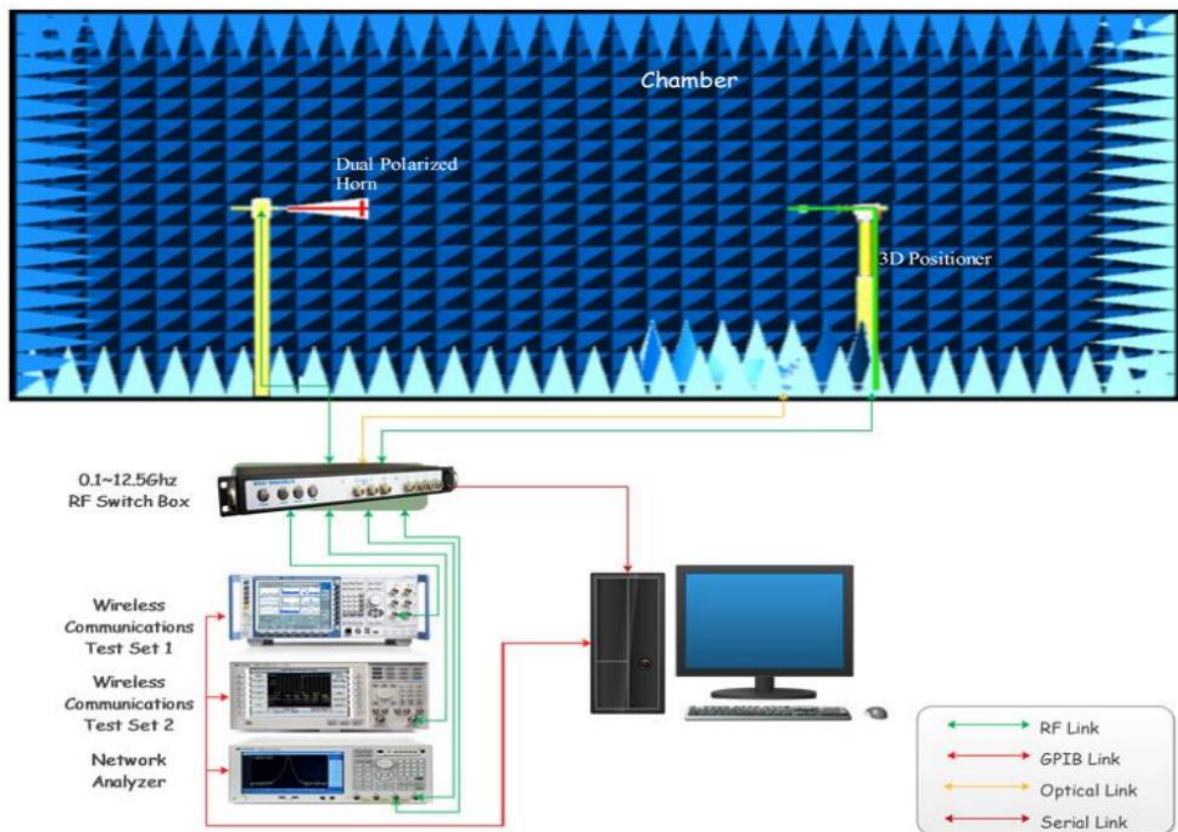


## E021C antenna report

|                 |                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| Test Address    | Shenzhen3Good Wireless Communications CO.,LTD<br>Room501,Jinfulai Building,No.49- 1,Dabao<br>Road,Baoan District,Shenzhen |
| Test Date       | October28, 2024                                                                                                           |
| Test Instrument | vector network analyzer -Agilent Technologies<br>E5071B                                                                   |

### Iption Measurement procedure





### Antenna information:

|               |                |
|---------------|----------------|
| Customer      | Boat of wealth |
| Antenna Model | FPC+LDS        |
| Antenna Type  | PIFA           |

