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## Antenna Performance Description

**Applicant:** Xiaomi Communications Co., Ltd

**Antenna Model:** P15A Antenna

**Test date:** 2025/04/08



## 1. Antenna information

| Antenna     | Pattern | Antenna Type | Manufacturer                               | Address                                                                             | Test party of Antenna gain                 |
|-------------|---------|--------------|--------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------|
| MAIN        | FPC     | PIFA Antenna | Huizhou Speed Wireless Technology Co., Ltd | Building 2, No. 99, weixin Road, weiting Town, Suzhou City, Jiangsu Province, China | Huizhou Speed Wireless Technology Co., Ltd |
| DIV         | FPC     | PIFA Antenna | Huizhou Speed Wireless Technology Co., Ltd | Building 2, No. 99, weixin Road, weiting Town, Suzhou City, Jiangsu Province, China | Huizhou Speed Wireless Technology Co., Ltd |
| GPS/WIFI/BT | FPC     | PIFA Antenna | Huizhou Speed Wireless Technology Co., Ltd | Building 2, No. 99, weixin Road, weiting Town, Suzhou City, Jiangsu Province, China | Huizhou Speed Wireless Technology Co., Ltd |

### NFC Antenna information

| Model name       |  | Antenna Type | Manufacturer                                        | Address                                                                                                              | Modulation method |
|------------------|--|--------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------|
| P15A NFC Antenna |  | FPC+Ferrites | Rui Xiang Xun Tong Communication Technology Co.Ltd. | Jin Tudi Intelligent Manufacturing Park, Shengchuang Road, Yushan Town, Kunshan City, Suzhou City, Jiangsu Province. | ASK               |

## 2. Test data

| Band for Antenna 1 | Main ant   |                |
|--------------------|------------|----------------|
|                    | Effi.(dBi) | Peak gain(dBi) |
| WCDMA B1           | -5.3       | -0.6           |
| WCDMA B8           | -7.9       | -4.9           |
| LTE B1             | -5.3       | -0.6           |
| LTE B3             | -5.5       | -0.8           |
| LTE B5             | -7.9       | -5.9           |
| LTE B7             | -5.5       | -1.1           |
| LTE B8             | -7.9       | -4.9           |
| LTE B28            | -8.2       | -4.9           |

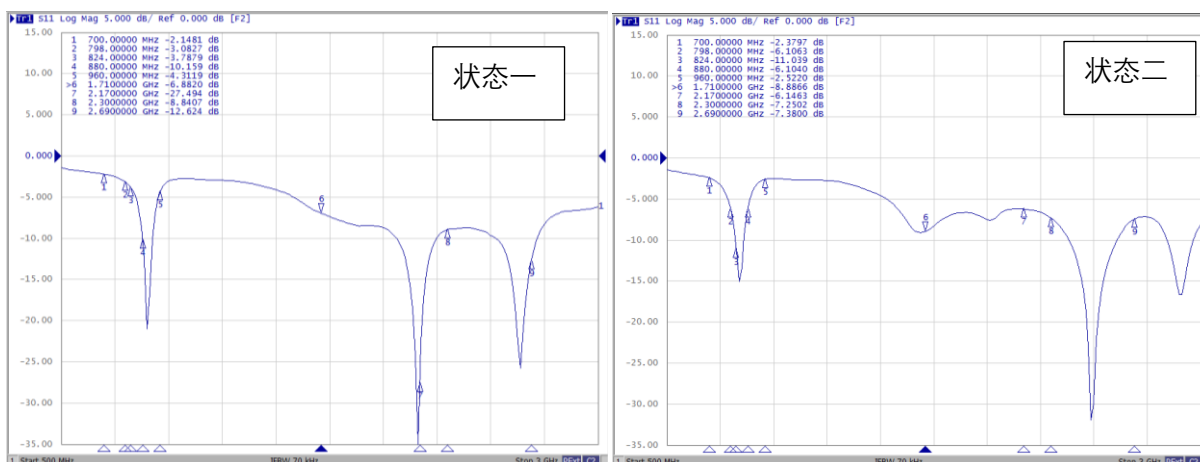


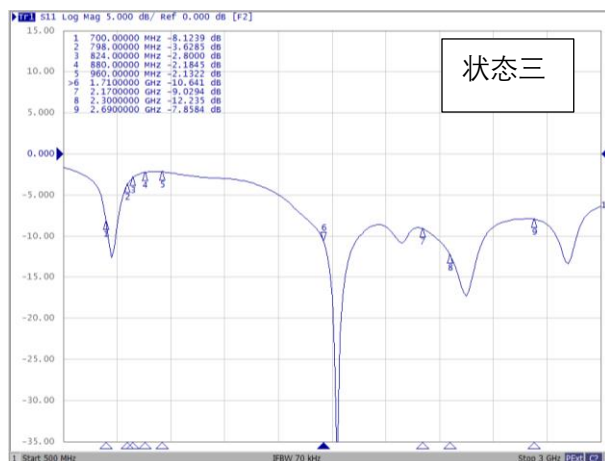
|         |      |      |
|---------|------|------|
| LTE B38 | -5.4 | -1.5 |
| LTE B41 | -5.4 | -1.4 |

| Band for Antenna 2 | DIV ant    |                |
|--------------------|------------|----------------|
|                    | Effi.(dBi) | Peak gain(dBi) |
| WCDMA B1           | -2.7       | 1.9            |
| WCDMA B8           | -8.6       | -3.9           |
| LTE B1             | -2.7       | 1.9            |
| LTE B3             | -3.6       | 0.4            |
| LTE B5             | -8.8       | -5.1           |
| LTE B7             | -5.6       | -0.7           |
| LTE B8             | -8.6       | -3.9           |
| LTE B28            | -8.8       | -4.8           |
| LTE B38            | -4.4       | -0.6           |
| LTE B41            | -4.7       | -0.6           |

