

## Electric Specifications

| TYPE                            |                                                                  |
|---------------------------------|------------------------------------------------------------------|
| Transmitter Frequency           | LTE 12/13/17/28:699–787MHz                                       |
|                                 | GSM850/WCDMA B5/LTE B5/20/26:814–862MHz                          |
|                                 | GSM 900/WCDMA B8/LTE B8:880–915MHz                               |
|                                 | DCS 1800/WCDMA B4/LTE B3/4/66:1710–1785MHz                       |
|                                 | WCDMA B1/LTE B1:1920–1980MHz                                     |
|                                 | PCS 1900/WCDMA B2/LTE B2/25:1850–1910MHz                         |
|                                 | LTEB7/38/41:2500–2570MHz                                         |
|                                 | LTE B40:2300–2400MHz                                             |
| Received Frequency              | LTE 12/13/17/28:729–803MHz                                       |
|                                 | GSM850/WCDMA B5/LTE B5/20/26:858–894MHz 791–821MHz               |
|                                 | GSM 900/WCDMA B8/LTE B8:925–960MHz                               |
|                                 | DCS 1800/WCDMA B4/LTE B3/4/66:1805–1880MHz 2110–2200MHz          |
|                                 | WCDMA B1/LTE B1:2110–2170MHz                                     |
|                                 | PCS 1900/WCDMA B2/LTE B2/25:1930–1995MHz                         |
|                                 | LTEB7/38/41:2555–2685MHz                                         |
|                                 | LTE B40:2300–2400MHz                                             |
| RF-Output Power<br>(E. I. R. P) | GSM850/900:33+/-2dbm                                             |
|                                 | DCS/PCS:30+/-2dbm                                                |
|                                 | WCDMA B1/2/4/5/8 23+/-2dbm                                       |
|                                 | LTE<br>B1/2/3/4/5/7/8/12/13/17/20/25/26/28/38/40/41/66:23+/-2dbm |
| Antenna Gain(Peak<br>Gain)      | LTE B12/13/17/28:-5.46                                           |
|                                 | GSM 850/W B5/LTE B5/20/26:-5.17                                  |
|                                 | GSM 900/W B8/LTE B8:-5.14                                        |
|                                 | DCS 1800/WCDMA B4/LTE B3/4/66:-2.26                              |
|                                 | PCS 1900/WCDMA B2/LTE B2/25:-1.09                                |
|                                 | WCDMA B1/LTE B1:-1.3                                             |
|                                 | LTEB7/38/41:0.08                                                 |
|                                 | LTE B40:-1.58                                                    |
|                                 | GPS:1.54                                                         |
|                                 | BT/WIFI 2.4G:-0.075                                              |
|                                 | WIFI 5G:-0.61                                                    |
| Type of Modulation              | GMSK                                                             |

# Supplier information

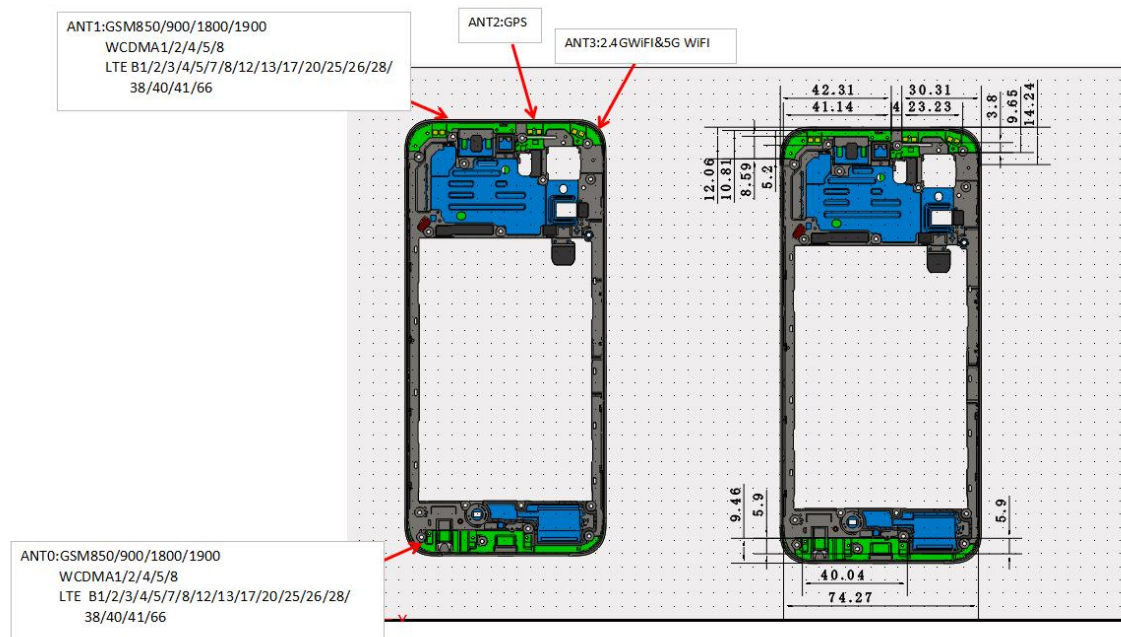
Project Name: X6728

Company: Kunshan Innwave Communication Technology Co., Ltd.

