

MT578 WIFI2 Antenna catalogue

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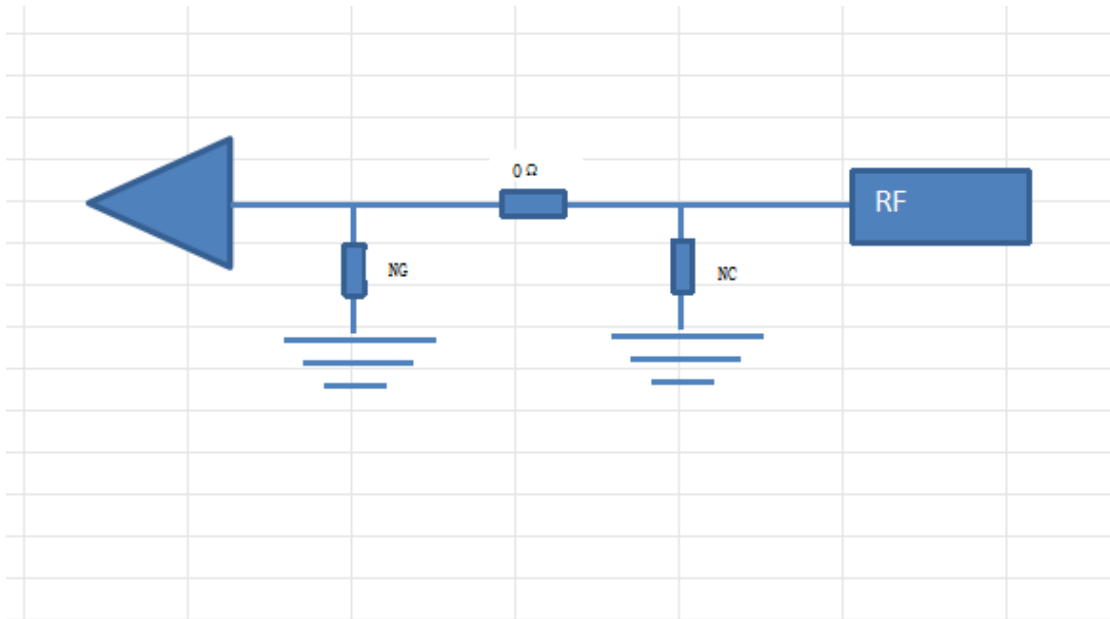
5.2 Passive data

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1. Project images

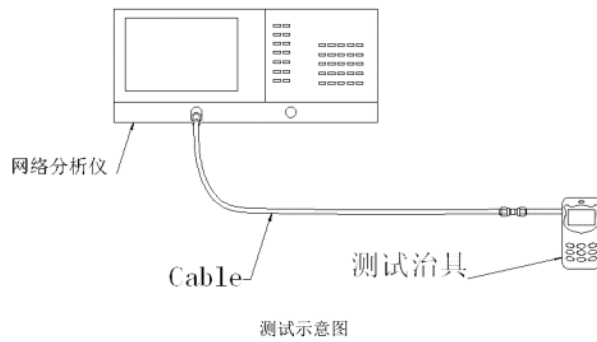
1. Testing fixtures

1. Matching



1. S11 test

4.0 S11 test method

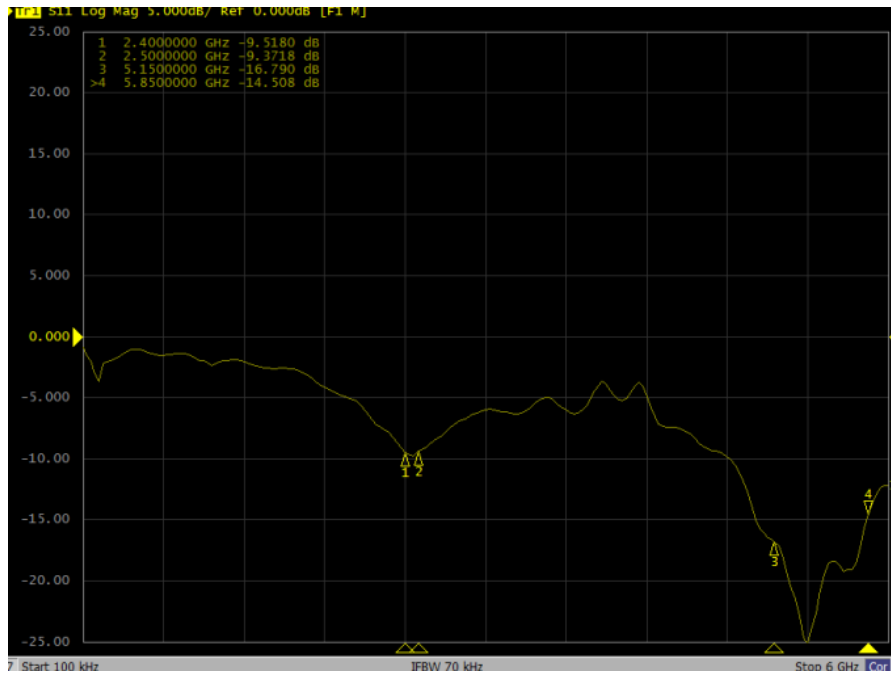


4.1 S11 parameter

| | | | | |
|-----------------|-------|-------|-------|-------|
| frequency (MHZ) | 2400 | 2500 | 5150 | 5850 |
| RL | -9.51 | -9.37 | -16.7 | -14.5 |

