

⑩ 天线测试报告

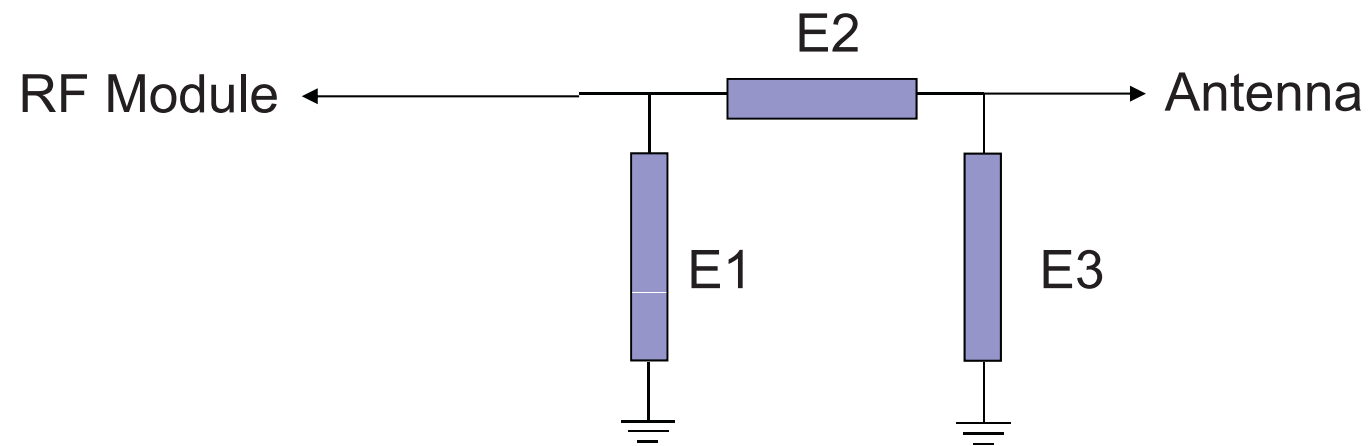
Antenna Test Report

项目名称/Project Name:S140（三诺）

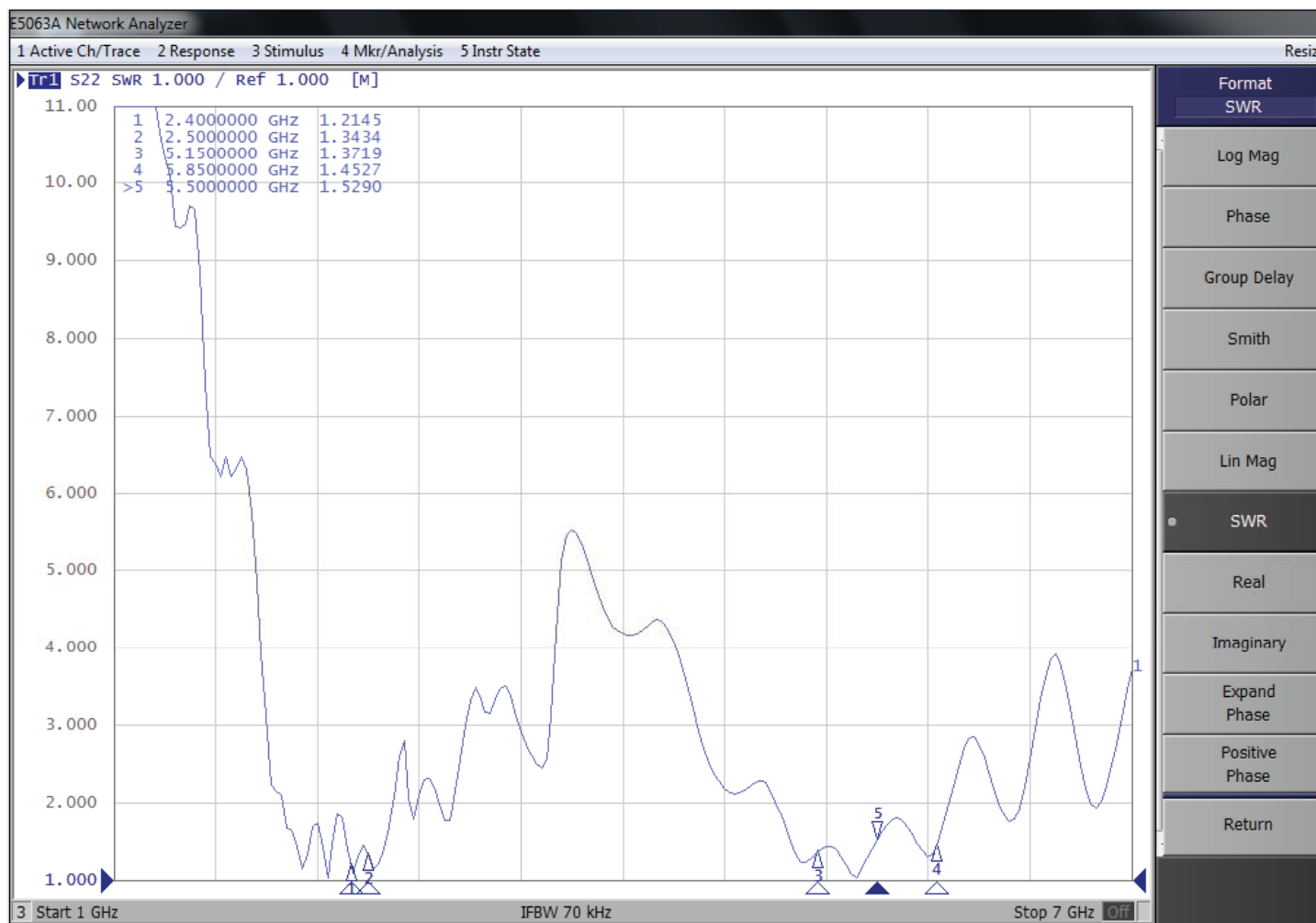
日期/Data:2017.01.19

版本/Ver.1.0

匹配电路



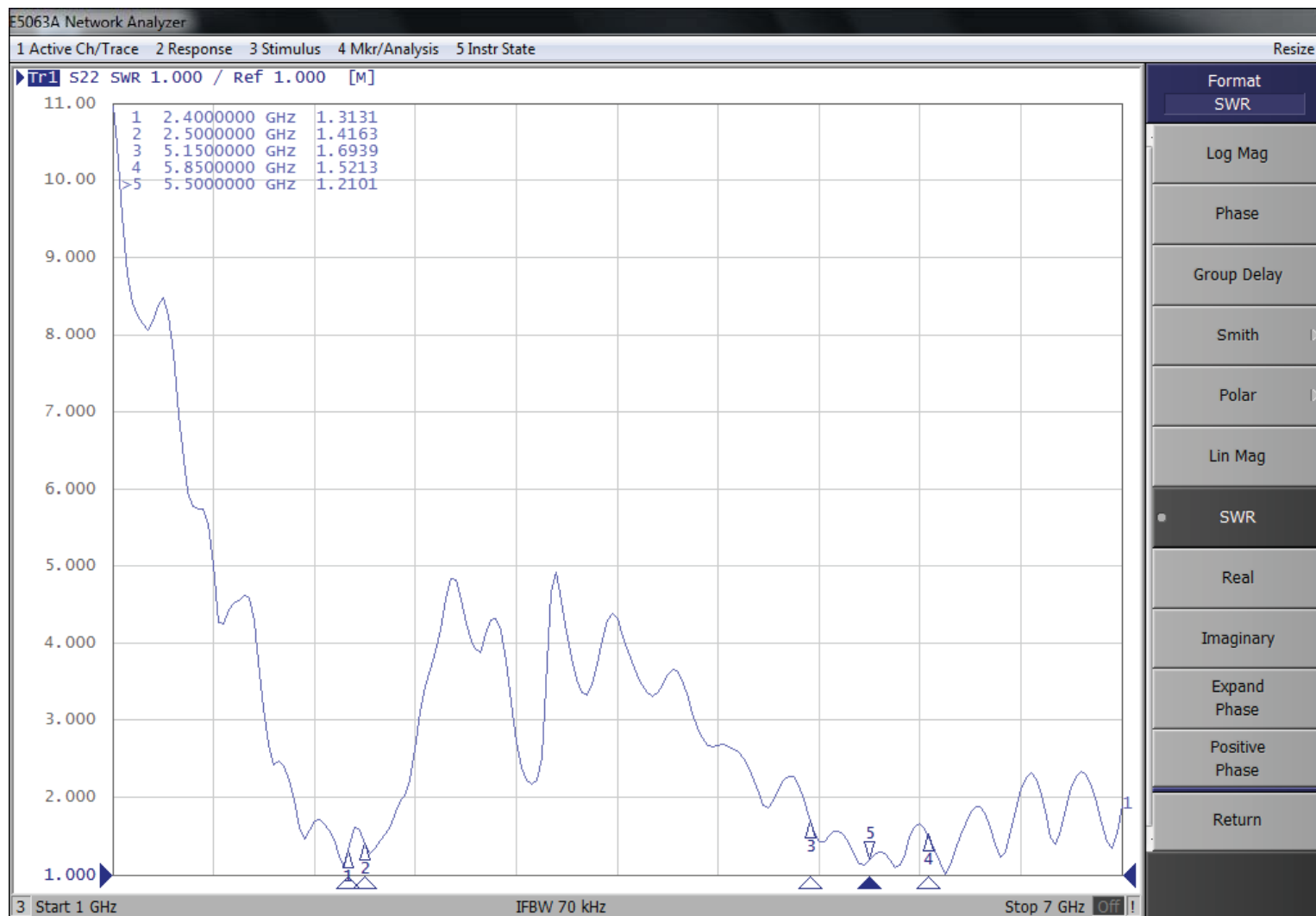
110° Wifi-R天线无源图



110° Wifi-R天线效率&增益

| Passive Test For 2.45G | | | | Passive Test For 5.8G | | | |
|------------------------|-------------|--------------|---------------|-----------------------|-------------|--------------|---------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 