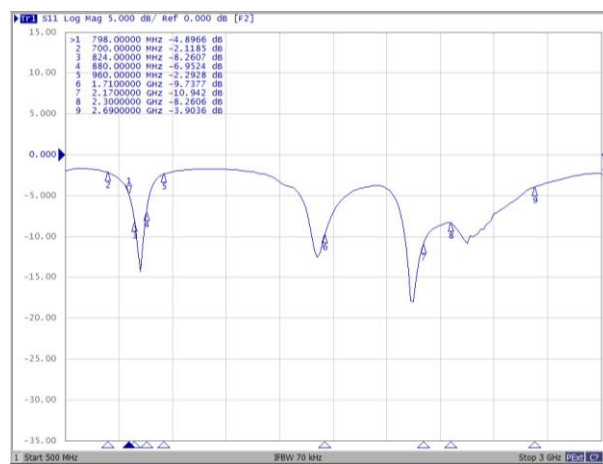
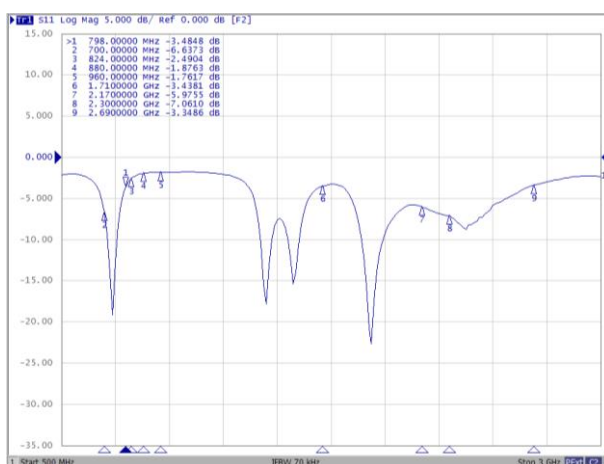
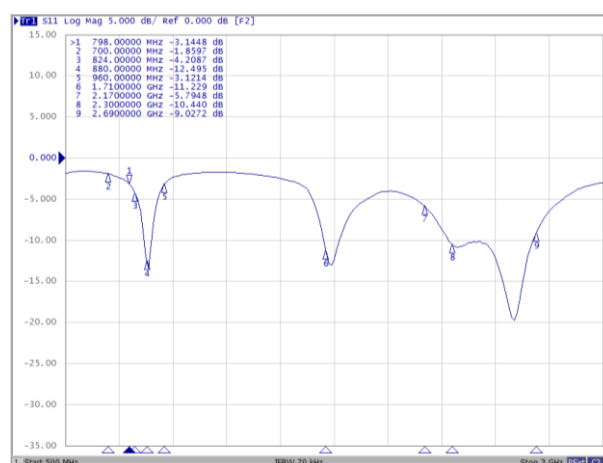
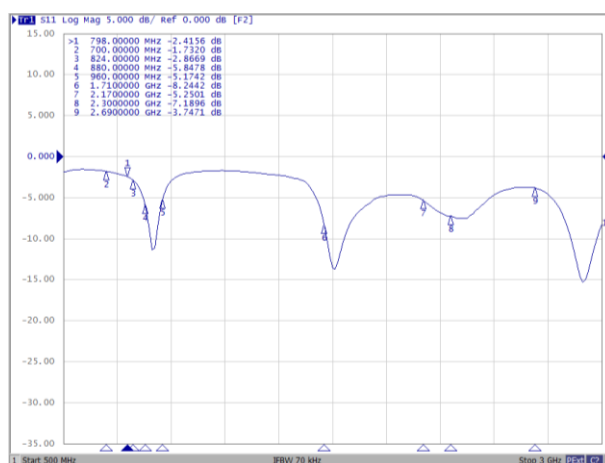
| Band for Antenna 3 | GPS/WIFI/BT ant |                |
|--------------------|-----------------|----------------|
|                    | Effi.(dBi)      | Peak gain(dBi) |
| 2.4G               | -4.15           | -1.1           |
| 5G (5.15-5.25GHz)  | -4.13           | -1.0           |
| 5G (5.25-5.35GHz)  | -4.03           | -0.9           |
| 5G (5.47-5.725GHz) | -4.5            | 0.0            |
| 5G (5.725-5.85GHz) | -4.98           | -0.6           |
| Bluetooth          | -4.15           | -1.1           |

