

ND52 Antenna Test Report



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|------------------|----------------------|
| Customer | 微星 |
| Project | ND52 |
| Antenna Revision | A2 |
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| Date: | 2018. 5. 12 |

Purpose

This report is to measure the performance of *Surbaner* FPC WIFI BT antenna for 微星-ND52. All test data are shown as below.

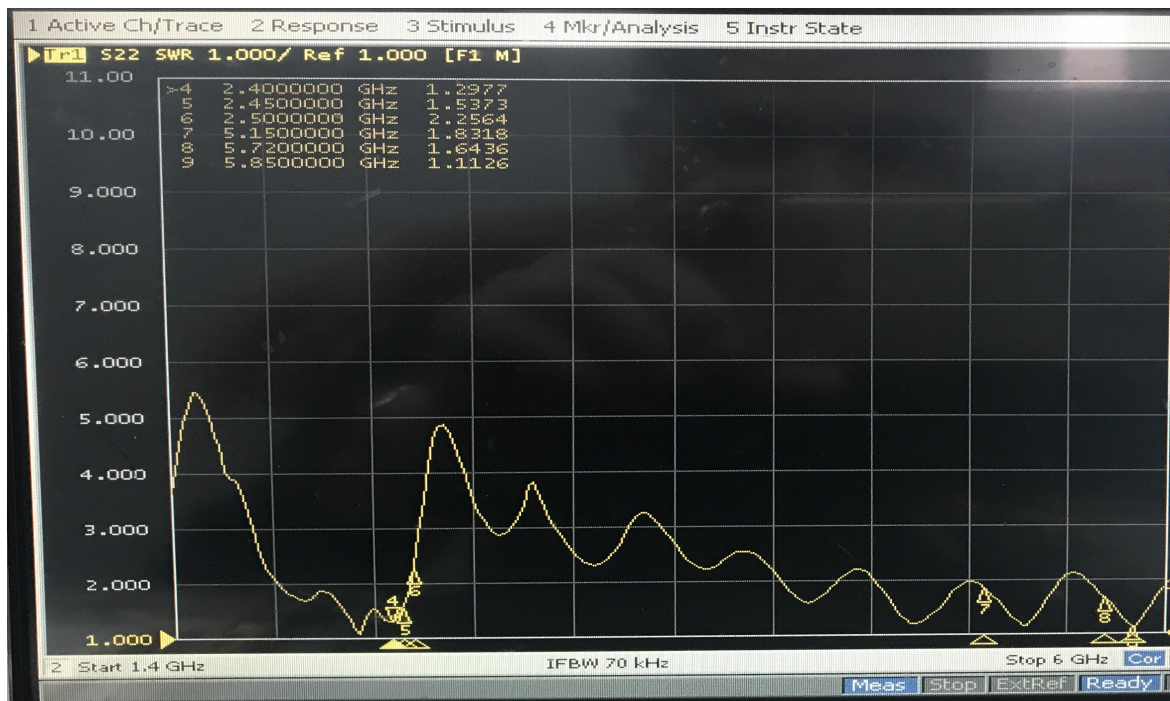
Content

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2. Test Result

2.1 WIFI VSWR

WIFI 1



| | | | | | | |
|-----------------|------|------|------|------|------|------|
| Frequency (MHz) | 2400 | 2450 | 2500 | 5150 | 5720 | 5850 |
| VSWR | 1.29 | 1.53 | 2.25 | 1.83 | 1.64 | 1.11 |

