

# D052 Antenna Test Report

## 1.TEST INSTRUMENTATION

|                                     |                              |
|-------------------------------------|------------------------------|
| <b>CHAMBER</b>                      | <b>SATIMO Chamber</b>        |
| <b>Wireless Networking Test Set</b> | <b>General Test Rzi 1800</b> |
| <b>NETWORK ANALYZER</b>             | <b>Agilent 5072AD</b>        |
| <b>COMPREHENSIVE TESTER</b>         | <b>R&amp;S CMW500</b>        |
| <b>TEMPERATURE</b>                  | <b>25±2℃</b>                 |
| <b>HUMIDITY</b>                     | <b>50±20%rh</b>              |

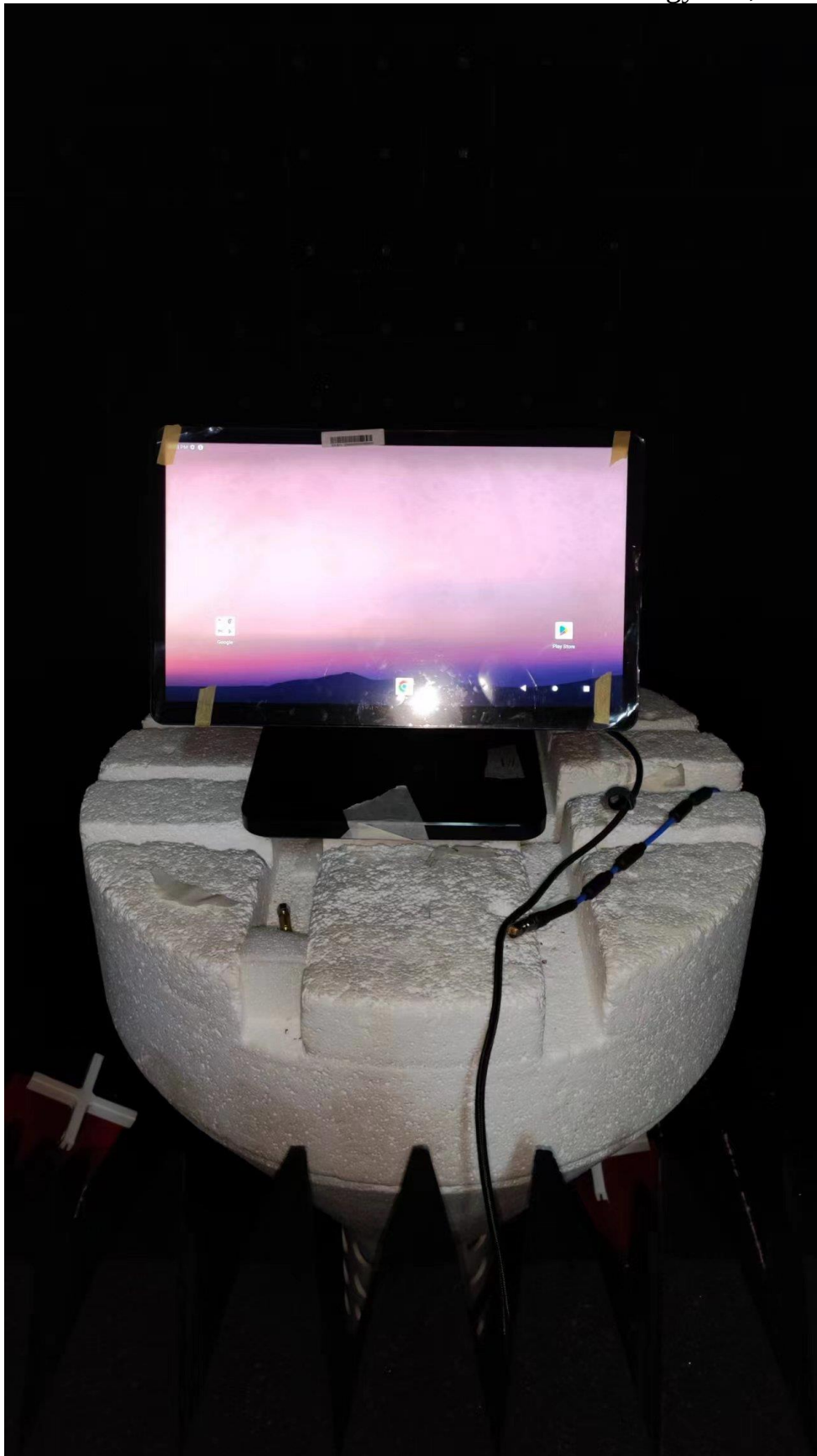


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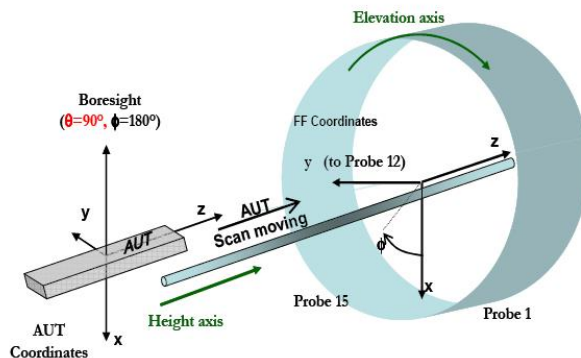
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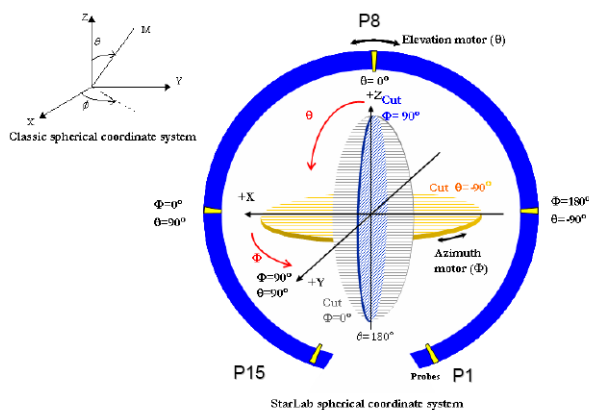


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### Coordinate system – Cylindrical geometry



