



SHENZHEN XINGYUANCHUANG TECHNOLOGY CO., LTD

# Antenna Test Report

*TC:* Hua Zhihui

*MN:* MW1095

*RF:* Liu Leique

*MD:* Huang Qingqing

*MP:* 13005478517

*Date:* 2026. 7. 11

*REV :V1. 0*



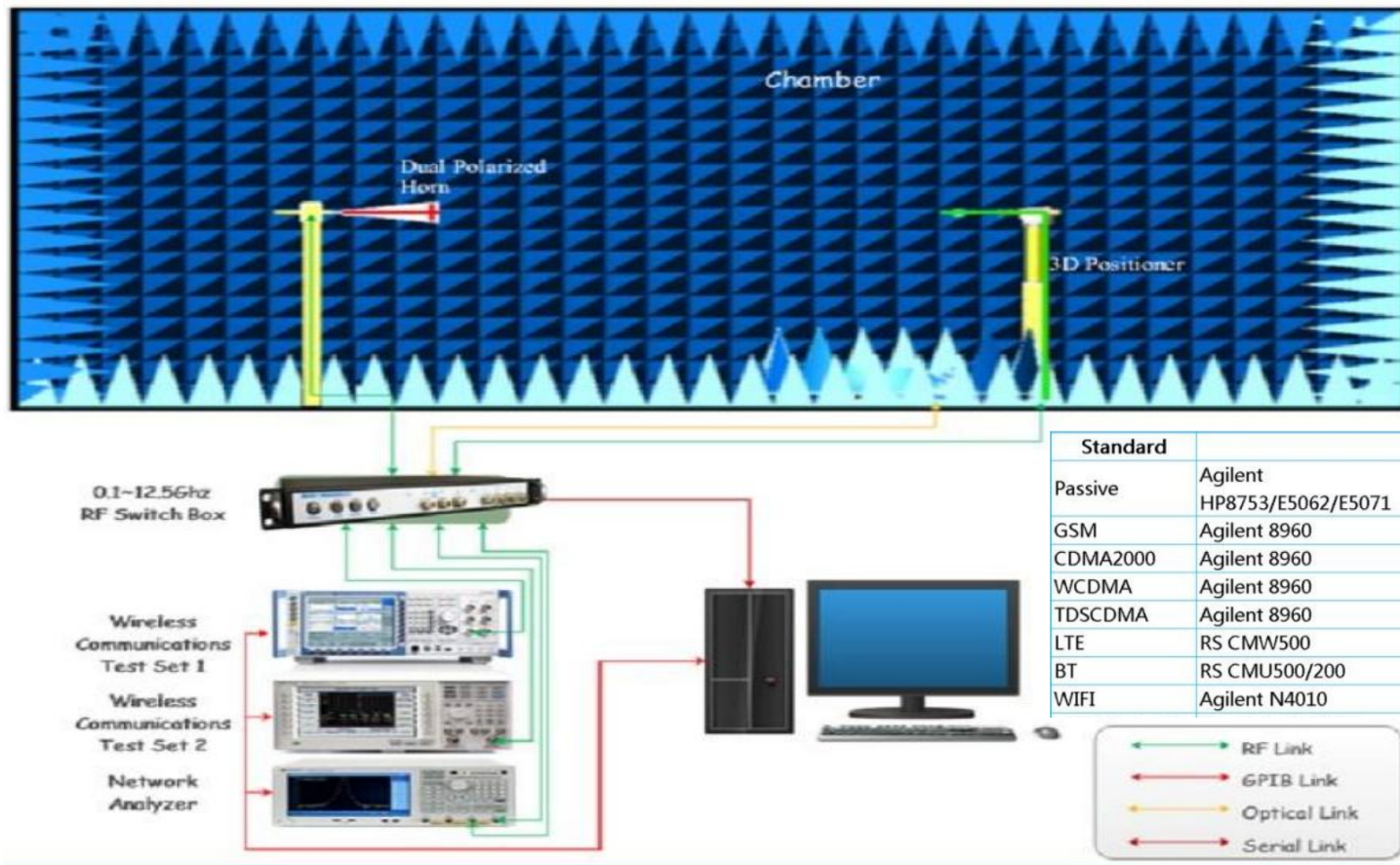
ANTENNA

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

## Test information

|          | Antenna band |            | Antenna state | Antenna form | Matchc hanges | Note |
|----------|--------------|------------|---------------|--------------|---------------|------|
|          |              |            |               |              |               |      |
| Main ANT | 2G           |            |               |              |               |      |
|          | 3G           |            | FPC           | PIFA         | NO            |      |
|          | 4G           |            |               |              |               |      |
| AUX ANT  | BT/WIFI      | BT/2.4G/5G | FPC           | PIFA         | NO            |      |
|          | GPS          | 1.575G     | FPC           | PIFA         | NO            |      |
|          | DIV          |            | FPC           | PIFA         | NO            |      |