2400 | 45.73 | -3.40 | 3.51 | 5150 | 44.92 | -3.48 | 2.79 |
| 2410 | 48.29 | -3.16 | 3.71 | 5200 | 47.43 | -3.24 | 3.67 |
| 2420 | 49.46 | -3.06 | 3.67 | 5250 | 47.07 | -3.27 | 4.61 |
| 2430 | 50.18 | -2.99 | 3.4 | 5300 | 50.15 | -3.00 | 3.84 |
| 2440 | 48.36 | -3.16 | 3.12 | 5350 | 50.51 | -2.97 | 3.11 |
| 2450 | 51.29 | -2.90 | 3.17 | 5400 | 51.21 | -2.91 | 3.88 |
| 2460 | 50.81 | -2.94 | 3.07 | 5450 | 50.22 | -2.99 | 4.69 |
| 2470 | 49.27 | -3.07 | 2.86 | 5500 | 47.59 | -3.22 | 3.86 |
| 2480 | 50.5 | -2.97 | 2.82 | 5550 | 45.72 | -3.40 | 2.75 |
| 2490 | 52.96 | -2.76 | 2.77 | 5600 | 47.82 | -3.20 | 2.51 |
| 2500 | 52.96 | -2.76 | 2.41 | 5650 | 45.98 | -3.37 | 2.83 |
| | | | | 5700 | 51.69 | -2.87 | 2.29 |
| | | | | 5750 | 44.24 | -3.54 | 1.73 |
| | | | | 5800 | 44.75 | -3.49 | 3.7 |
| | | | | 5850 | 44.97 | -3.47 | 3.86 |