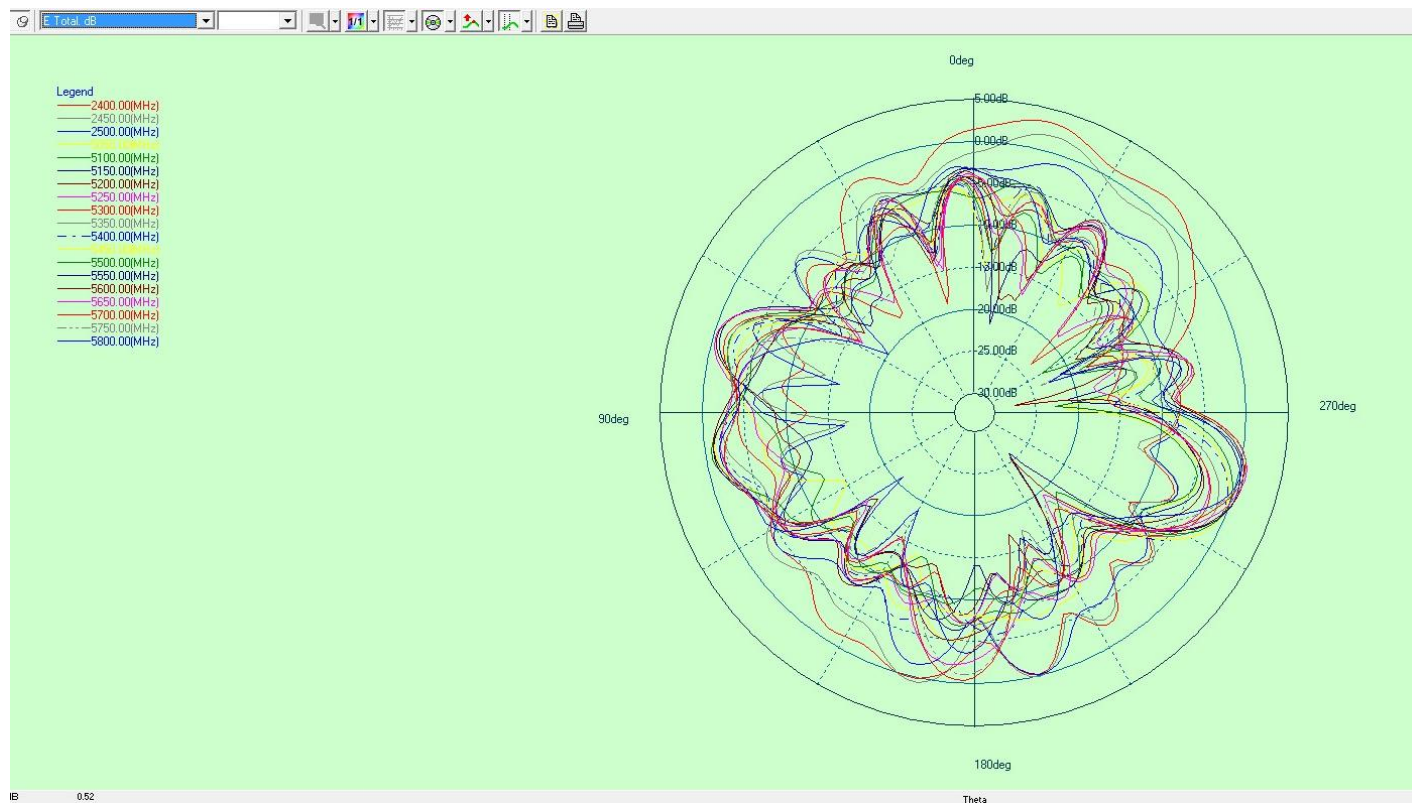
2. Test Result

2.3 GAIN & Efficiency

| Frequency (MHz) | Efficiency (%) | Peak GAIN (dBi) |
|-----------------|----------------|-----------------|
| 2400 | 47.42 | 2.5 |
| 2450 | 43.56 | 2.43 |
| 2500 | 40.12 | 2.01 |
| 5150 | 36.12 | 2.86 |
| 5700 | 40.24 | 3.21 |
| 5850 | 43.41 | 3.34 |