### Matching circuits:

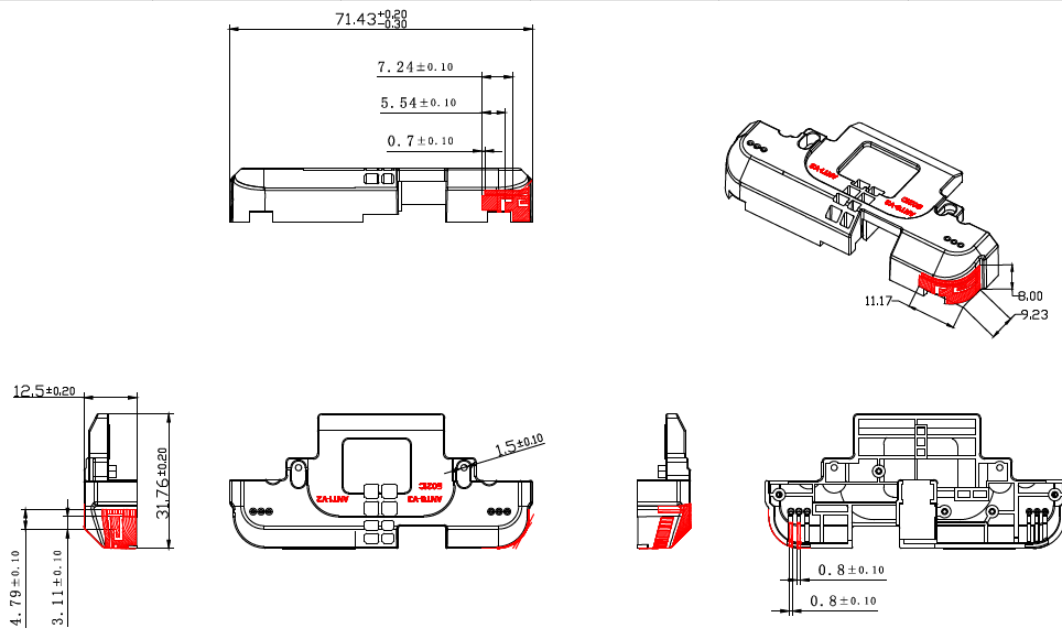
| ANT0    |       | ANT1        |       | ANT2    |       | ANT3    |       | ANT4    |       | ANT5    |       | ANT6    |       | ANT7    |       |
|---------|-------|-------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| Element | Value | Element     | Value | Element | Value | Element | Value | Element | Value | Element | Value | Element | Value | Element | Value |
| C222    | 0 Ω   | L2846       | 0.5PF | C2855   | 0 Ω   | C1      | 0 Ω   | C6      | 0 Ω   | C2870   | 0 Ω   | L9802   | 1.2NH | L9832   | 0 Ω   |
| L201    | 15NH  | C2569       | 3.9NH |         |       | C3      | 0 Ω   | C5      | 0 Ω   |         |       | L9800   | 0.5PF | C9828   | 0 Ω   |
| C201    | 0 Ω   | L2847       | NC    |         |       | C2      | 0 Ω   | C4      | 0 Ω   |         |       | C9800   | 2NH   |         |       |
| C202    | 0 Ω   | R1155       | NC    |         |       |         |       |         |       |         |       | L9845   |       |         |       |
| C560    | 0 Ω   | RF1 (C2838) | 0 Ω   |         |       |         |       |         |       |         |       |         |       |         |       |
| C546    | NC    | RF2 (C2888) | 3.9NH |         |       |         |       |         |       |         |       |         |       |         |       |
| C547    | 0 Ω   | RF3 (C2840) | 15NH  |         |       |         |       |         |       |         |       |         |       |         |       |
| C548    | 5.6NH | RF4 (C2887) | NC    |         |       |         |       |         |       |         |       |         |       |         |       |
| C549    | 22NH  |             |       |         |       |         |       |         |       |         |       |         |       |         |       |
| C550    | NC    |             |       |         |       |         |       |         |       |         |       |         |       |         |       |