Address: Building H,intu ZhizaoPark,No. 55 Shengchuang Road,Yushan Town,Kunshan City, Jiangsu Province,China

| Antenna Name                | Model           | Part Number |
|-----------------------------|-----------------|-------------|
| Main                        | F113K16011A1000 | V633A-MAIN  |
| DIV                         | F113K16015A1000 | V633A-DIV   |
| GPS/BT/WIFI<br>2.4G/WIFI 5G | F113K1601FA1000 | V633A-3IN1  |

## Antenna size



## NFC-Antenna size

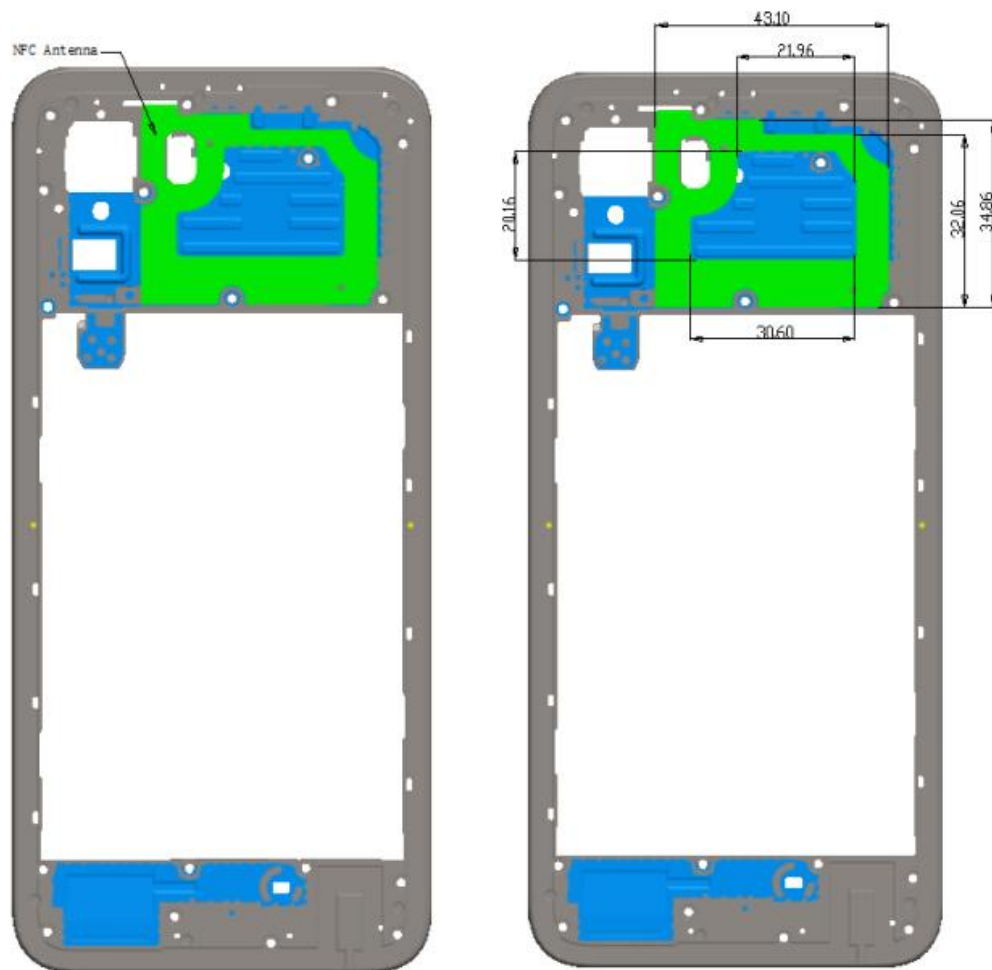
# Supplier information

Project Name: X6728

Company:ETHEAT Communication Technology (ShenZhen) Co.,Ltd.