4. Test Result

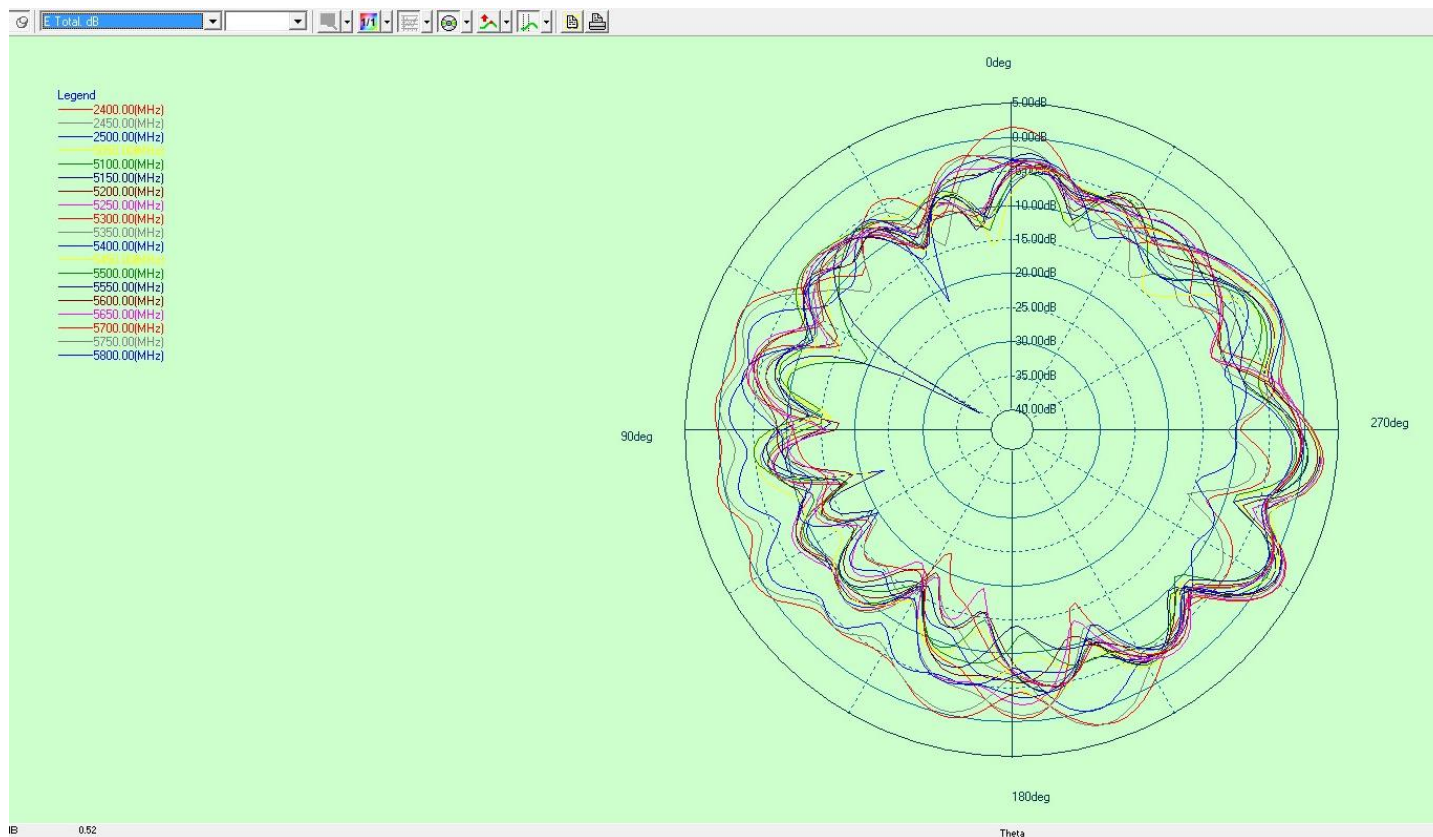
4.4 2D Pattern



X-Z Plane

4. Test Result

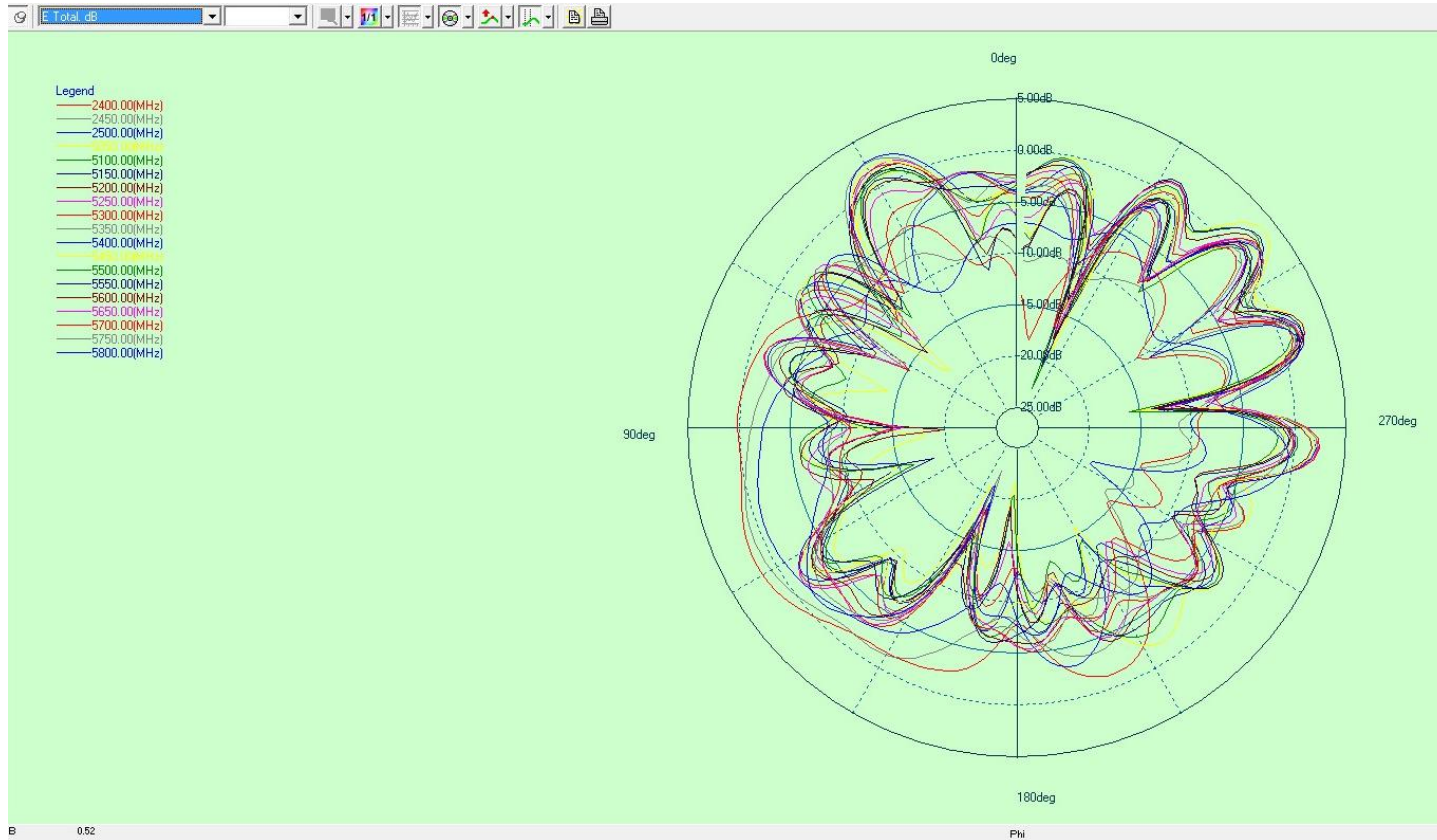
4.4 2D Pattern