### Coordinate system – Spherical geometry



## 2. ANTENNA TRP &TIS

TRP: total radiated power &TIS: total isotropic sensitivity

|      |     |      |       |     |      |        |
|------|-----|------|-------|-----|------|--------|
| 11B  | 1   | 2412 | 13.8  | 1   | 2412 | -81.34 |
|      | 7   | 2442 | 14.2  | 7   | 2442 | -81.96 |
|      | 13  | 2472 | 14.2  | 13  | 2472 | -82.63 |
| 11A  | 36  | 5180 | 10.58 | 36  | 5180 | -68.95 |
|      | 100 | 5500 | 10.3  | 100 | 5500 | -69.32 |
|      | 165 | 5825 | 9.71  | 165 | 5825 | -68.19 |
| 11AC | 36  | 5180 | 9.34  | 36  | 5180 | -69.6  |
|      | 100 | 5500 | 8.43  | 100 | 5500 | -68.51 |
|      | 165 | 5825 | 7.76  | 165 | 5825 | -66.71 |



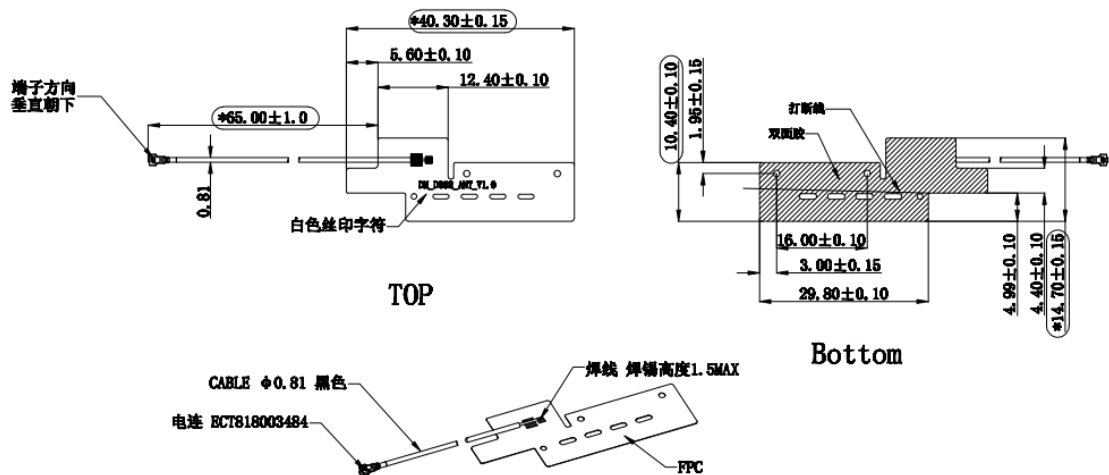
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## 2.1 Model: DM\_D052\_ANT

Supplier: ShenZhen Deman Electronics Technology Co.,  
Ltd.