Address: Factory 401, No.6 Zhangfeng Road, Dongfang Community,  
Songgang Street, Baoan District, Shenzhen

| Antenna Name | Model          | Part Number |
|--------------|----------------|-------------|
| NFC Antenna  | RD992501NB87-1 | V633A-NFC   |

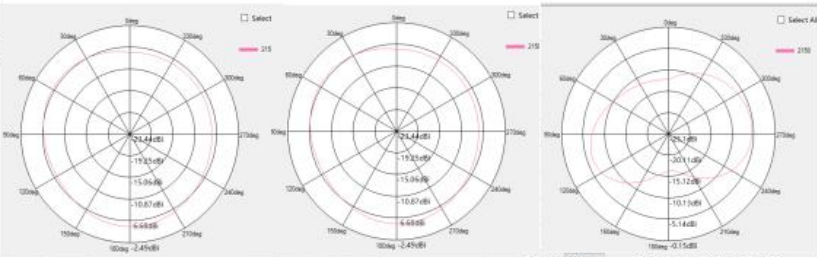


# Antenna gain

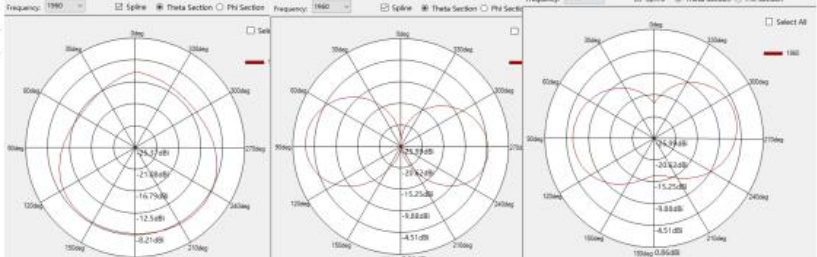
| Band      | Main Antenna(dBi) | Band    | Div Antenna(dBi) |
|-----------|-------------------|---------|------------------|
|           | Average           |         | Average          |
| LTE B1    | -0.14             | LTE B1  | -1.71            |
| LTE B2    | -0.05             | LTE B2  | -1.92            |
| LTE B3    | -2.13             | LTE B3  | -2.8             |
| LTE B4    | -2.97             | LTE B4  | -1.55            |
| LTE B5    | -4.96             | LTE B5  | -5.6             |
| LTE B7    | -2.34             | LTE B7  | -0.17            |
| LTE B8    | -4.74             | LTE B8  | -5.65            |
| LTE B12   | -6.67             | LTE B12 | -6.61            |
| LTE B13   | -5.10             | LTE B13 | -6.01            |
| LTE B17   | -6.67             | LTE B17 | -6.35            |
| LTE B25   | -0.05             | LTE B25 | -1.92            |
| LTE B26   | -4.96             | LTE B26 | -5.60            |
| LTE B66   | -2.13             | LTE B66 | -1.72            |
| LTE B20   | -5.13             | LTE B20 | -5.79            |
| LTE B28   | -6.46             | LTE B28 | -5.8             |
| LTE B38   | -3.21             | LTE B38 | -0.18            |
| LTE B40   | -0.65             | LTE B40 | -5.6             |
| LTE B41   | -2.52             | LTE B41 | -0.92            |
| GSM850    | -4.96             | GSM850  | -5.6             |
| GSM900    | -4.74             | GSM900  | -5.65            |
| GSM1800   | -2.13             | GSM1800 | -2.8             |
| GSM1900   | -0.05             | GSM1900 | -1.92            |
| WCDMA 1   | -0.14             | WCDMA 1 | -1.71            |
| WCDMA 2   | -0.05             | WCDMA 2 | -1.92            |
| WCDMA 4   | -2.97             | WCDMA 4 | -1.55            |
| WCDMA 5   | -4.96             | WCDMA 5 | -5.6             |
| WCDMA 8   | -4.74             | WCDMA 8 | -5.65            |
| Band      | WIFI              | Band    | GPS              |
|           | Average           |         | Average          |
| 2.4g wifi | -0.92             | GPS     | -1.54            |
| 5g wifi   | -1.64             |         |                  |

ANTO

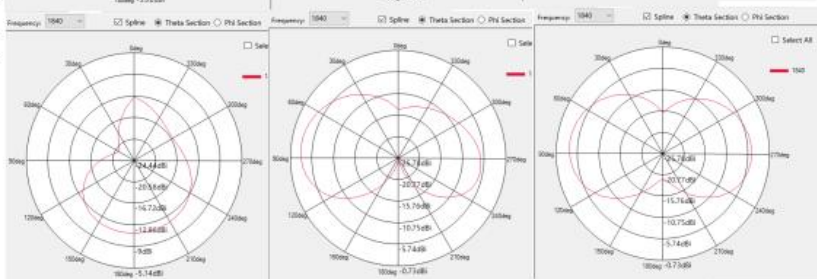
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|----|-------|
| B1 | -1.71 |