## OTA Chamber Overview

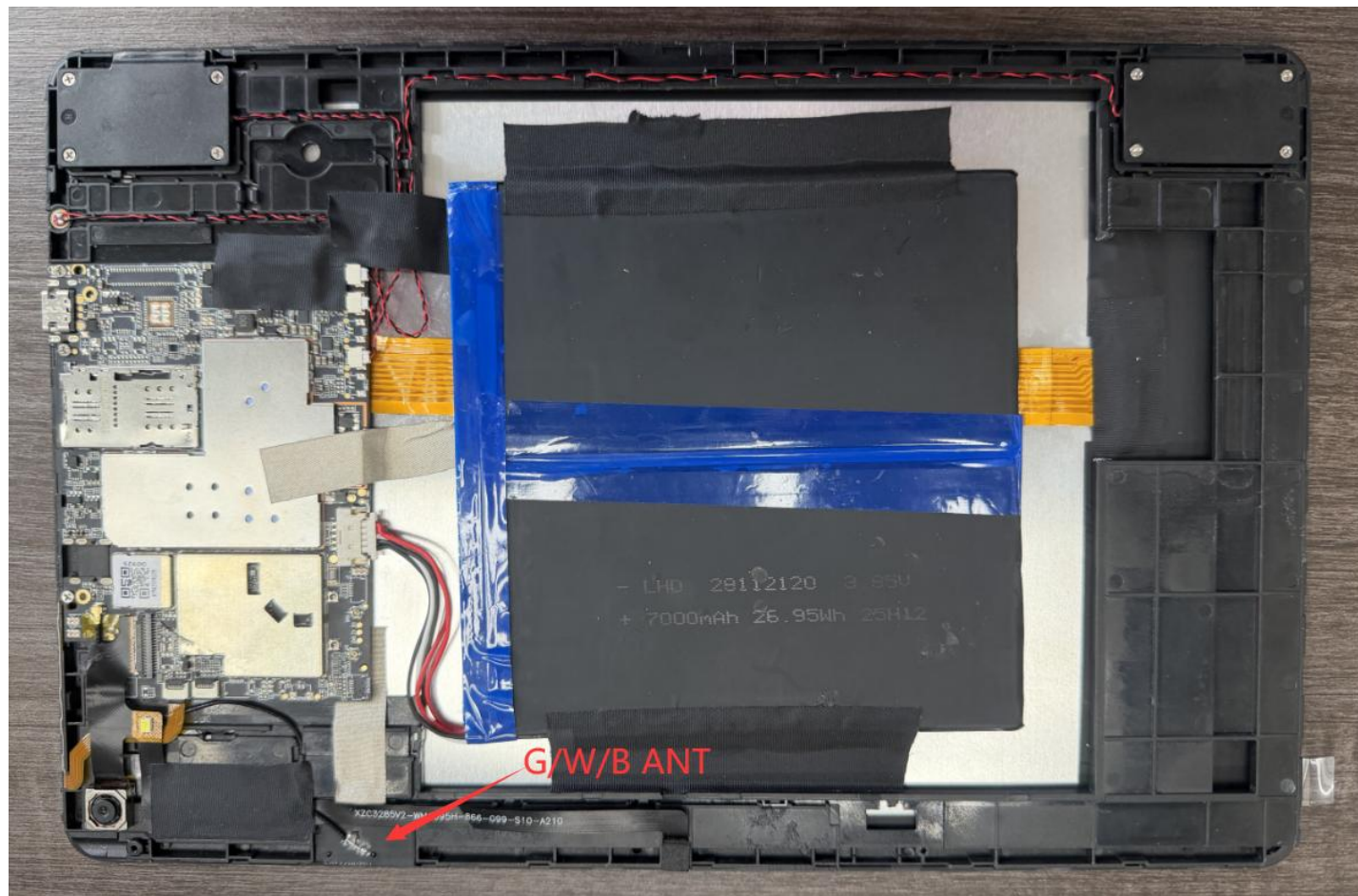


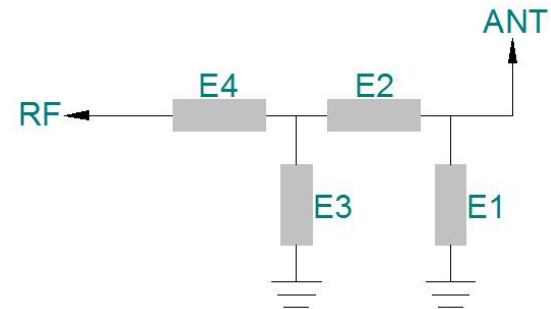


ANTENNA

SHENZHEN Xingyuanchuang TECHNOLOGY CO.,LTD

Antenna position