ADD: 3rd Floor, Building C, Shunluo Industrial Park,  
Dafuyuan Industrial Zone, Guanlan Street, Longhua New  
District, Shenzhen.



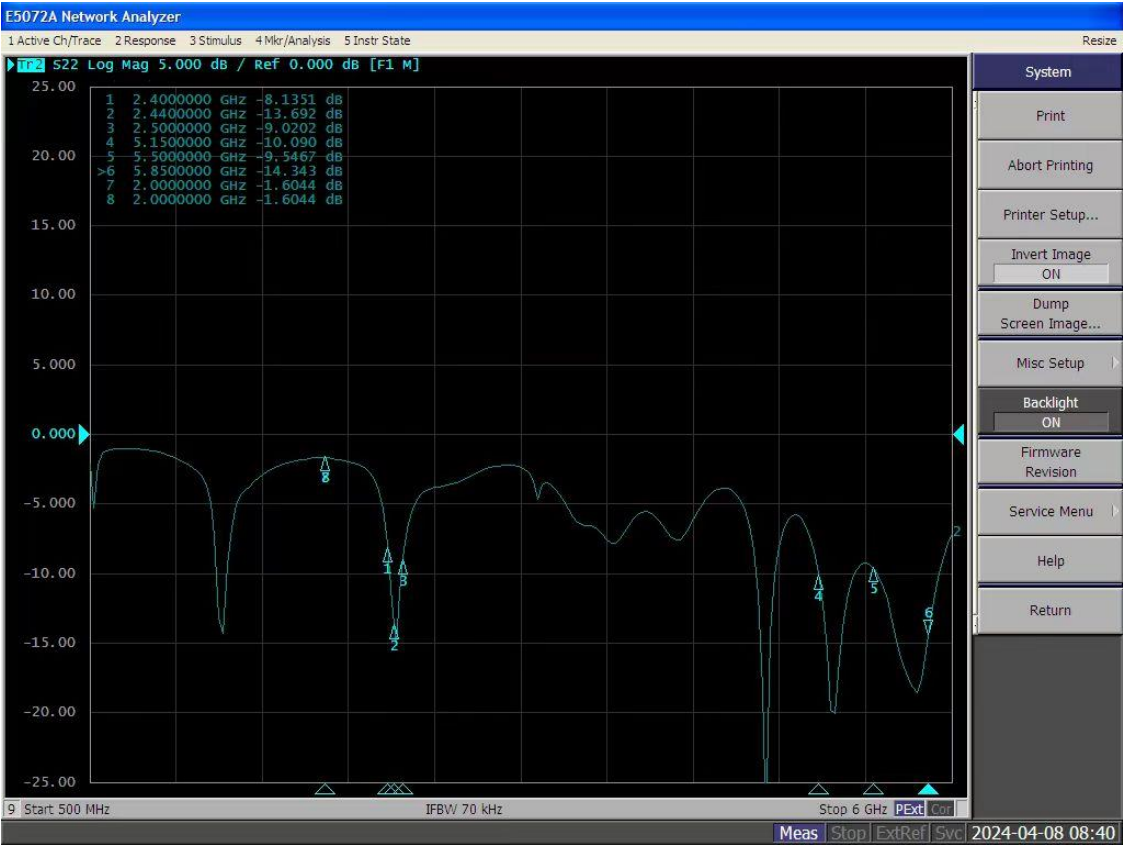
Maximum Gain: 4.62dBi

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Efficiency test results

| 频率   | 效率 db | 增益 dbi | 效率%   | 频率   | 效率 db | 增益 dbi | 效率%   |
|------|-------|--------|-------|------|-------|--------|-------|
| 2400 | -3.32 | 3.92   | 46.6  | 5400 | -4.89 | 1.4    | 32.41 |
| 2410 | -2.95 | 4.21   | 50.66 | 5420 | -4.98 | 1.21   | 31.8  |
| 2420 | -2.67 | 4.42   | 54.05 | 5440 | -4.8  | 1.42   | 33.13 |
| 2430 | -2.55 | 4.48   | 55.6  | 5460 | -4.97 | 1.34   | 31.82 |
| 2440 | -2.38 | 4.62   | 57.74 | 5480 | -4.91 | 1.57   | 32.29 |
| 2450 | -2.49 | 4.54   | 56.39 | 5500 | -4.79 | 1.82   | 33.18 |
| 2460 | -2.54 | 4.51   | 55.69 | 5520 | -4.94 | 1.74   | 32.05 |
| 2470 | -2.62 | 4.41   | 54.69 | 5540 | -4.82 | 1.91   | 32.96 |
| 2480 | -2.77 | 4.23   | 52.81 | 5560 | -4.76 | 1.95   | 33.42 |
| 2490 | -3.11 | 3.87   | 48.86 | 5580 | -4.82 | 1.82   | 32.96 |