Y-Z Plane

4. Test Result

4.4 2D Pattern

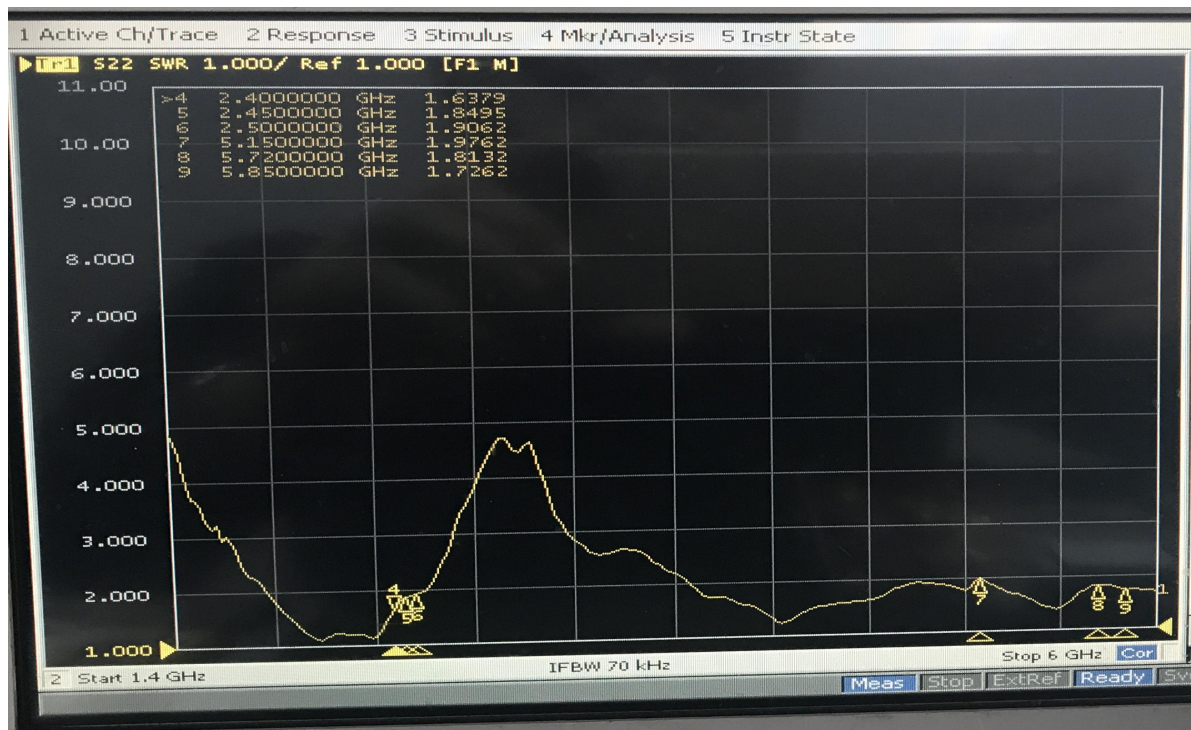


X-Y Plane

2. Test Result

2.1 WIFI VSWR

WIFI 2



| | | | | | | |
|-----------------|------|------|------|------|------|------|
| Frequency (MHz) | 2400 | 2450 | 2500 | 5150 | 5720 | 5850 |
| VSWR | 1.63 | 1.84 | 1.90 | 1.97 | 1.81 | 1.72 |