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

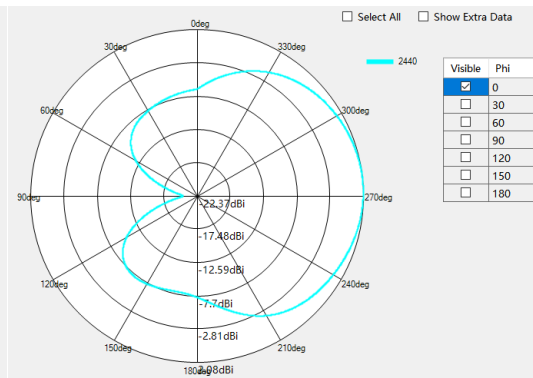
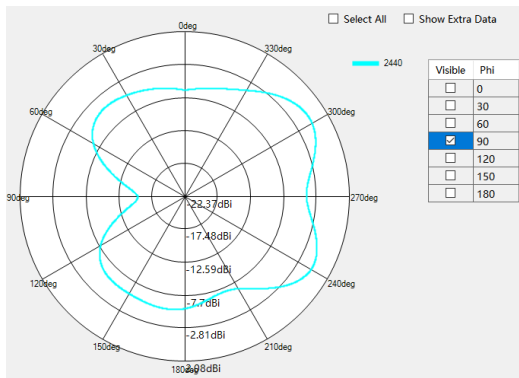
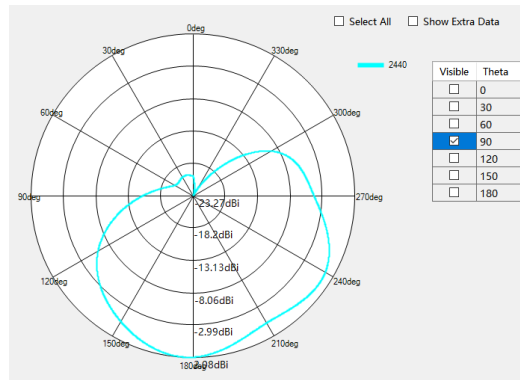
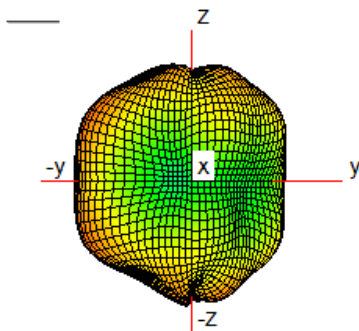
5.1 Passive data

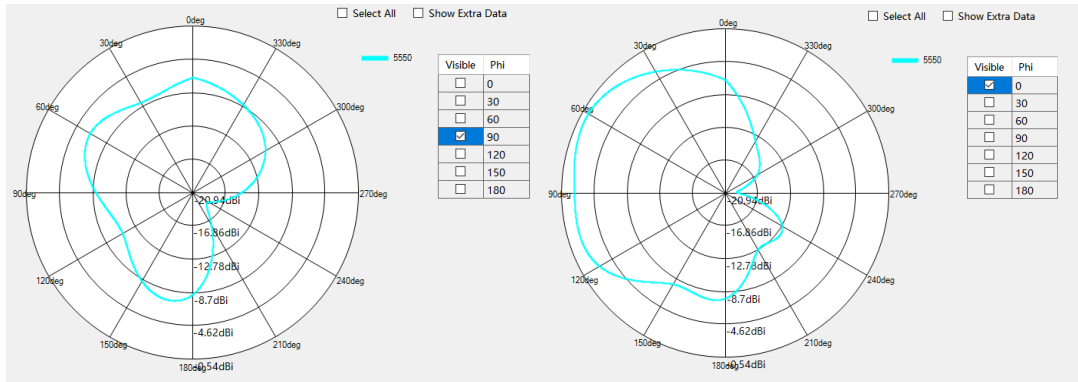
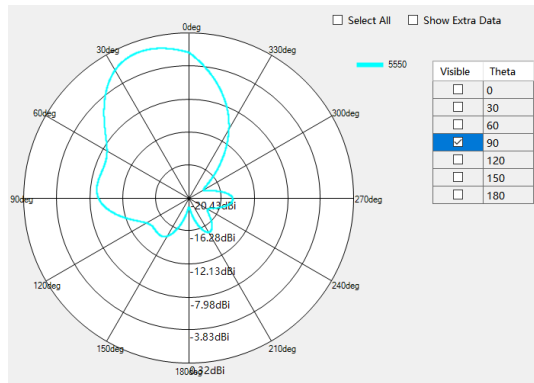
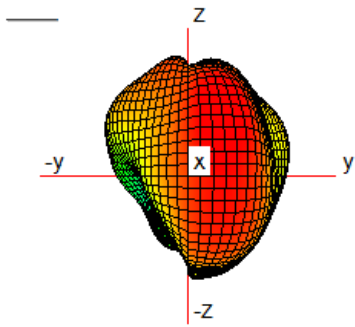
| Frequency/Mhz | Efficiency / dB | Gain/dBi | Efficiency / % |
|---------------|-----------------|----------|----------------|
| 2400 | -4.66 | 0.08 | 34.22 |
| 2410 | -4.43 | 0.38 | 36.05 |