| 2500 | -3.42 | 3.53   | 45.5  | 5600 | -4.53 | 2.02   | 35.23 |
| 5140 | -7.3  | -0.58  | 18.63 | 5620 | -4.44 | 1.96   | 35.95 |

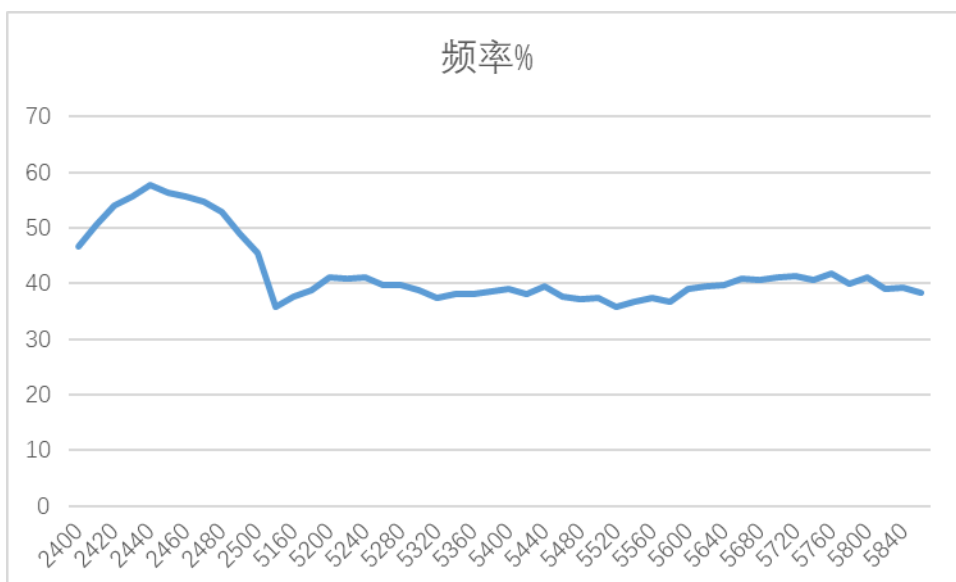
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|      |       |       |       |      |       |      |       |
|------|-------|-------|-------|------|-------|------|-------|
| 5160 | -6.8  | -0.23 | 20.89 | 5640 | -4.41 | 1.78 | 36.23 |
| 5180 | -6.46 | 0.03  | 22.62 | 5660 | -4.24 | 1.86 | 37.65 |
| 5200 | -6.06 | 0.35  | 24.75 | 5680 | -4.38 | 1.68 | 36.48 |
| 5220 | -5.84 | 0.62  | 26.05 | 5700 | -4.46 | 1.62 | 35.85 |
| 5240 | -5.49 | 1.1   | 28.22 | 5720 | -4.52 | 1.57 | 35.33 |
| 5260 | -5.39 | 1.35  | 28.9  | 5740 | -4.68 | 1.45 | 34.04 |
| 5280 | -5.32 | 1.55  | 29.41 | 5760 | -4.67 | 1.45 | 34.13 |
| 5300 | -5.36 | 1.52  | 29.13 | 5780 | -4.93 | 1.17 | 32.16 |
| 5320 | -5.38 | 1.44  | 28.97 | 5800 | -4.83 | 1.29 | 32.86 |
| 5340 | -5.21 | 1.45  | 30.11 | 5820 | -5.04 | 1.16 | 31.33 |
| 5360 | -5.12 | 1.44  | 30.74 | 5840 | -5.07 | 1.19 | 31.15 |
| 5380 | -4.99 | 1.43  | 31.73 | 5860 | -5.17 | 1.12 | 30.38 |



