85
1535	-4.01	-1.25	39.76
1540	-3.91	-1.1	40.61
1545	-3.89	-1	40.83
1550	-3.91	-1.07	40.62
1555	-3.94	-1.19	40.35
1560	-3.99	-1.24	39.92
1565	-4.09	-1.33	39.03
1570	-4.17	-1.41	38.28
1575	-4.18	-1.4	38.16
1580	-4.16	-1.32	38.4
1585	-4.18	-1.36	38.18
1590	-4.24	-1.54	37.68
1595	-4.35	-1.47	36.73
1600	-4.48	-1.58	35.65
1605	-4.53	-1.57	35.2
1610	-4.5	-1.52	35.5
1615	-4.49	-1.56	35.53
1620	-4.56	-1.58	34.96
1625	-4.62	-1.61	34.52
1630	-4.65	-1.63	34.25
1635	-4.72	-1.65	33.69
1640	-4.81	-1.59	33.05
1645	-4.83	-1.59	32.9
1650	-4.83	-1.58	32.91
2400	-4.67	1.8	34.12
2410	-4.45	2.05	35.9
2420	-4.39	2.12	36.36
2430	-4.47	2.02	35.74
2440	-4.41	2.09	36.26
2450	-4.47	2.13	35.7
2460	-4.57	1.99	34.95
2470	-4.54	2.05	35.18
2480	-4.5	2.18	35.44
2490	-4.66	2.11	34.17
2500	-4.74	2.07	33.54
2510	-4.6	2.15	34.65
2520	-4.54	2.28	35.19
2530	-4.51	2.37	35.43
2540	-4.36	2.49	36.67
2550	-4.44	2.56	35.98
2560	-4.63	2.4	34.44
2570	-4.7	2.43	33.92

2580	-4.61	2.52	34.61
2590	-4.68	2.44	34.03
2600	-5.08	2.06	31.07
5000	-8.09	-1.93	15.52
5020	-8.06	-1.83	15.65
5040	-8.02	-1.83	15.77
5060	-7.82	-1.64	16.53
5080	-8.09	-1.93	15.53
5100	-7.64	-1.58	17.24
5120	-7.52	-1.43	17.72
5140	-6.8	-0.64	20.92
5160	-6.43	-0.2	22.77
5180	-6.28	-0.05	23.54
5200	-6.52	-0.42	22.27
5220	-6.1	-0.26	24.56
5240	-6.02	-0.2	25.01
5260	-5.41	0.55	28.76
5280	-5.39	0.85	28.92
5300	-5.14	1.32	30.61
5320	-5.02	1.37	31.48
5340	-5.06	1.12	31.18
5360	-5.23	1.17	30.01
5380	-5.09	1.74	30.96
5400	-5.66	1.31	27.14
5420	-5.68	1.42	27.04
5440	-5.38	1.88	28.99
5460	-5.36	2.05	29.08
5480	-4.86	2.58	32.7
5500	-5.28	2.14	29.64
5520	-5.09	2.25	30.96
5540	-5.06	2.53	31.2
5560	-5.58	1.97	27.64
5580	-5.5	2.05	28.16
5600	-6.38	0.82	23.01
5620	-6.19	1.13	24.03
5640	-5.66	1.56	27.14
5660	-5.99	1.1	25.2
5680	-5.52	1.25	28.06
5700	-5.56	1.44	27.83
5720	-5.99	1.3	25.16
5740	-5.82	1.27	26.2
5760	-6.02	0.86	24.98
5780	-6.74	-0.04	21.17
5800	-6.66	0.12	21.58
5820	-7.18	-0.37	19.12
5840	-6.28	0.32	23.55
5860	-6.78	-0.77	21.01
5880	-6.45	-0.69	22.67
5900	-6.32	-0.44	23.34
5920	-6.5	-0.26	22.38
5940	-6.39	-0.08	22.96
5960	-6.78	-0.49	21.01