### Passive performance figure:

|                |         |           |           |
|----------------|---------|-----------|-----------|
| Frequency(MHz) | 699~960 | 1710~2690 | 3300~5000 |
| VSWR           | <3.5    | <3.5      | <3.5      |

Antenna position pic

Unit :mm



### 3-D Patten Plots

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) |
|---------------|-------------|--------------|---------------|---------------|
| 2400          | 29.06       | -5.37        | 0.15          | -2            |
| 2410          | 29.81       | -5.26        | 0.32          | -1.83         |
| 2420          | 30.84       | -5.11        | 0.55          | -1.6          |
| 2430          | 31.72       | -4.99        | 0.8           | -1.35         |
| 2440          | 32.42       | -4.89        | 0.98          | -1.17         |
| 2450          | 33.54       | -4.74        | 1.13          | -1.02         |
| 2460          | 33.59       | -4.74        | 1.12          | -1.03         |
| 2470          | 33.02       | -4.81        | 1.09          | -1.06         |
| 2480          | 33.57       | -4.74        | 1.23          | -0.92         |
| 2490          | 34.98       | -4.56        | 1.42          | -0.73         |
| 2500          | 34.99       | -4.56        | 1.35          | -0.8          |

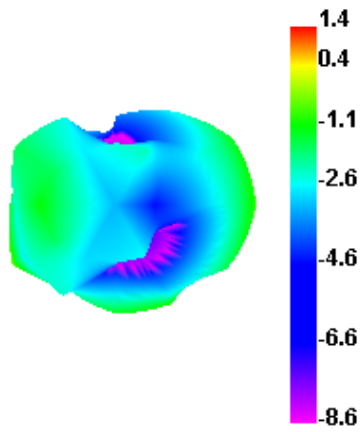


| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) |
|---------------|-------------|--------------|---------------|---------------|
| 5150          | 12.69       | -8.97        | -4            | -6.15         |
| 5160          | 12.87       | -8.9         | -4.08         | -6.23         |
| 5170          | 12.42       | -9.06        | -4.32         | -6.47         |
| 5180          | 12.24       | -9.12        | -4.21         | -6.36         |
| 5190          | 12.18       | -9.14        | -4.09         | -6.24         |
| 5200          | 12.52       | -9.02        | -3.79         | -5.94         |
| 5210          | 13.43       | -8.72        | -3.51         | -5.66         |
| 5220          | 13.98       | -8.55        | -3.31         | -5.46         |
| 5230          | 14.31       | -8.44        | -3.01         | -5.16         |
| 5240          | 13.51       | -8.69        | -3.27         | -5.42         |
| 5250          | 13.1        | -8.83        | -3.3          | -5.45         |
| 5260          | 13.53       | -8.69        | -3.37         | -5.52         |
| 5270          | 13.27       | -8.77        | -3.38         | -5.53         |
| 5280          | 13.24       | -8.78        | -3.49         | -5.64         |
| 5290          | 13.39       | -8.73        | -3.6          | -5.75         |
| 5300          | 12.57       | -9.01        | -3.76         | -5.91         |
| 5310          | 12.22       | -9.13        | -3.62         | -5.77         |
| 5320          | 13.18       | -8.8         | -3.27         | -5.42         |
| 5330          | 12.98       | -8.87        | -3.22         | -5.37         |
| 5340          | 13.46       | -8.71        | -3.08         | -5.23         |
| 5350          | 13.92       | -8.56        | -2.94         | -5.09         |
| 5360          | 13.15       | -8.81        | -3.04         | -5.19         |
| 5370          | 13.31       | -8.76        | -2.79         | -4.94         |
| 5380          | 14.01       | -8.54        | -2.49         | -4.64         |
| 5390          | 13.17       | -8.8         | -2.67         | -4.82         |
| 5400          | 15.98       | -7.96        | -1.9          | -4.05         |
| 5410          | 15.95       | -7.97        | -1.65         | -3.8          |
| 5420          | 16.7        | -7.77        | -1.62         | -3.77         |
| 5430          | 17.01       | -7.69        | -1.45         | -3.6          |
| 5440          | 17.59       | -7.55        | -1.37         | -3.52         |
| 5450          | 17.62       | -7.54        | -1.37         | -3.52         |
| 5460          | 18.63       | -7.3         | -1.07         | -3.22         |
| 5470          | 18.19       | -7.4         | -1.15         | -3.3          |
| 5480          | 17.84       | -7.49        | -1.14         | -3.29         |
| 5490          | 18.77       | -7.26        | -0.8          | -2.95         |
| 5500          | 18.84       | -7.25        | -0.90         | -3.04         |
| 5510          | 19.7        | -7.05        | -0.58         | -2.73         |
| 5520          | 20.36       | -6.91        | -0.54         | -2.69         |
| 5530          | 21.78       | -6.62        | -0.11         | -2.26         |
| 5540          | 22.47       | -6.48        | 0.04          | -2.11         |
| 5550          | 22.5        | -6.48        | -0.17         | -2.32         |
| 5560          | 22.66       | -6.45        | 0.07          | -2.08         |
| 5570          | 23.23       | -6.34        | -0.19         | -2.34         |
| 5580          | 23.81       | -6.23        | 0.1           | -2.05         |
| 5590          | 23.69       | -6.25        | 0.01          | -2.14         |
| 5600          | 23.87       | -6.22        | -0.14         | -2.29         |
| 5610          | 23.36       | -6.32        | -0.34         | -2.49         |
| 5620          | 23.29       | -6.33        | -0.4          | -2.55         |
| 5630          | 23.5        | -6.29        | -0.62         | -2.77         |
| 5640          | 23.52       | -6.29        | -0.61         | -2.76         |