1D view:

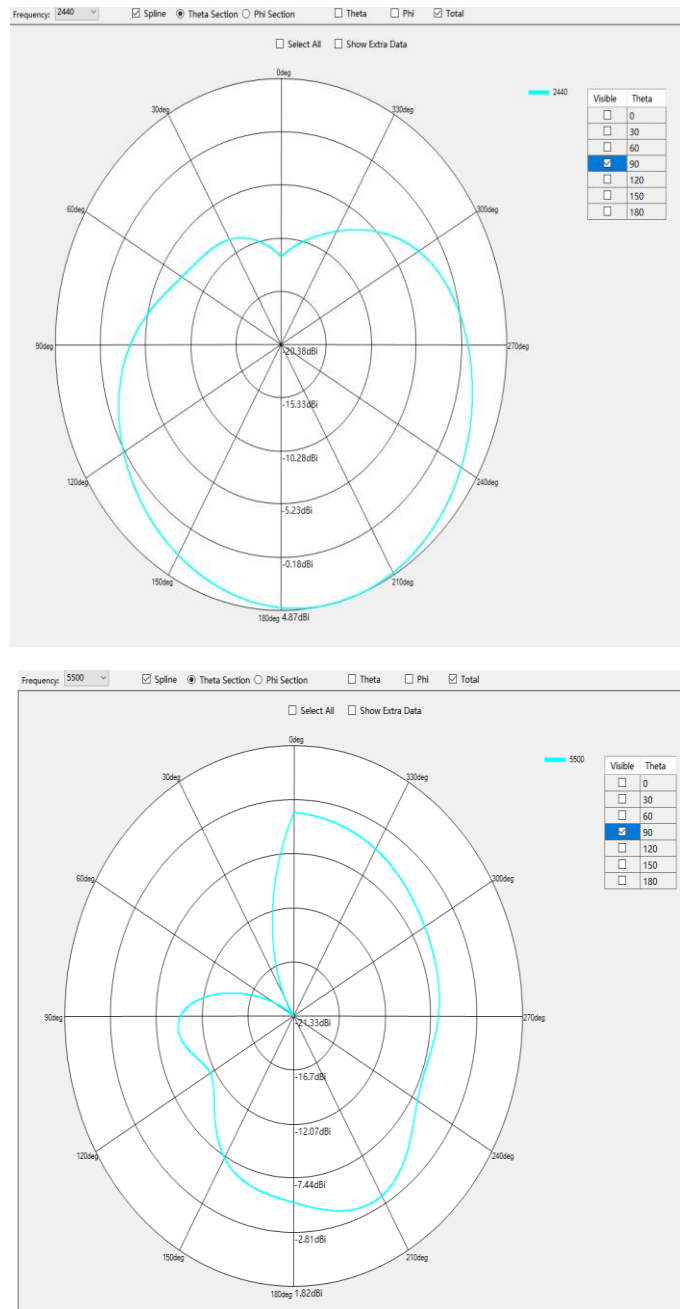
H 面

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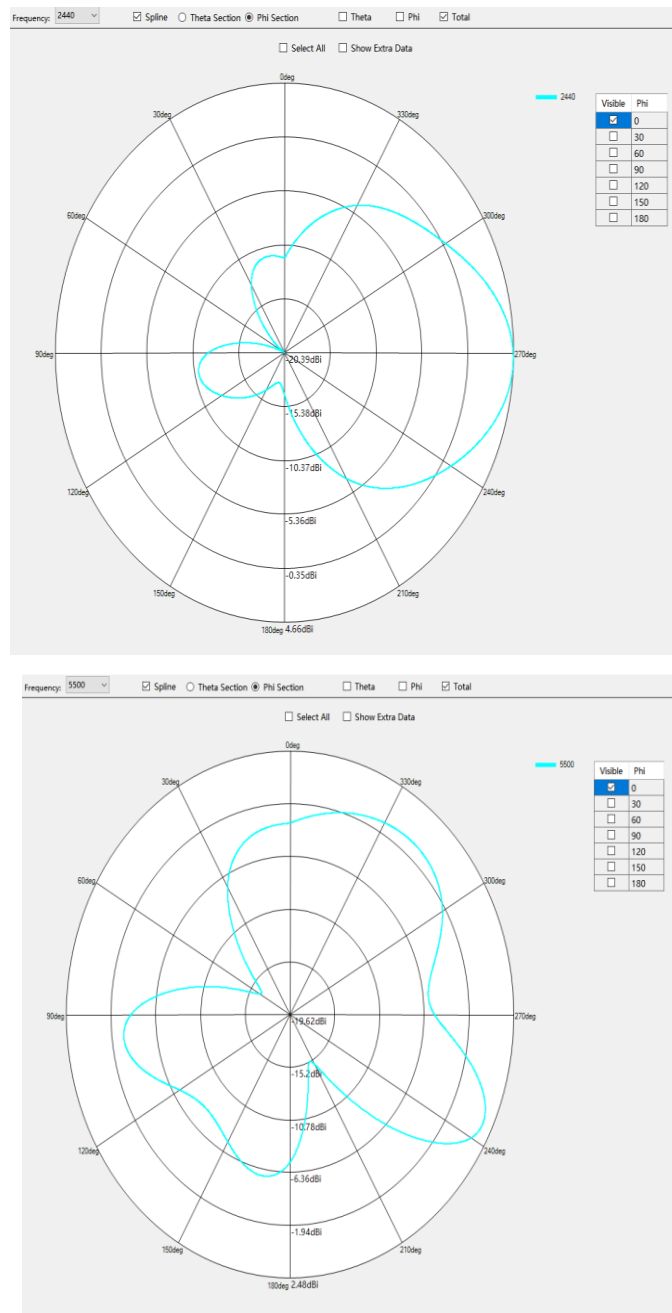