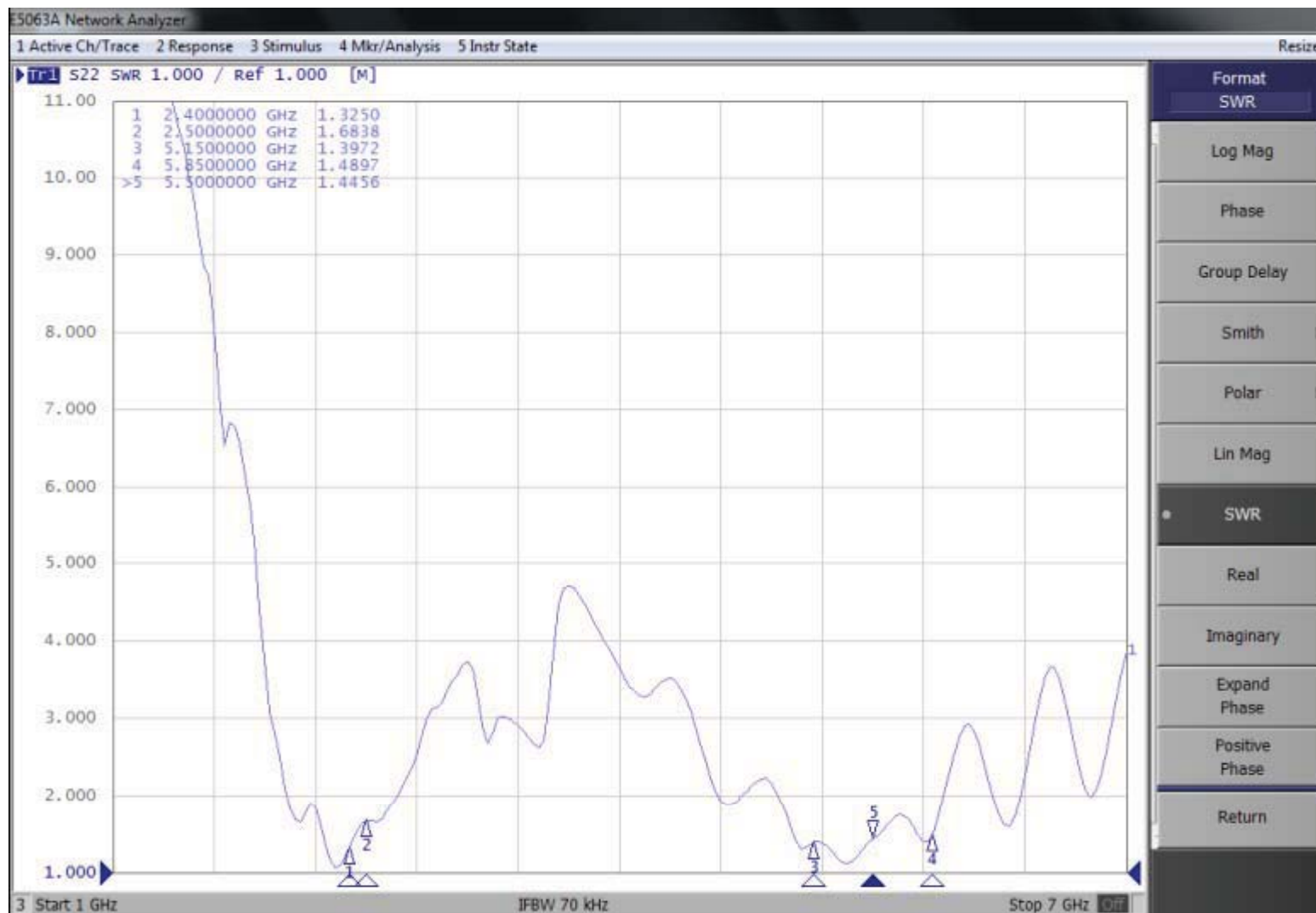
110° Wifi-L天线无源图



110° Wifi-L天线效率&增益

| Passive Test For 2.45G | | | | Passive Test For 5.8G | | | |
|------------------------|----------|-----------|------------|-----------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 2400 | 40.42 | -3.93 | 2.86 | 5150 | 35.46 | -4.50 | 1.09 |
| 2410 | 39.87 | -3.99 | 2.71 | 5200 | 38.05 | -4.20 | 1.68 |
| 2420 | 40.21 | -3.96 | 2.62 | 5250 | 42.64 | -3.70 | 3.03 |
| 2430 | 38.82 | -4.11 | 2.5 | 5300 | 42.26 | -3.74 | 3.42 |
| 2440 | 36.85 | -4.34 | 2.37 | 5350 | 43.09 | -3.66 | 4.45 |
| 2450 | 39.85 | -4.00 | 2.51 | 5400 | 45.69 | -3.40 | 4.12 |
| 2460 | 39.49 | -4.04 | 2.23 | 5450 | 47.58 | -3.23 | 4.66 |
| 2470 | 39.39 | -4.05 | 2.14 | 5500 | 45.39 | -3.43 | 4.43 |
| 2480 | 42.04 | -3.76 | 2.39 | 5550 | 46.91 | -3.29 | 3.55 |
| 2490 | 45.16 | -3.45 | 2.5 | 5600 | 47.2 | -3.26 | 4.49 |
| 2500 | 42.32 | -3.73 | 2.6 | 5650 | 45.4 | -3.43 | 4.14 |
| | | | | 5700 | 46.08 | -3.36 | 4.15 |
| | | | | 5750 | 41.69 | -3.80 | 3.12 |
| | | | | 5800 | 43.02 | -3.66 | 3.34 |
| | | | | 5850 | 45.19 | -3.45 | 2.6 |