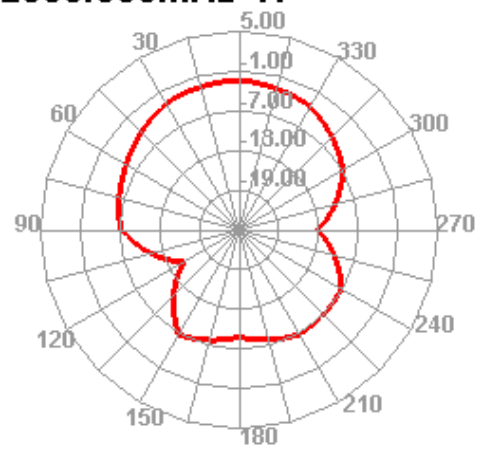


|      |       |       |       |       |
|------|-------|-------|-------|-------|
| 5650 | 23.51 | -6.29 | -0.64 | -2.79 |
| 5660 | 24.2  | -6.16 | -0.63 | -2.78 |
| 5670 | 23.6  | -6.27 | -0.98 | -3.13 |
| 5680 | 24.02 | -6.19 | -0.93 | -3.08 |
| 5690 | 22.95 | -6.39 | -1.28 | -3.43 |
| 5700 | 23.03 | -6.38 | -1.36 | -3.51 |
| 5710 | 22.69 | -6.44 | -1.5  | -3.65 |
| 5720 | 22.52 | -6.47 | -1.56 | -3.71 |
| 5730 | 23.83 | -6.23 | -1.39 | -3.54 |
| 5740 | 24.44 | -6.12 | -1.28 | -3.43 |
| 5750 | 25.79 | -5.88 | -1.23 | -3.38 |
| 5760 | 25.29 | -5.97 | -0.98 | -3.13 |
| 5770 | 25.84 | -5.88 | -1.13 | -3.28 |
| 5780 | 25.63 | -5.91 | -1.02 | -3.17 |
| 5790 | 25.73 | -5.9  | -1.07 | -3.22 |
| 5800 | 25.45 | -5.94 | -0.93 | -3.08 |
| 5810 | 25.5  | -5.93 | -0.91 | -3.06 |
| 5820 | 26.5  | -5.77 | -0.79 | -2.94 |
| 5830 | 26.92 | -5.7  | -0.82 | -2.97 |
| 5840 | 27.06 | -5.68 | -0.84 | -2.99 |
| 5850 | 28.04 | -5.52 | -0.42 | -2.57 |