5980	-6.87	-0.6	20.55
6000	-7.11	-0.95	19.46

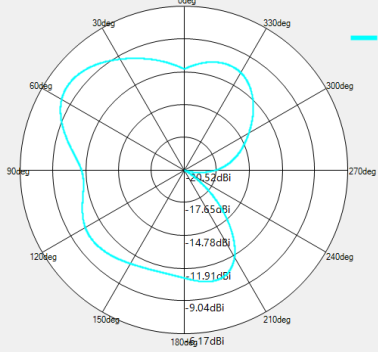
5.2 3D map/directional map



Select All

Show Extra Data

1575



Visible	Phi
☐	0
☐	30
☐	60
☒	90
☐	120
☐	150
☐	180

20.53 dBi

-17.55 dBi

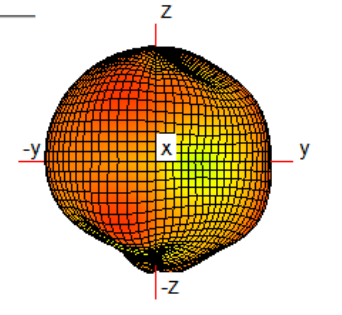
-14.78 dBi

-11.91 dBi

-9.04 dBi

180deg

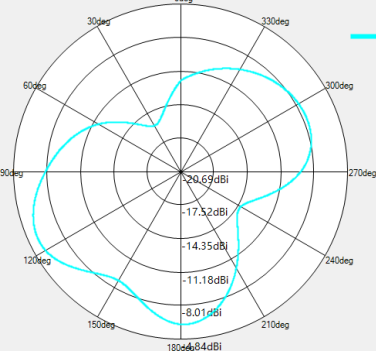
17 dBi



Select All

Show Extra Data

2450



Visible	Theta
☐	0
☐	30
☐	60
☒	90
☐	120
☐	150
☐	180

20.69 dBi

-17.52 dBi

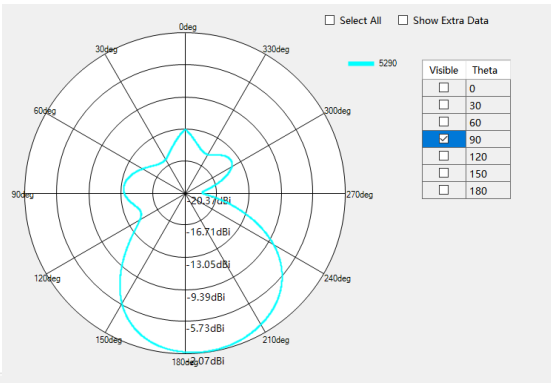
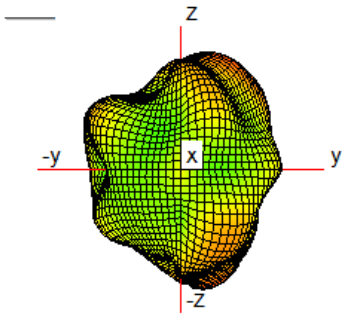
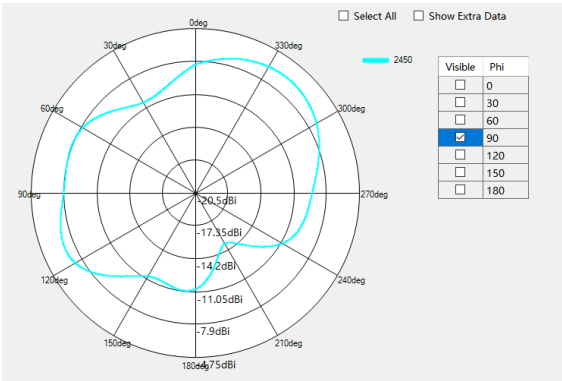
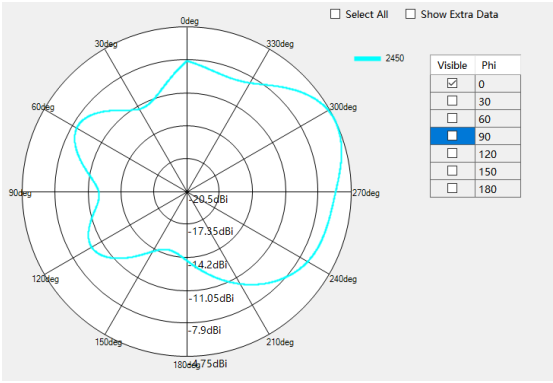
-14.35 dBi

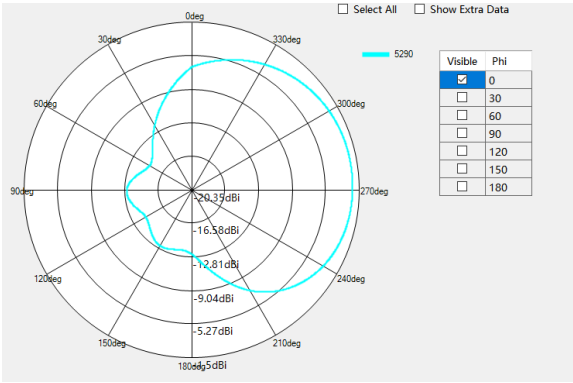
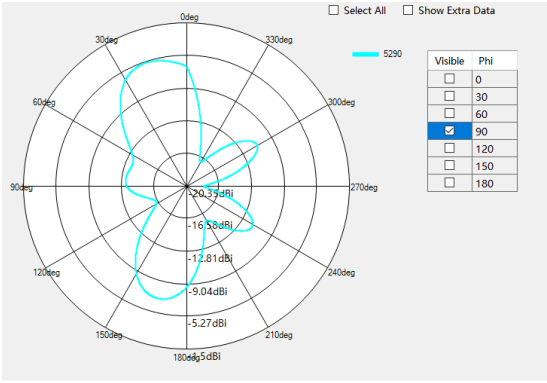
-11.18 dBi

-8.01 dBi

180deg

8.4 dBi





6. drawing