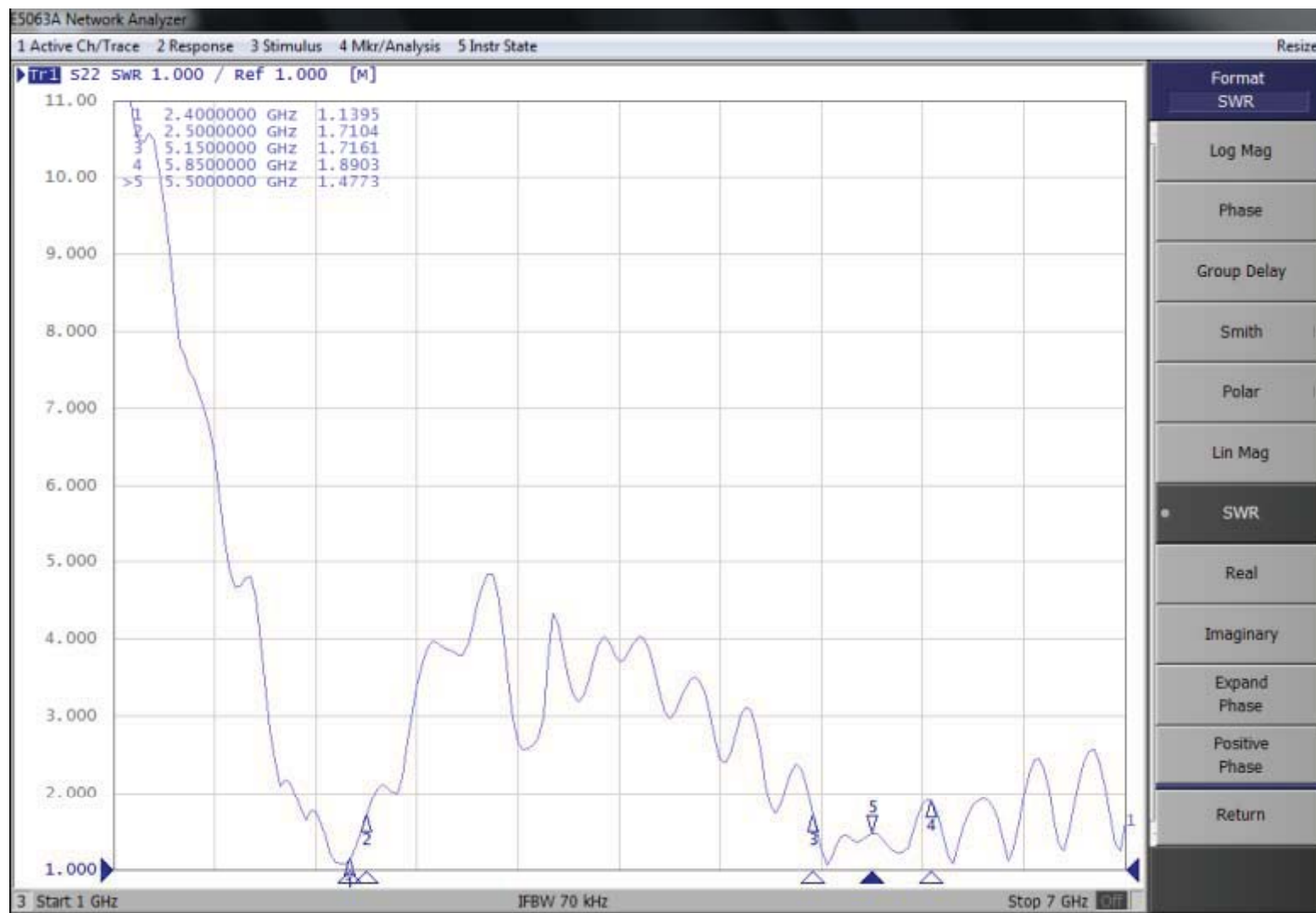
0° Wifi-R天线无源图



0° Wifi-R天线效率&增益

| Passive Test For 2.45G | | | | Passive Test For 5.8G | | | |
|------------------------|----------|-----------|------------|-----------------------|----------|-----------|------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 2400 | 41.32 | -3.84 | 0.66 | 5150 | 41.98 | -3.77 | 1.16 |
| 2410 | 42.08 | -3.76 | 0.83 | 5200 | 40.31 | -3.95 | 2.09 |
| 2420 | 42.11 | -3.76 | 0.83 | 5250 | 47.56 | -3.23 | 2.58 |
| 2430 | 41.39 | -3.83 | 0.8 | 5300 | 46.19 | -3.35 | 2.86 |
| 2440 | 40.46 | -3.93 | 0.85 | 5350 | 42.44 | -3.72 | 3.97 |
| 2450 | 44.12 | -3.55 | 1 | 5400 | 45.24 | -3.44 | 2.99 |
| 2460 | 42.29 | -3.74 | 0.68 | 5450 | 48.44 | -3.15 | 4.59 |
| 2470 | 42.29 | -3.74 | 0.34 | 5500 | 47.68 | -3.22 | 2.52 |
| 2480 | 43.84 | -3.58 | 1.06 | 5550 | 45.03 | -3.46 | 3.48 |
| 2490 | 43.87 | -3.58 | 1.45 | 5600 | 41.49 | -3.82 | 3.13 |
| 2500 | 44.42 | -3.52 | 1.94 | 5650 | 42.21 | -3.75 | 3.68 |
| | | | | 5700 | 42.82 | -3.68 | 4.14 |
| | | | | 5750 | 43.8 | -3.59 | 2.32 |
| | | | | 5800 | 45.33 | -3.44 | 3.57 |
| | | | | 5850 | 46.52 | -3.32 | 3.34 |

0° Wifi-L天线无源图



0° Wifi-L天线效率&增益

| Passive Test For 2.45G | | | | Passive Test For 5.8G | | | |