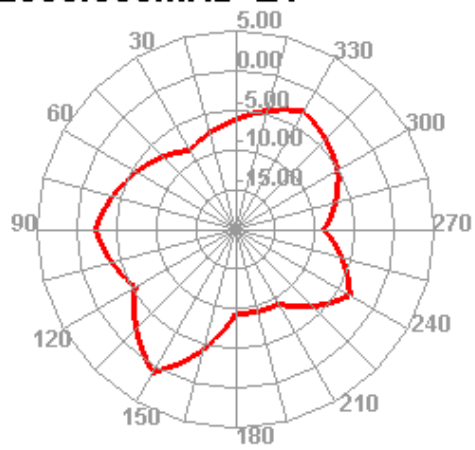
2500.000MHz



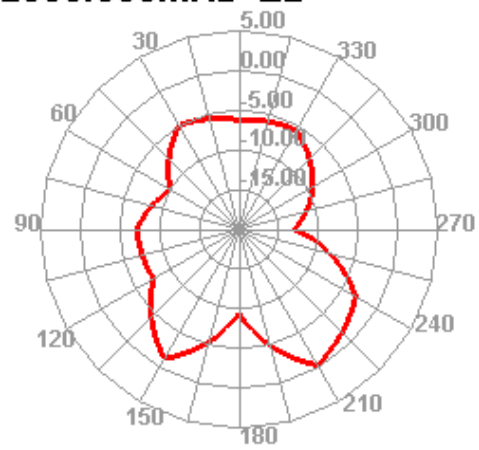
2500.000MHz H



2500.000MHz E1

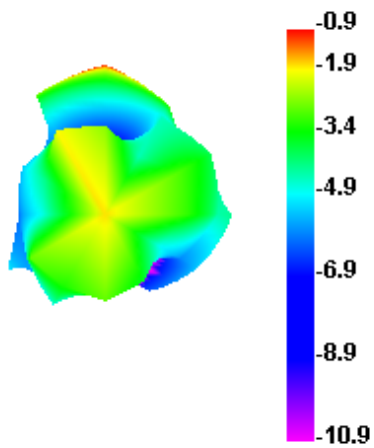


2500.000MHz E2

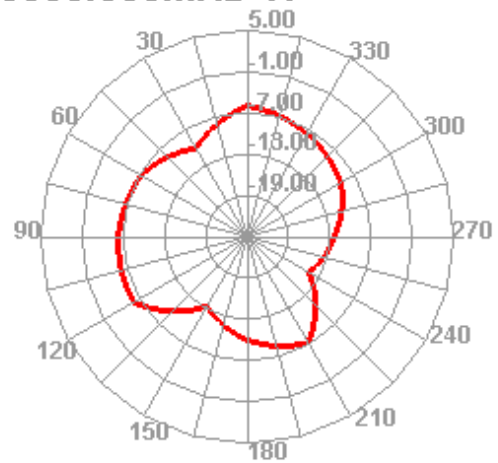




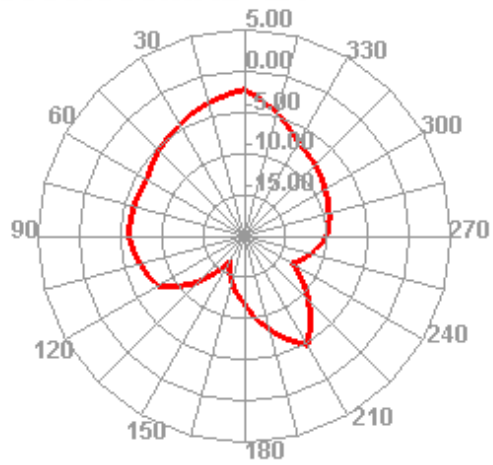
5500.000MHz



5500.000MHz H



5500.000MHz E1



5500.000MHz E2