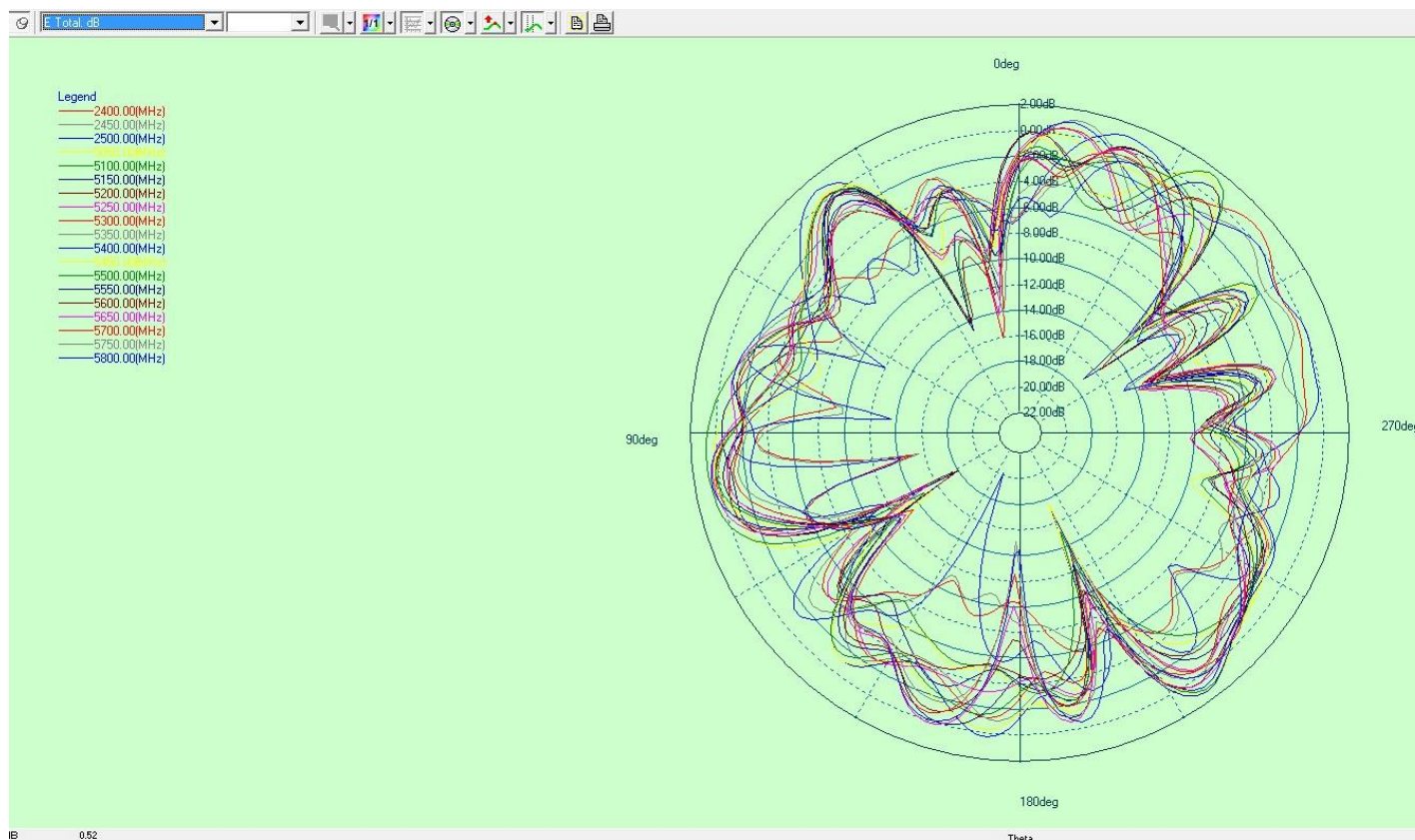
2. Test Result

2.3 GAIN & Efficiency

| Frequency (MHz) | Efficiency (%) | Peak GAIN (dBi) |
|-----------------|----------------|-----------------|
| 2400 | 45.41 | 3.78 |
| 2450 | 42.15 | 3.98 |
| 2500 | 39.65 | 1.86 |
| 5150 | 40.12 | 2.65 |
| 5700 | 41.23 | 2.98 |
| 5850 | 42.41 | 3.12 |