E1 面

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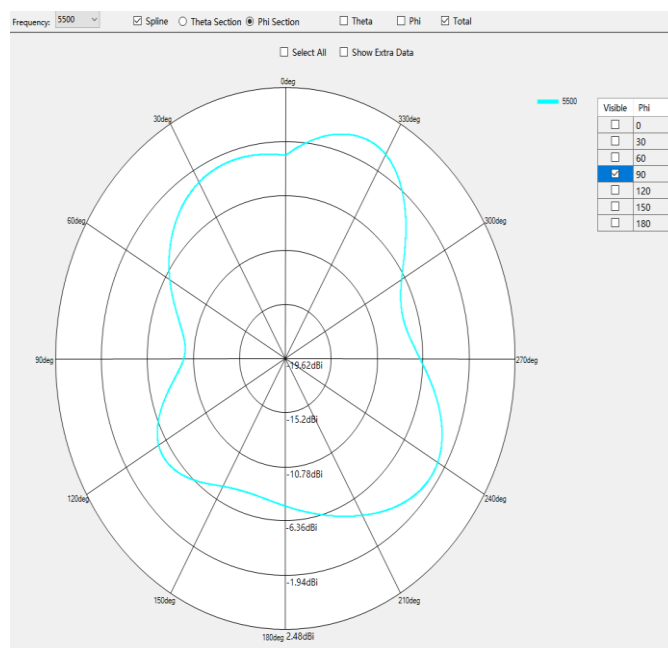
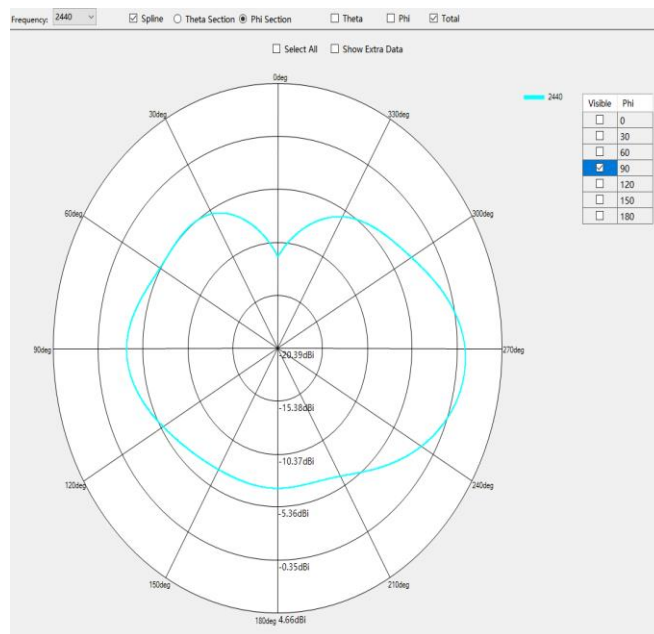
E2 面