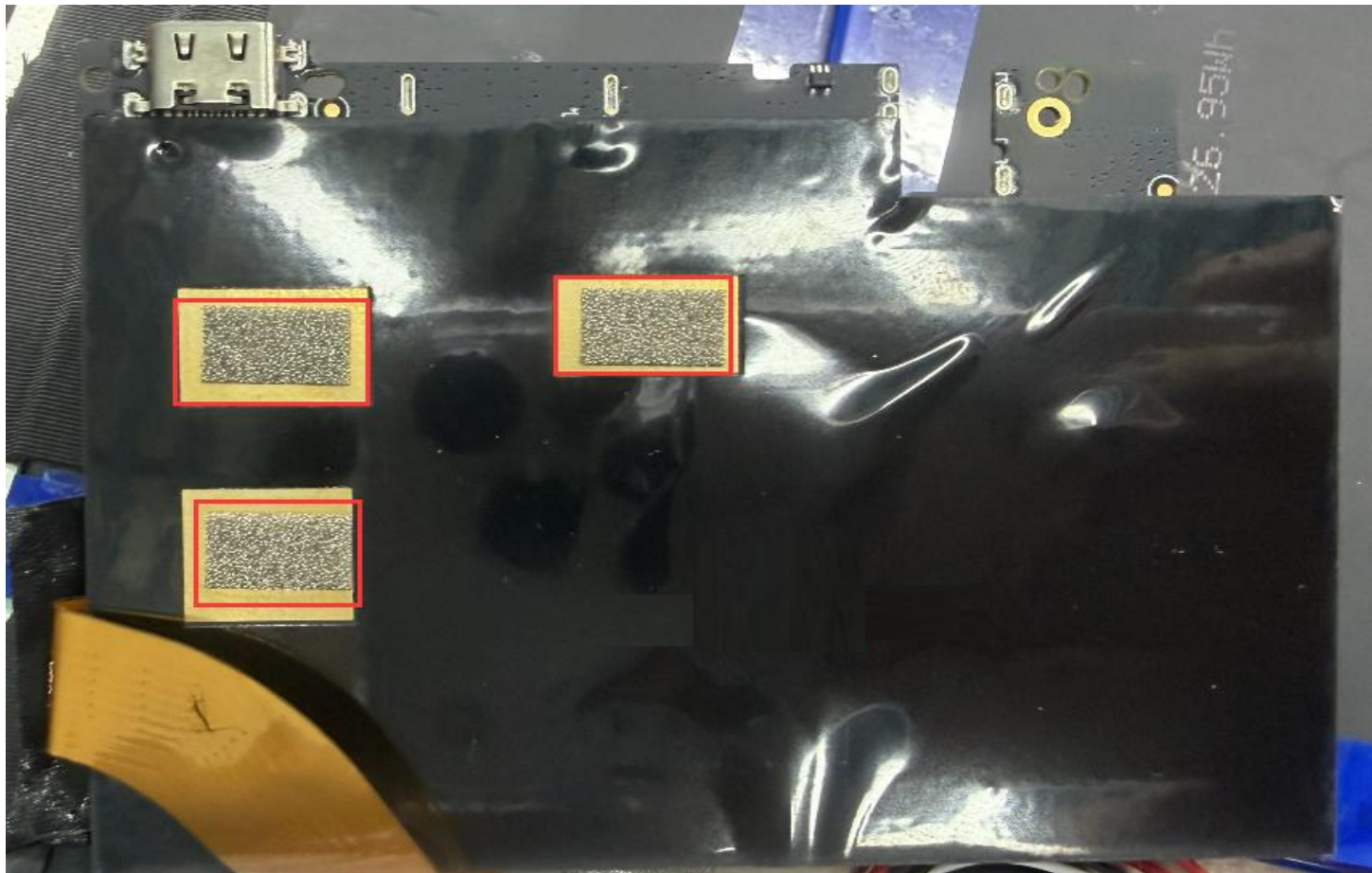
|          | (PF) | (NH) |
|----------|------|------|
| E1(0402) |      |      |
| E2(0402) |      |      |
| E3(0402) |      |      |
| E4(0402) |      |      |