S11:  
Main



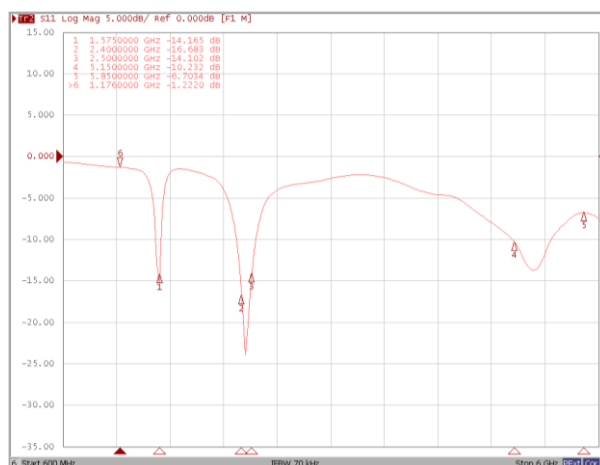


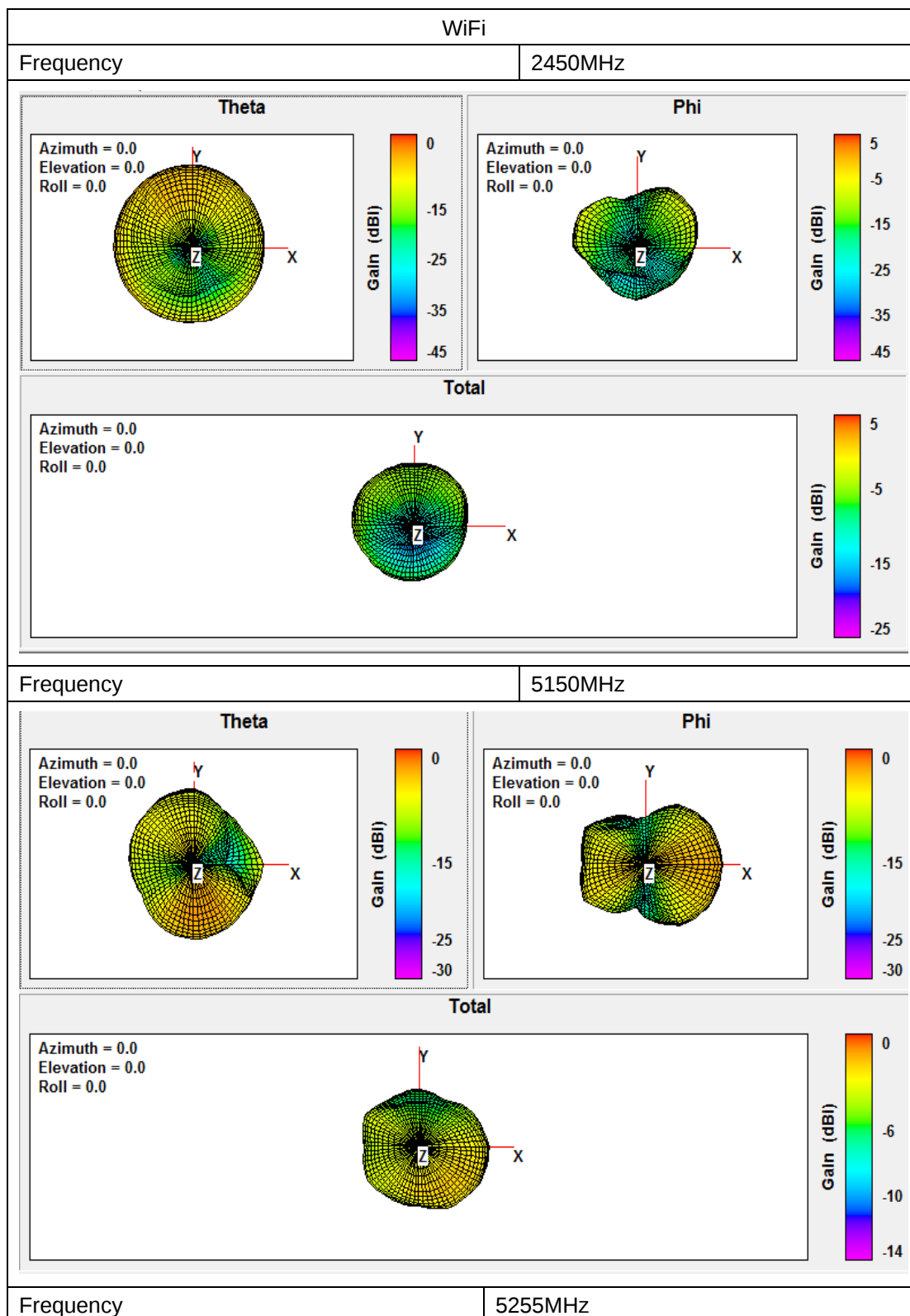
DIV