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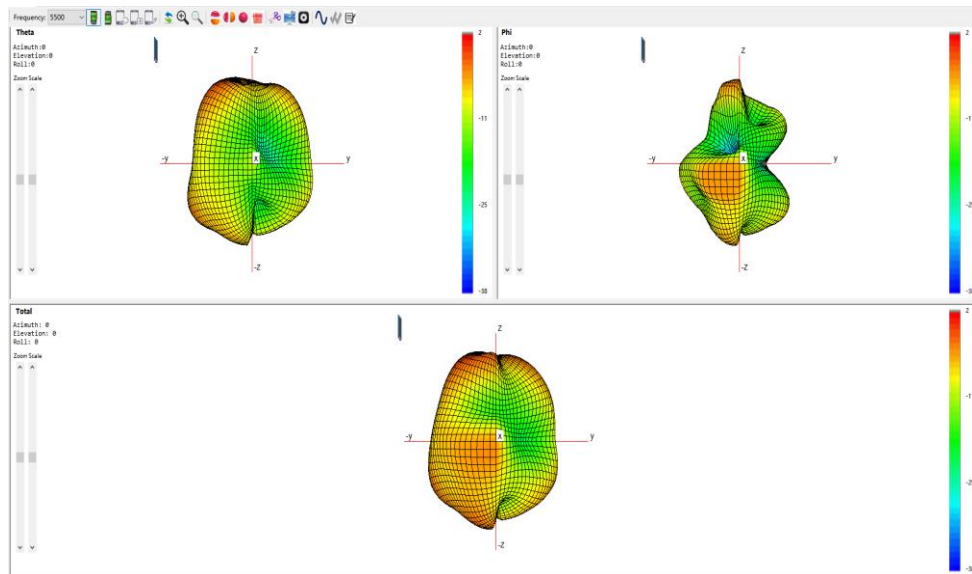
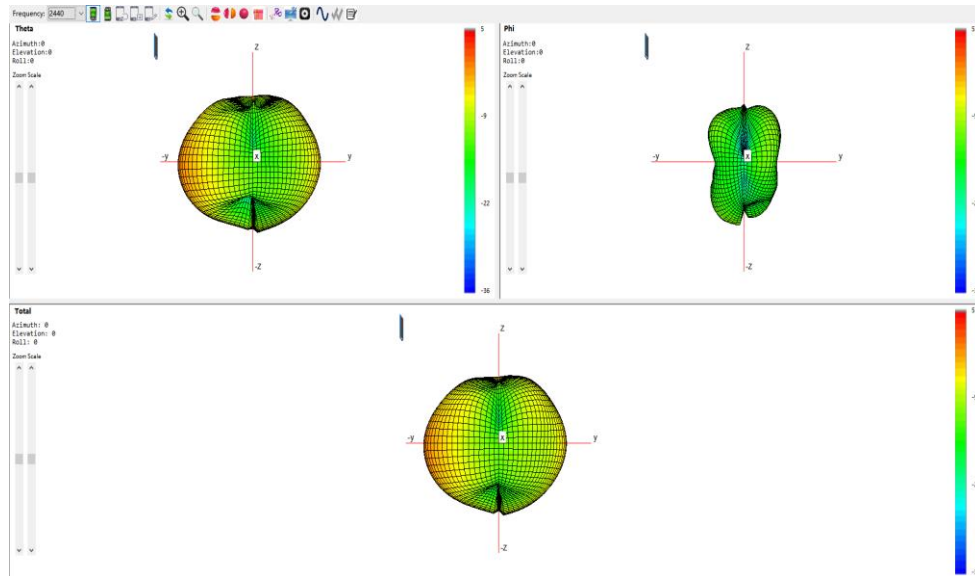
## 3D

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