ANTENNA

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

Environmental treatment

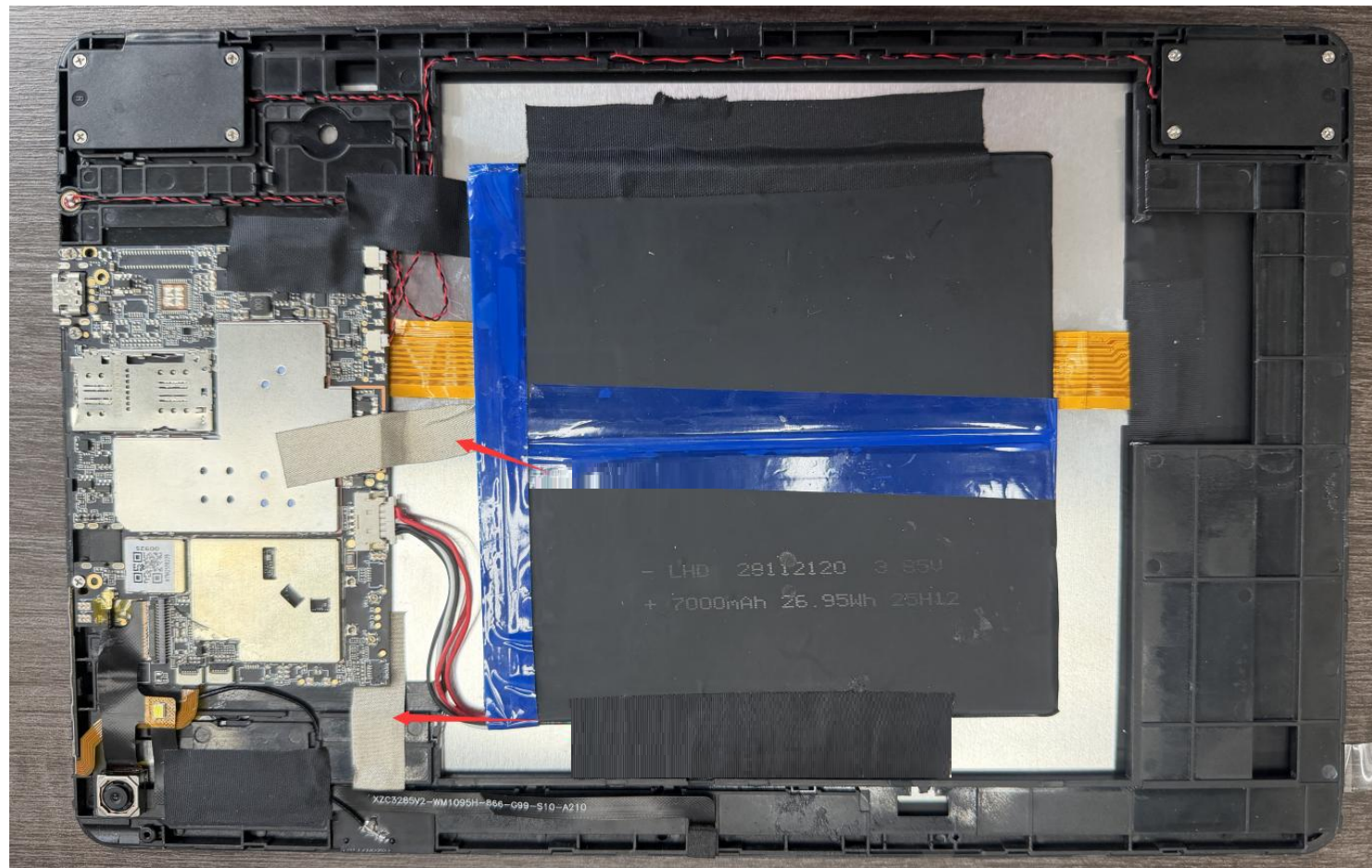




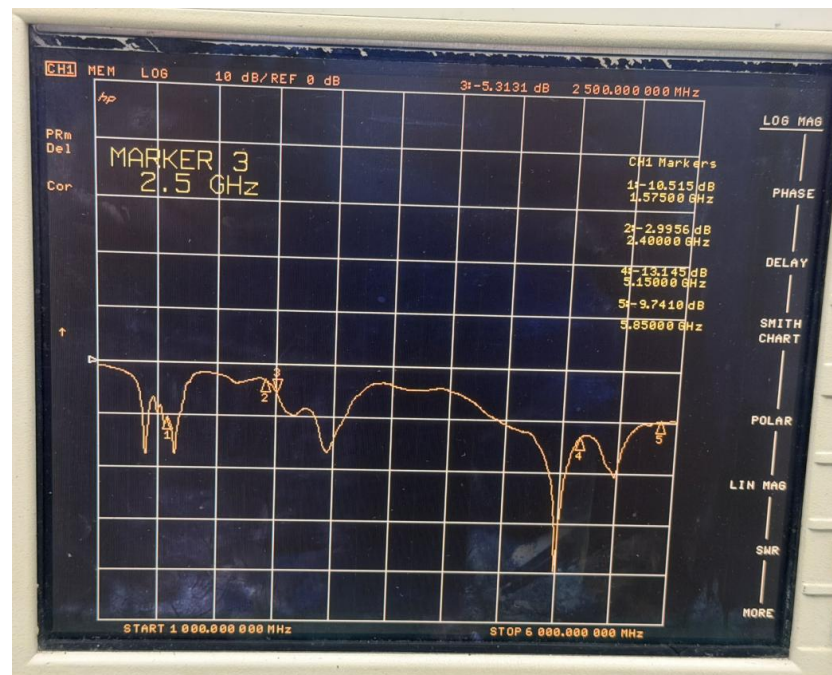
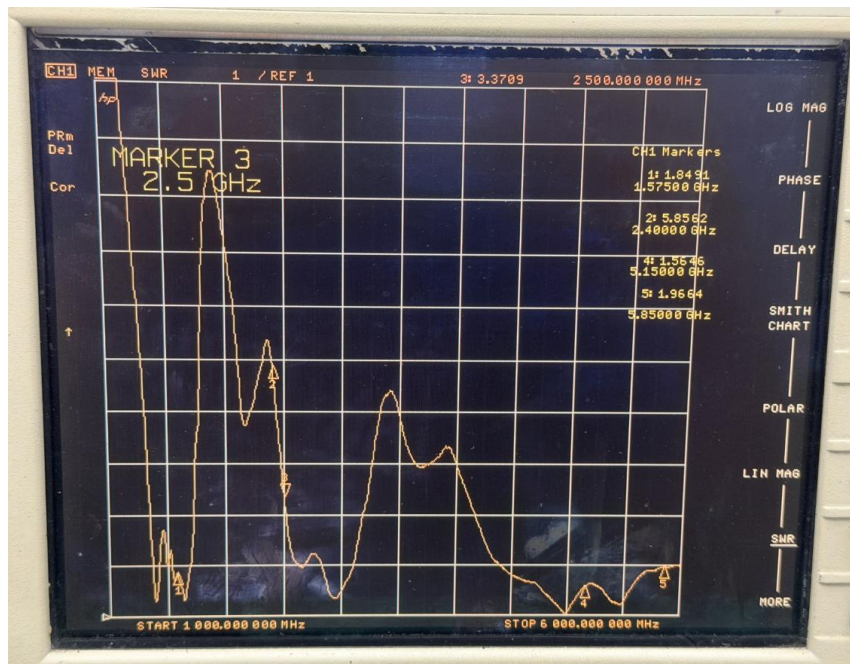
ANTENNA

SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

Environmental treatment



## ANT1 S11-VSWR&amp;Return Loss



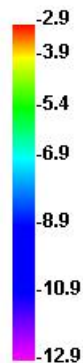
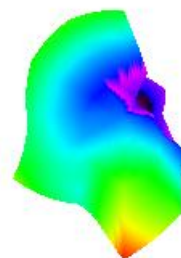
| Frequency (MHZ)  | 1575   | 2400  | 2500 | 5150   | 5850  |
|------------------|--------|-------|------|--------|-------|
| VSWR             | 1.84   | 5.85  | 3.37 | 1.56   | 1.96  |
| Return Loss (DB) | -10.51 | -2.99 | 5.31 | -13.14 | -9.74 |