| | | | |
|------|-------|-------|-------|
| 2420 | -4.31 | 0.48 | 37.1 |
| 2430 | -4.25 | 0.51 | 37.55 |
| 2440 | -4.19 | 0.52 | 38.14 |
| 2450 | -4.28 | 0.36 | 37.37 |
| 2460 | -4.34 | 0.22 | 36.86 |
| 2470 | -4.3 | -0.02 | 37.16 |
| 2480 | -4.32 | -0.27 | 36.99 |
| 2490 | -4.44 | -0.53 | 35.99 |
| 2500 | -4.48 | -0.89 | 35.64 |
| 2510 | -4.44 | -1.01 | 35.94 |
| 2520 | -4.49 | -1.26 | 35.54 |
| 2530 | -4.61 | -1.63 | 34.61 |
| 2540 | -4.55 | -1.64 | 35.11 |
| 2550 | -4.68 | -1.81 | 34.02 |
| 2560 | -4.92 | -1.93 | 32.23 |
| 2570 | -5.08 | -1.91 | 31.02 |
| 2580 | -5.07 | -1.82 | 31.12 |
| 2590 | -5.18 | -1.76 | 30.36 |
| 2600 | -5.54 | -2.05 | 27.95 |
| 5000 | -5.65 | 1.49 | 27.22 |
| 5020 | -5.67 | 1.46 | 27.12 |
| 5040 | -5.63 | 1.54 | 27.37 |
| 5060 | -5.36 | 1.63 | 29.1 |
| 5080 | -5.71 | 1.45 | 26.86 |
| 5100 | -5.65 | 2 | 27.21 |
| 5120 | -5.82 | 2.15 | 26.16 |
| 5140 | -5.67 | 2.61 | 27.11 |
| 5160 | -5.64 | 2.81 | 27.31 |
| 5180 | -5.89 | 2.74 | 25.78 |
| 5200 | -6.33 | 2.21 | 23.3 |
| 5220 | -5.99 | 2.43 | 25.21 |
| 5240 | -5.91 | 2.75 | 25.62 |
| 5260 | -5.6 | 2.05 | 27.52 |
| 5280 | -5.53 | 2.37 | 27.99 |
| 5300 | -5.51 | 2.38 | 28.13 |
| 5320 | -5.3 | 2.53 | 29.54 |
| 5340 | -5.24 | 2.59 | 29.91 |
| 5360 | -5.49 | 2.31 | 28.25 |
| 5380 | -5.43 | 2.33 | 28.65 |
| 5400 | -5.89 | 2.6 | 25.79 |
| 5420 | -5.85 | 2.83 | 26 |
| 5440 | -5.23 | 2.01 | 30 |
| 5460 | -5.31 | 2.84 | 29.46 |
| 5480 | -4.68 | 2.08 | 34.04 |
| 5500 | -5.1 | 2.46 | 30.91 |
| 5520 | -4.91 | 2.62 | 32.28 |
| 5540 | -4.85 | 2.32 | 32.73 |
| 5560 | -5.27 | 2.31 | 29.69 |
| 5580 | -5.16 | 2.67 | 30.49 |
| 5600 | -5.75 | 2.22 | 26.6 |
| 5620 | -5.71 | 1.99 | 26.87 |
| 5640 | -5 | 2.58 | 31.59 |

| | | | |
|------|-------|------|-------|
| 5660 | -5.11 | 2.43 | 30.84 |
| 5680 | -4.5 | 2.6 | 35.45 |
| 5700 | -4.52 | 2.38 | 35.31 |
| 5720 | -5.18 | 1.49 | 30.35 |
| 5740 | -4.65 | 2.64 | 34.26 |
| 5760 | -4.66 | 2.89 | 34.17 |
| 5780 | -5.11 | 2.69 | 30.82 |
| 5800 | -5.1 | 2.71 | 30.9 |
| 5820 | -5.54 | 2.2 | 27.96 |
| 5840 | -4.85 | 2.63 | 32.72 |
| 5860 | -5.25 | 2.31 | 29.85 |
| 5880 | -5.2 | 2.68 | 30.23 |
| 5900 | -5.12 | 2.94 | 30.78 |
| 5920 | -5.29 | 2.12 | 29.57 |
| 5940 | -5.12 | 2.43 | 30.76 |
| 5960 | -5.37 | 2.19 | 29.03 |
| 5980 | -5.19 | 2.18 | 30.26 |
| 6000 | -5.35 | 2.76 | 29.19 |

5.2 3D map/directional map





6. drawing