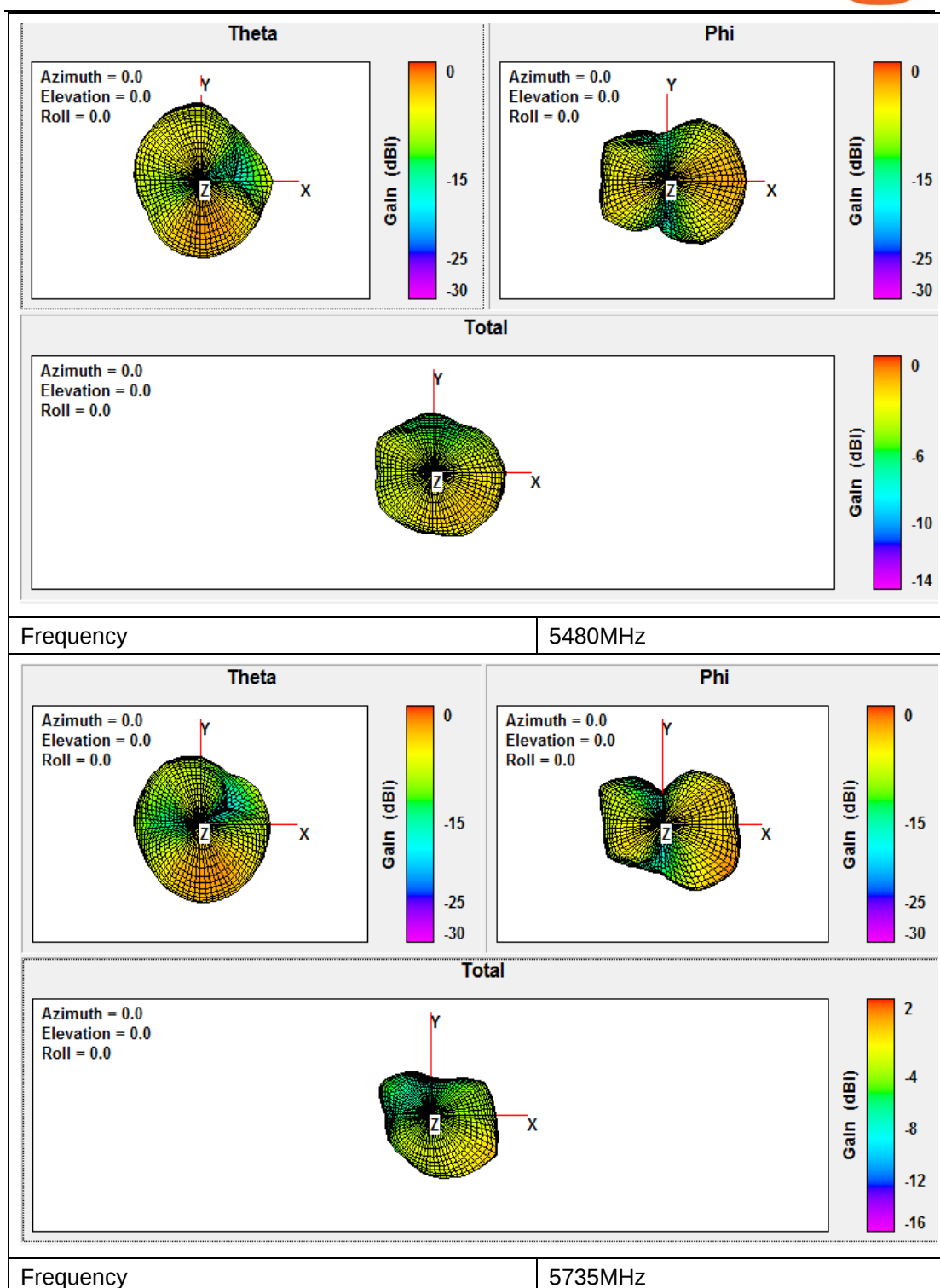


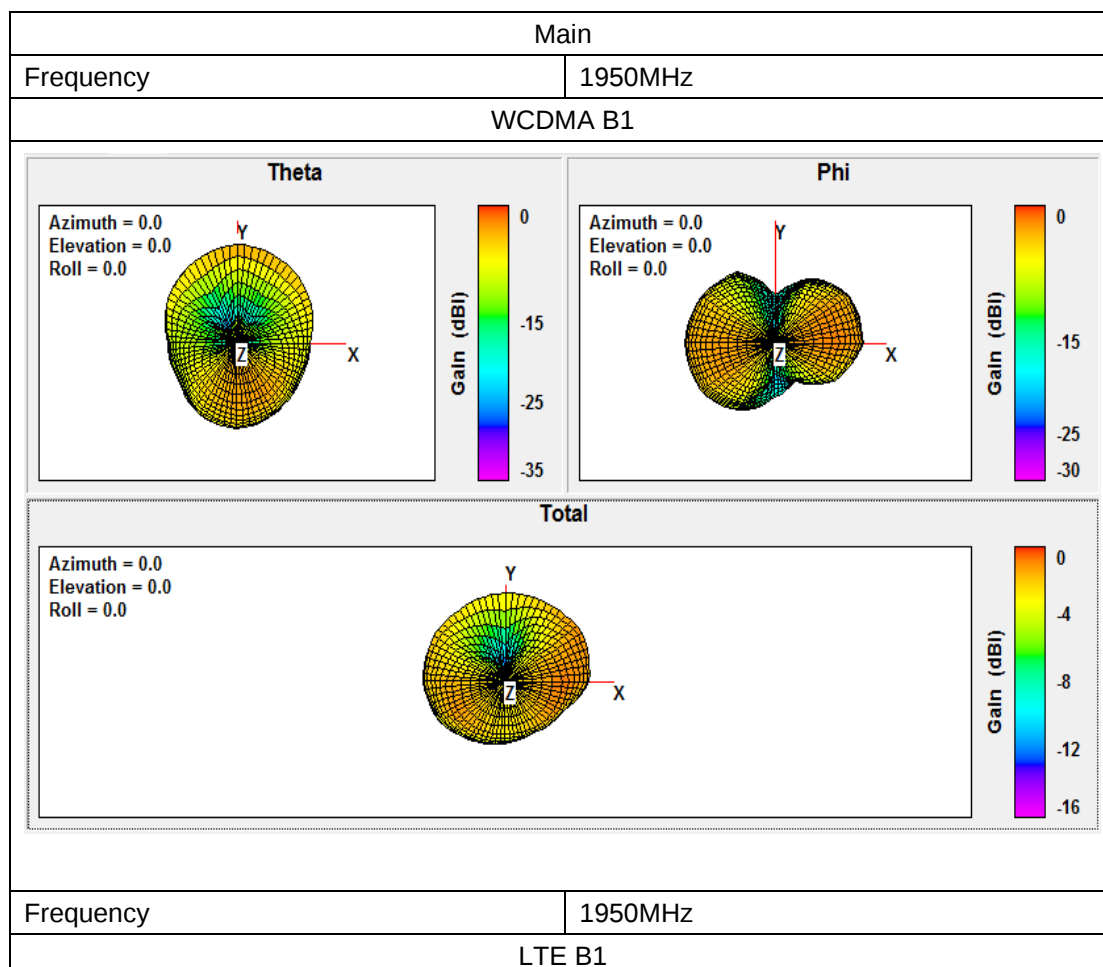
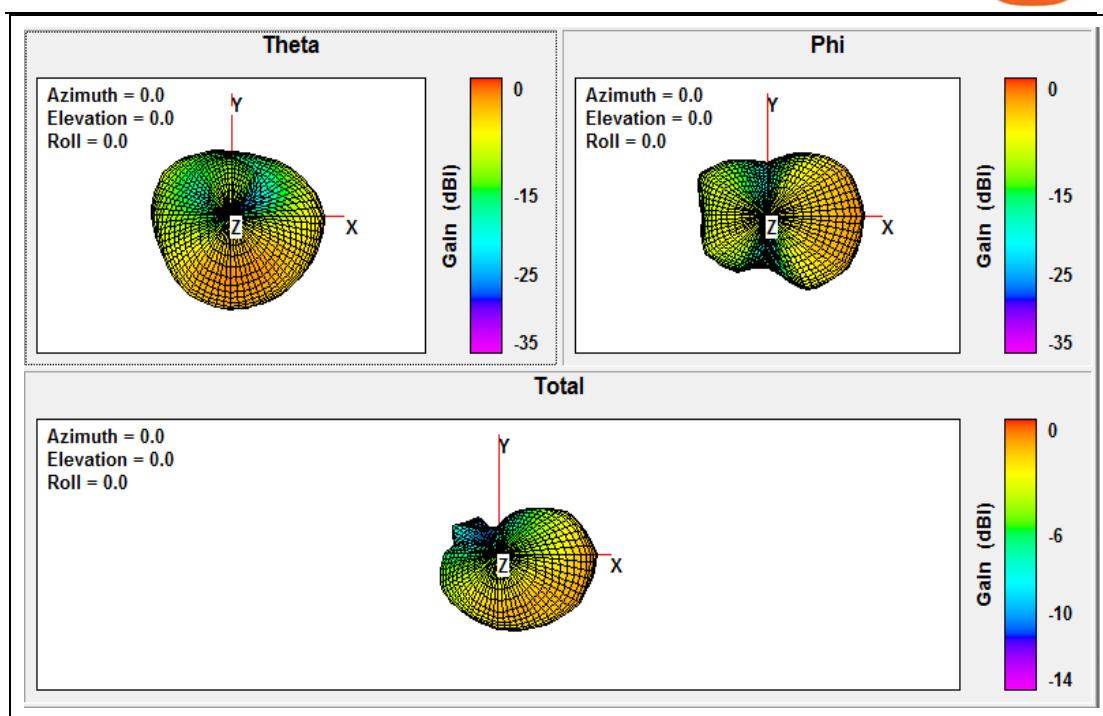