## ANT1 GAIN&amp;Efficiency-GPS

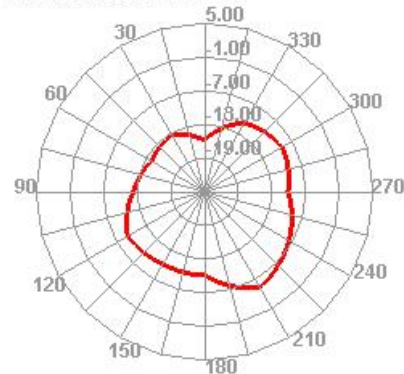
| Passive Test For GPS |             |              |               |               |            |            |             |             |
|----------------------|-------------|--------------|---------------|---------------|------------|------------|-------------|-------------|
| Freq<br>(MHz)        | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) | Max<br>(dB) | Min<br>(dB) |
| 1560                 | 13.2        | -8.79        | -2.41         | -4.56         | 7.341      | 5.863      | -2.41       | -21.4       |
| 1565                 | 13.59       | -8.67        | -2.33         | -4.48         | 7.566      | 6.02       | -2.33       | -19.19      |
| 1570                 | 12.67       | -8.97        | -2.74         | -4.89         | 7.055      | 5.613      | -2.74       | -17.45      |
| 1575                 | 12.46       | -9.04        | -2.87         | -5.02         | 6.923      | 5.541      | -2.87       | -17.37      |
| 1580                 | 12.98       | -8.87        | -2.8          | -4.95         | 7.156      | 5.821      | -2.8        | -17.27      |

ANT1 Direction of figure(GPS)