|------------------------|-------------|--------------|---------------|-----------------------|-------------|--------------|---------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) | Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 2400 | 36.79 | -4.34 | 0.69 | 5150 | 33.37 | -4.77 | 0.58 |
| 2410 | 36.79 | -4.34 | 1.04 | 5200 | 37.13 | -4.30 | 0.62 |
| 2420 | 37.83 | -4.22 | 1.05 | 5250 | 39.38 | -4.05 | 2 |
| 2430 | 37.52 | -4.26 | 1.45 | 5300 | 38.51 | -4.14 | 1.39 |
| 2440 | 36.08 | -4.43 | 1.31 | 5350 | 41.73 | -3.80 | 2.2 |
| 2450 | 38.96 | -4.09 | 2.03 | 5400 | 41.03 | -3.87 | 2.33 |
| 2460 | 37.59 | -4.25 | 1.71 | 5450 | 43.17 | -3.65 | 2.47 |
| 2470 | 37.38 | -4.27 | 1.73 | 5500 | 39.03 | -4.09 | 2.24 |
| 2480 | 38.94 | -4.10 | 1.87 | 5550 | 40.64 | -3.91 | 1.88 |
| 2490 | 40.53 | -3.92 | 1.79 | 5600 | 39.17 | -4.07 | 1.24 |
| 2500 | 40.67 | -3.91 | 1.72 | 5650 | 40.43 | -3.93 | 1.8 |
| | | | | 5700 | 41.11 | -3.86 | 2.32 |
| | | | | 5750 | 39.13 | -4.07 | 1.6 |
| | | | | 5800 | 40.44 | -3.93 | 2.73 |
| | | | | 5850 | 37.49 | -4.26 | 1.63 |

天线位置

正面

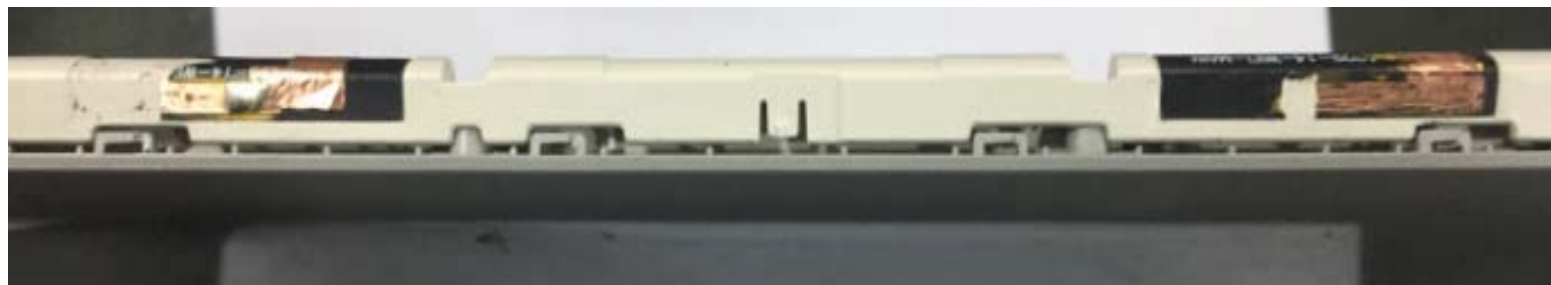
WIFI-R-
MAIN

副天线射频线在主天
线底部穿过去

WIFI-L-
AUX



反面



Thank you!