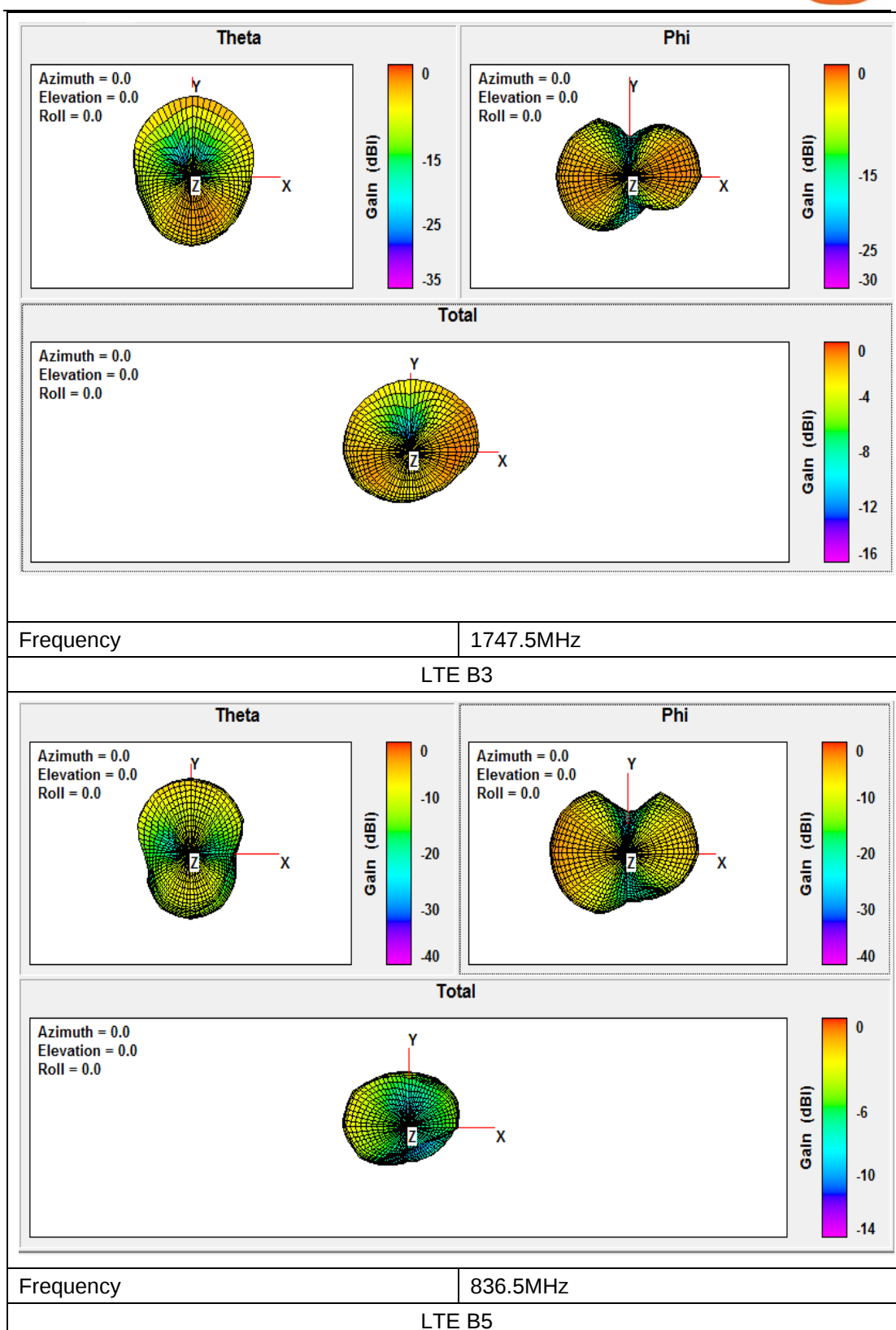
## GPS/WIFI/BT

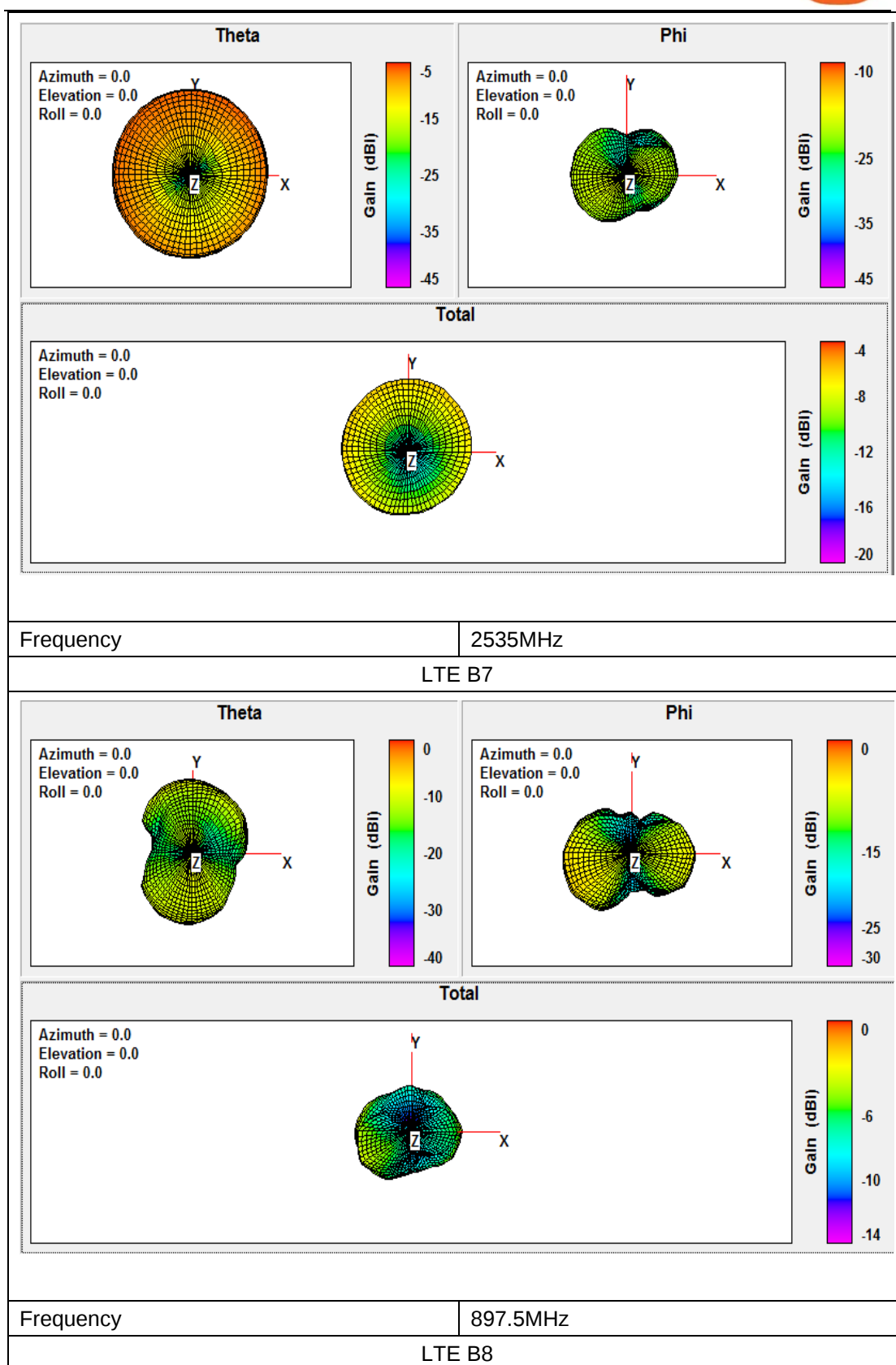


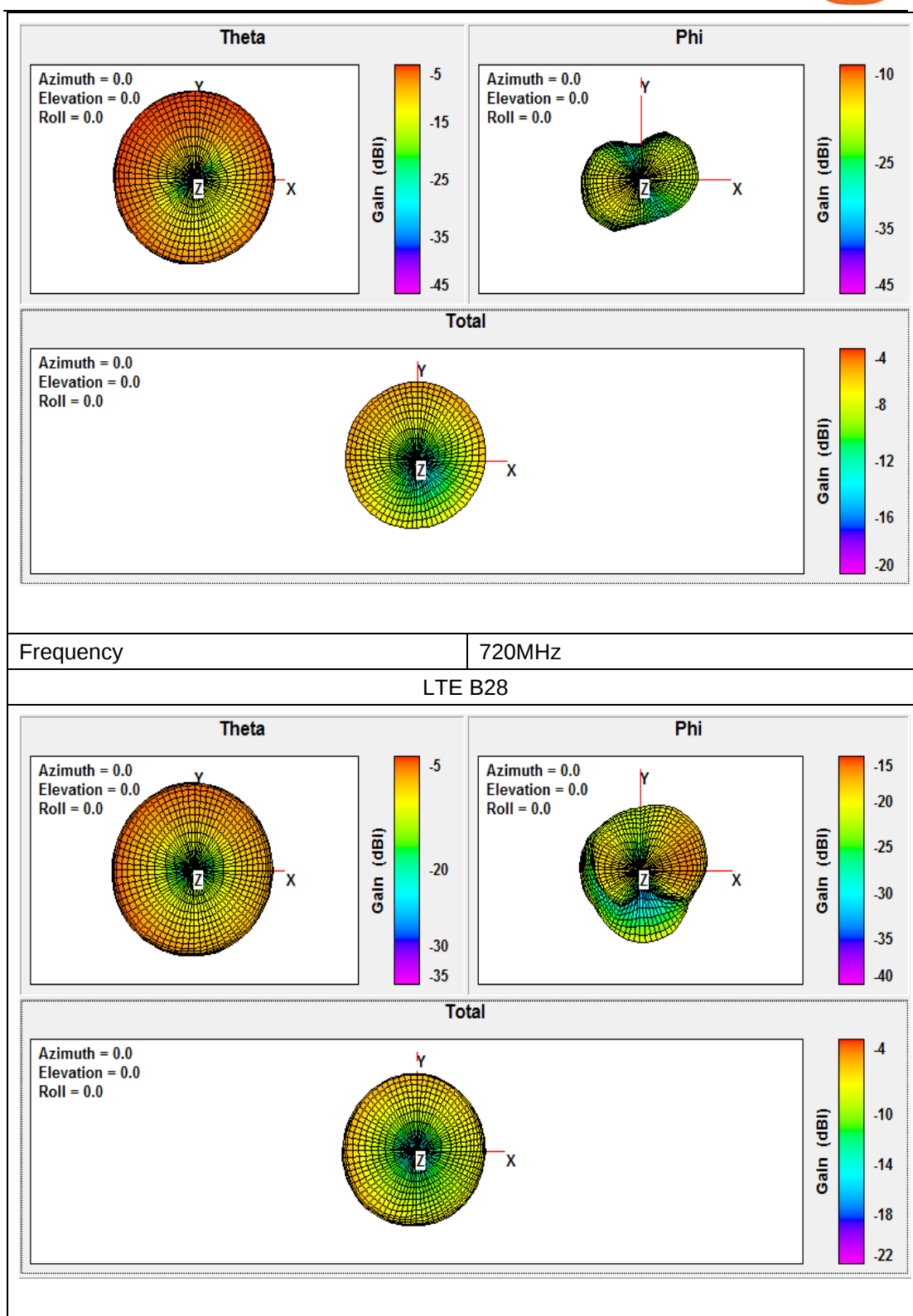


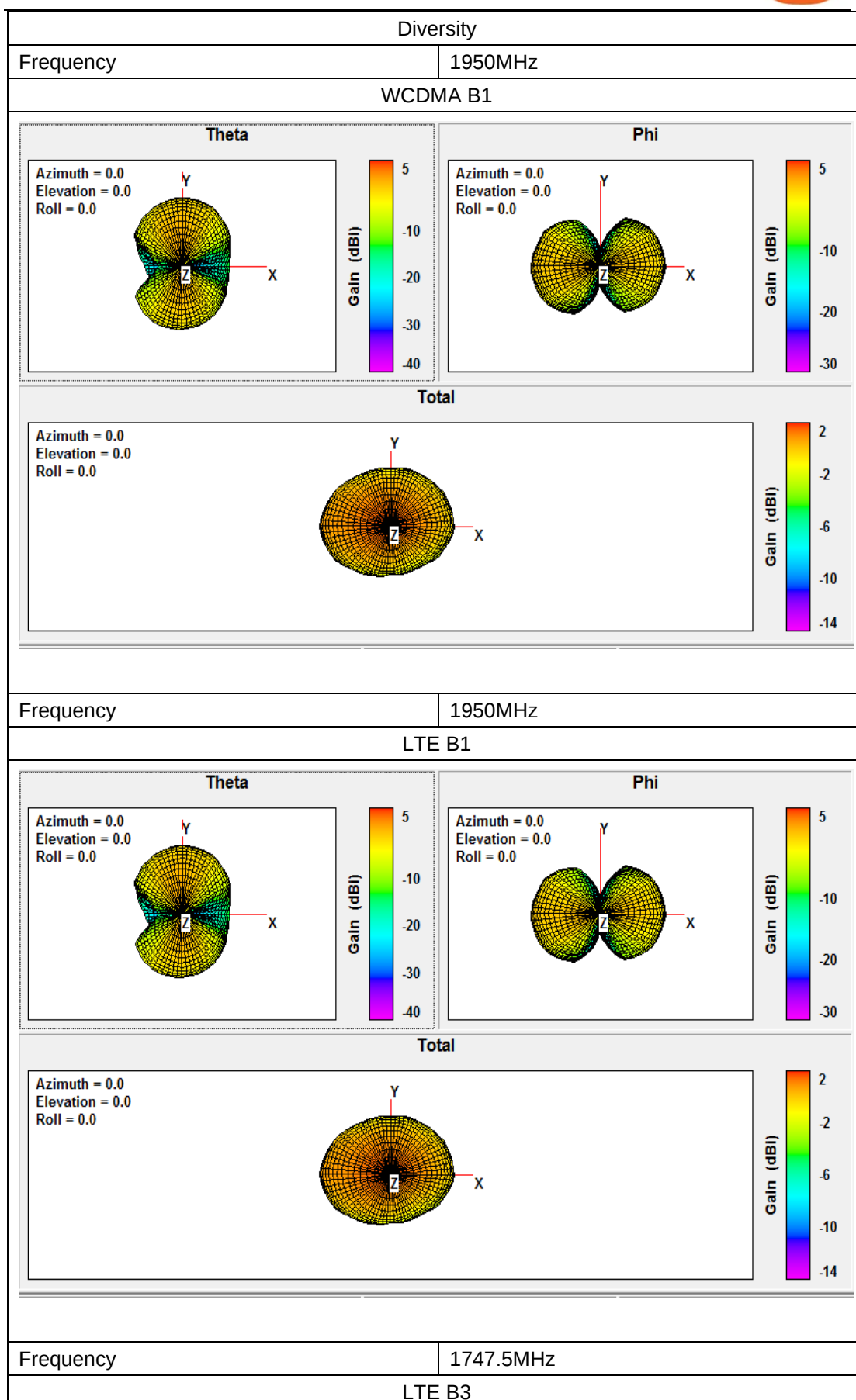