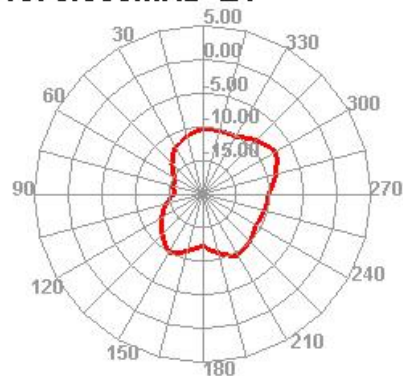
1575.000MHz



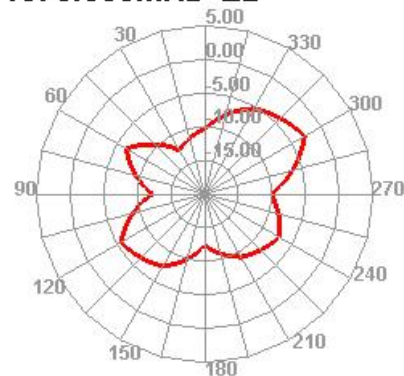
1575.000MHz H



1575.000MHz E1



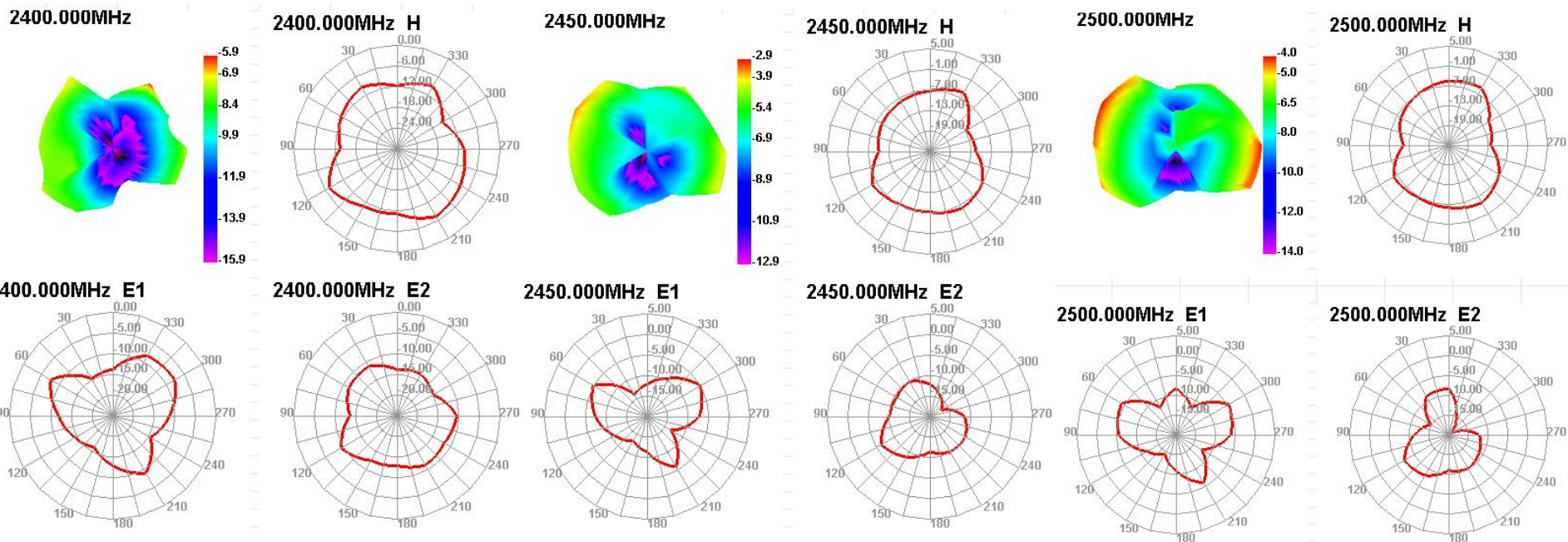
1575.000MHz E2



## ANT1 GAIN&amp;Efficiency-WIFI2.4G/BT

| Passive Test For WIFI2.4 |             |              |               |               |            |            |             |             |
|--------------------------|-------------|--------------|---------------|---------------|------------|------------|-------------|-------------|
| Freq<br>(MHz)            | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) | Max<br>(dB) | Min<br>(dB) |
| 2400                     | 9.65        | -10.15       | -5.9          | -8.05         | 4.843      | 4.811      | -5.9        | -17.43      |
| 2410                     | 10.98       | -9.59        | -4.9          | -7.05         | 5.39       | 5.59       | -4.9        | -17.76      |
| 2420                     | 10.67       | -9.72        | -4.93         | -7.08         | 5.186      | 5.488      | -4.93       | -18.61      |
| 2430                     | 11.23       | -9.5         | -4.53         | -6.68         | 5.425      | 5.805      | -4.53       | -19.18      |
| 2440                     | 14.42       | -8.41        | -3.35         | -5.5          | 6.866      | 7.552      | -3.35       | -20.44      |
| 2450                     | 16.17       | -7.91        | -2.87         | -5.02         | 7.666      | 8.505      | -2.87       | -22.67      |
| 2460                     | 13.78       | -8.61        | -3.84         | -5.99         | 6.502      | 7.282      | -3.84       | -22.06      |
| 2470                     | 16.52       | -7.82        | -3.53         | -5.68         | 7.826      | 8.69       | -3.53       | -18.42      |
| 2480                     | 18.25       | -7.39        | -3.46         | -5.61         | 8.802      | 9.443      | -3.46       | -18.5       |
| 2490                     | 17.25       | -7.63        | -3.77         | -5.92         | 8.402      | 8.85       | -3.77       | -19.38      |
| 2500                     | 16.41       | -7.85        | -3.98         | -6.13         | 8.081      | 8.332      | -3.98       | -20.28      |