4. Test Result

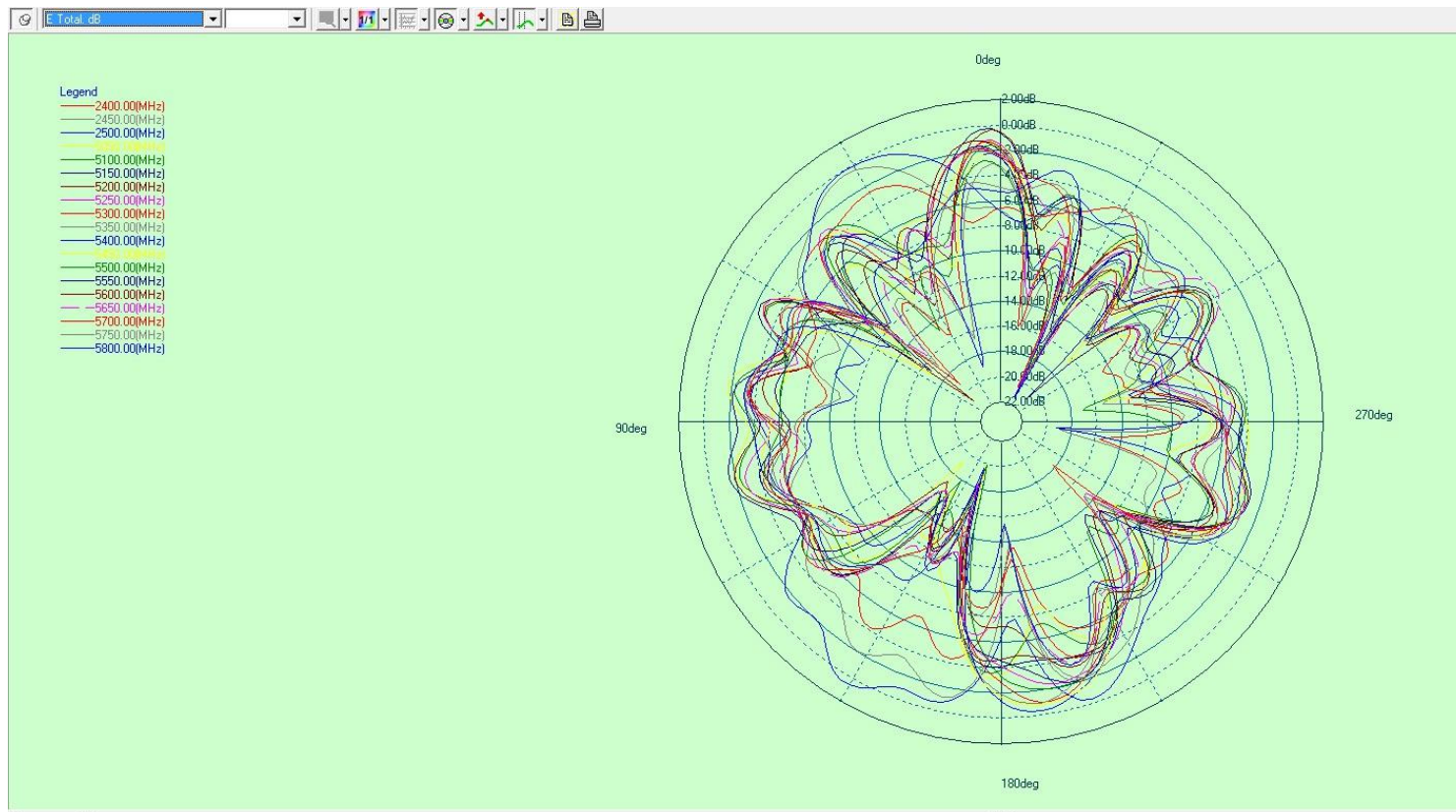
4.4 2D Pattern



X-Z Plane

4. Test Result