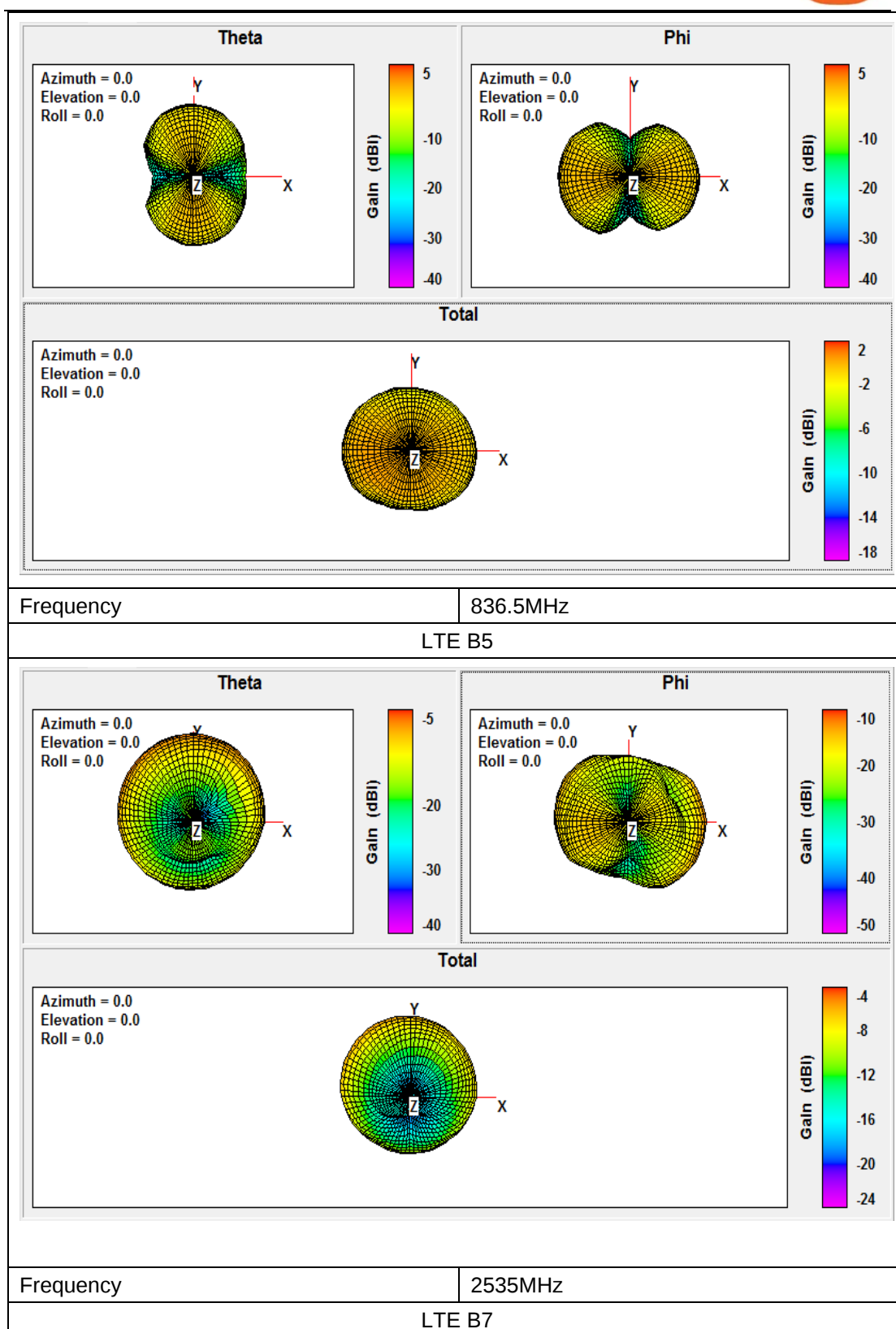


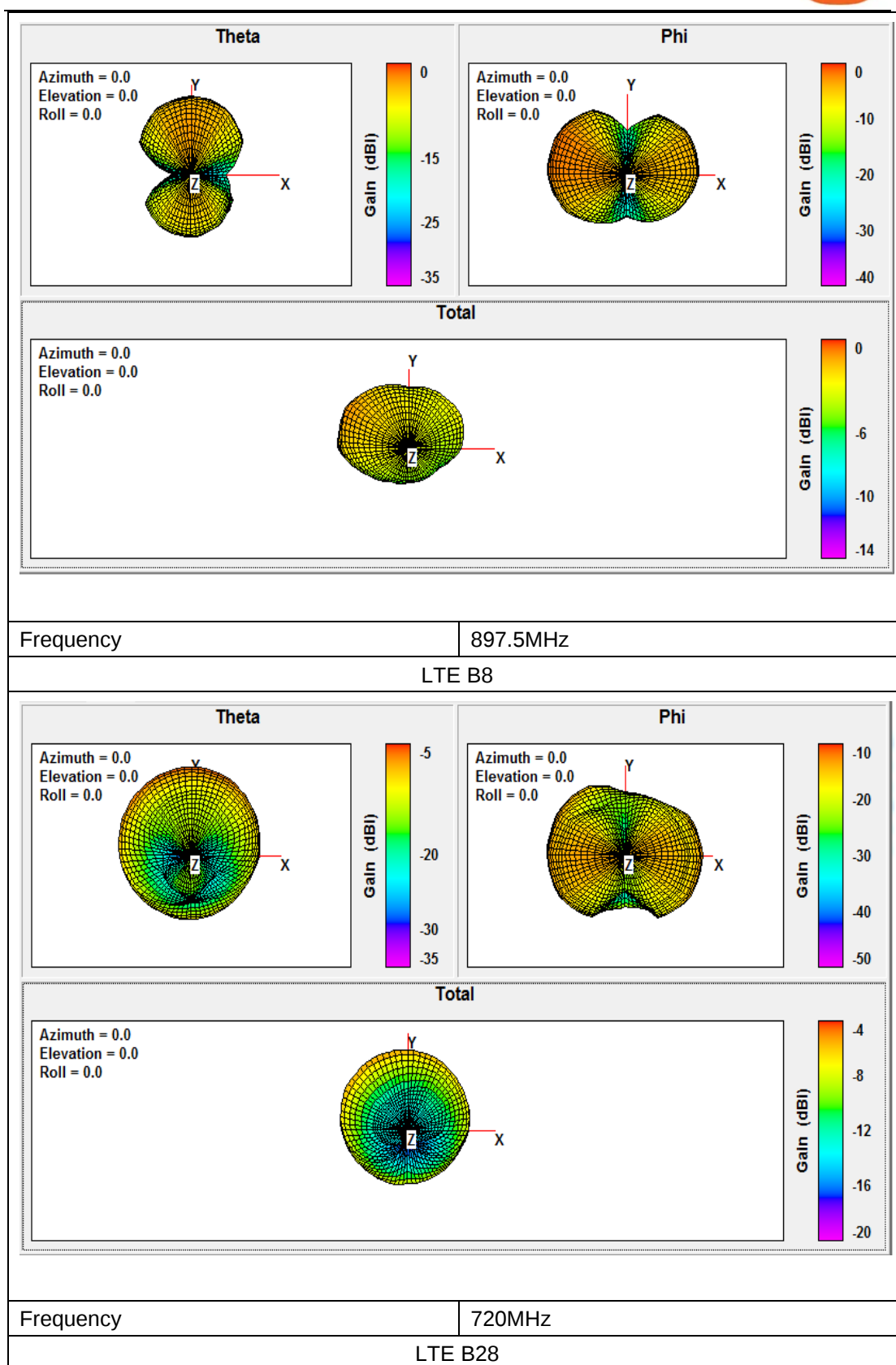


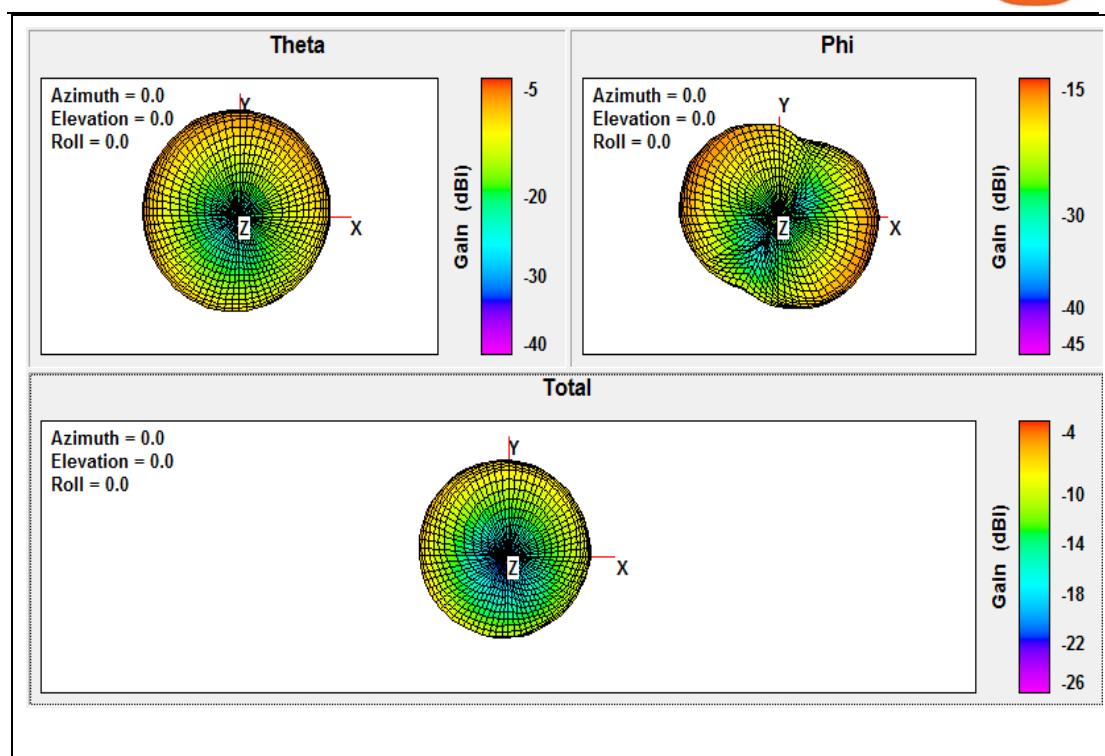












### 3. Main Test Instruments

| Name   | Manufacturer | Model name | Serial Number | Software         | Cal., Date | Exp., Date |
|--------|--------------|------------|---------------|------------------|------------|------------|
| P9371A | KEYSIGHT     | P9371A     | MY57212591    | Network Analyzer | 2024-3-29  | 2025-3-29  |

### 4. Test Site

Shanghai



End of Test Report