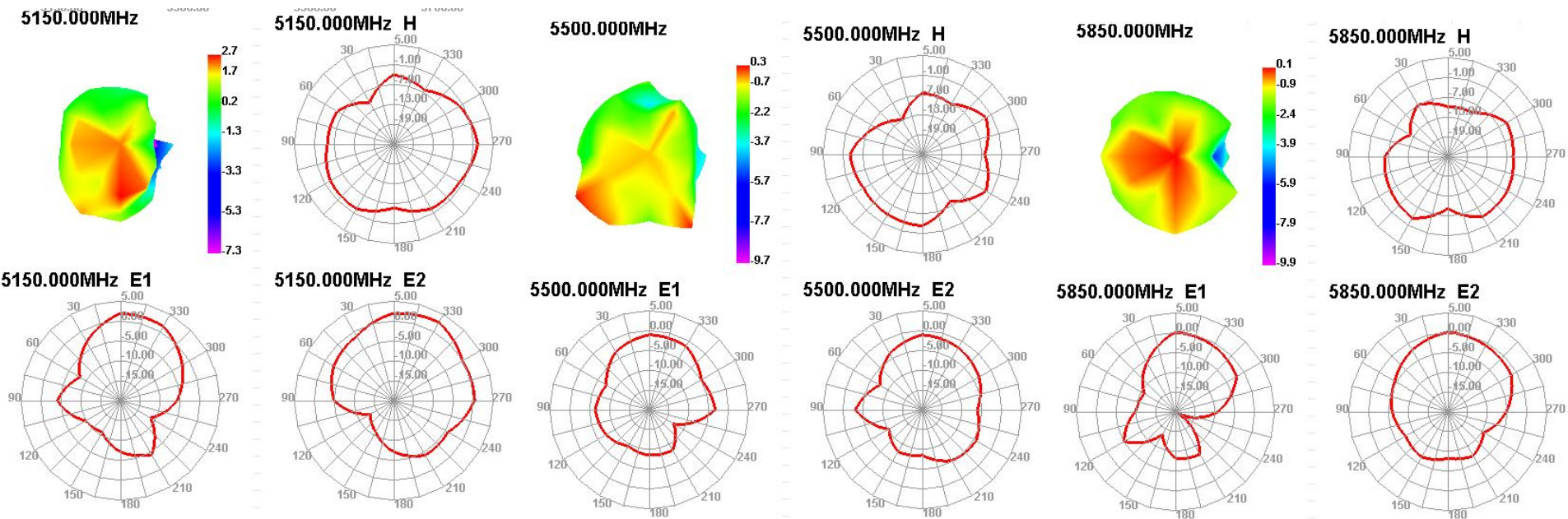
## ANT1 Direction of figure(2.4/BT)



## ANT1 GAIN&amp;Efficiency-WIFI 5G

| Passive Test For 5G-50M |             |              |               |               |            |            |             |             |
|-------------------------|-------------|--------------|---------------|---------------|------------|------------|-------------|-------------|
| Freq<br>(MHz)           | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) | Max<br>(dB) | Min<br>(dB) |
| 5150                    | 49.53       | -3.05        | 2.66          | 0.51          | 34.931     | 14.595     | 2.66        | -13.74      |
| 5200                    | 50.19       | -2.99        | 2.35          | 0.2           | 35.375     | 14.81      | 2.35        | -12.49      |
| 5250                    | 54.09       | -2.67        | 2.8           | 0.65          | 38.001     | 16.085     | 2.8         | -13.31      |
| 5300                    | 51.56       | -2.88        | 2.5           | 0.35          | 36.367     | 15.189     | 2.5         | -13.92      |
| 5350                    | 48.99       | -3.1         | 2.57          | 0.42          | 34.745     | 14.244     | 2.57        | -13.97      |
| 5400                    | 45.5        | -3.42        | 1.84          | -0.31         | 31.873     | 13.623     | 1.84        | -14         |
| 5450                    | 37.84       | -4.22        | 0.36          | -1.79         | 26.106     | 11.736     | 0.36        | -26.23      |
| 5500                    | 35.05       | -4.55        | 0.3           | -1.85         | 23.064     | 11.987     | 0.3         | -18.11      |
| 5550                    | 39.97       | -3.98        | 1.09          | -1.06         | 26.572     | 13.393     | 1.09        | -13.11      |
| 5600                    | 40.22       | -3.96        | 0.8           | -1.35         | 26.715     | 13.5       | 0.8         | -12.72      |
| 5650                    | 42.42       | -3.72        | 1.19          | -0.96         | 28.309     | 14.114     | 1.19        | -14.26      |
| 5700                    | 46.01       | -3.37        | 1.34          | -0.81         | 31.115     | 14.893     | 1.34        | -15.91      |
| 5750                    | 40.64       | -3.91        | 0.93          | -1.22         | 27.503     | 13.136     | 0.93        | -16.9       |
| 5800                    | 38.9        | -4.1         | 0.87          | -1.28         | 26.736     | 12.16      | 0.87        | -21.1       |
| 5850                    | 32.2        | -4.92        | 0.07          | -2.08         | 21.384     | 10.819     | 0.07        | -19.37      |

## ANT1 Direction of figure(5G)



END

thank you!!