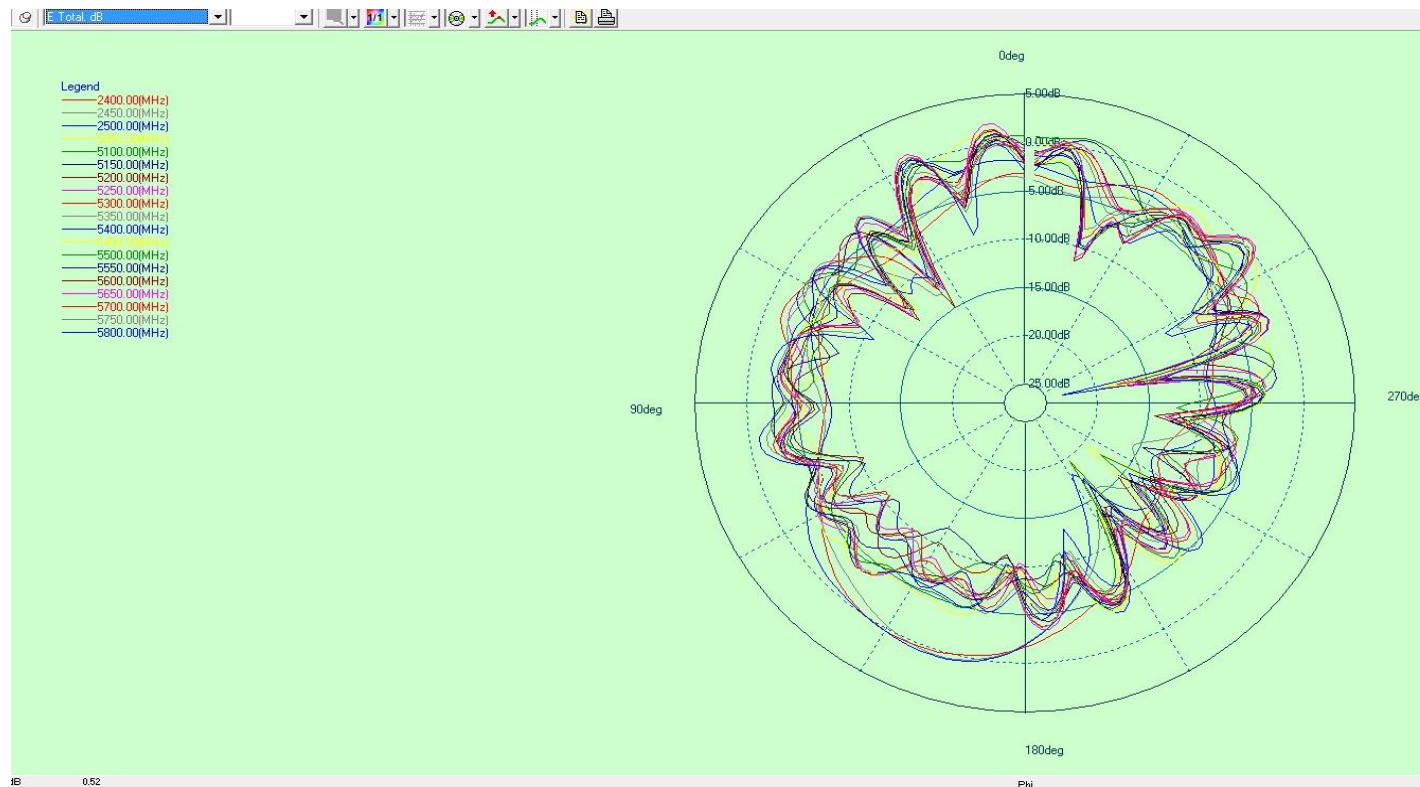
4.4 2D Pattern



Y-Z Plane

4. Test Result

4.4 2D Pattern



X-Y Plane