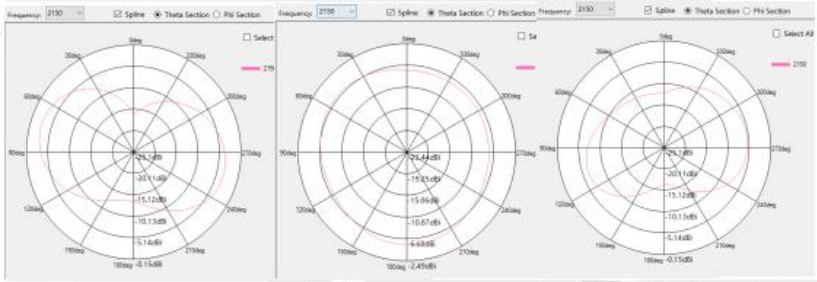
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|----|-------|
| B2 | -1.92 |



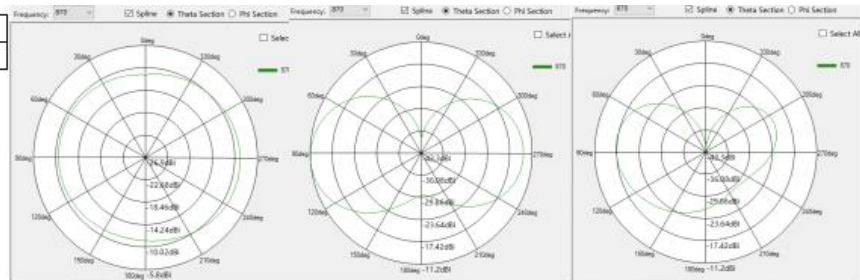
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|----|-------|
| B3 | -2.8  |



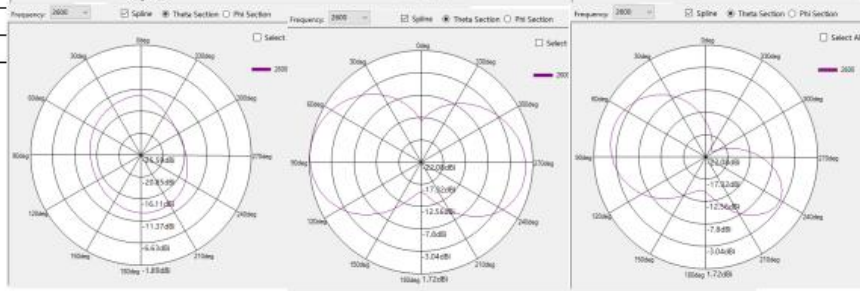
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| B4 | -1.55 |



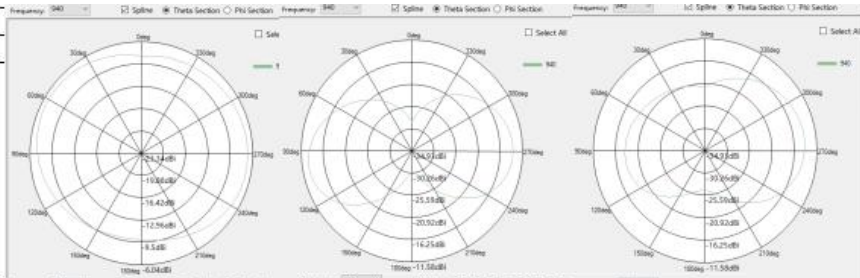
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|----|-------|
| B5 | -5.6  |



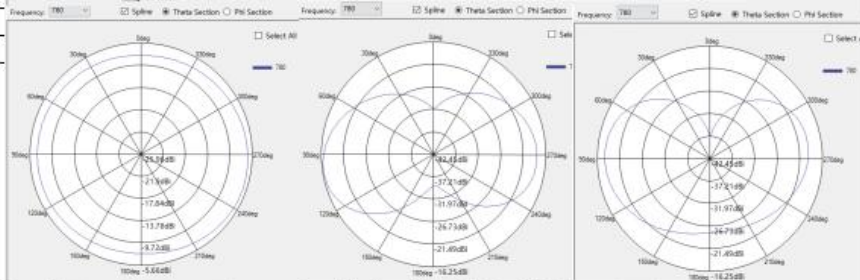
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| B7 | -0.17 |



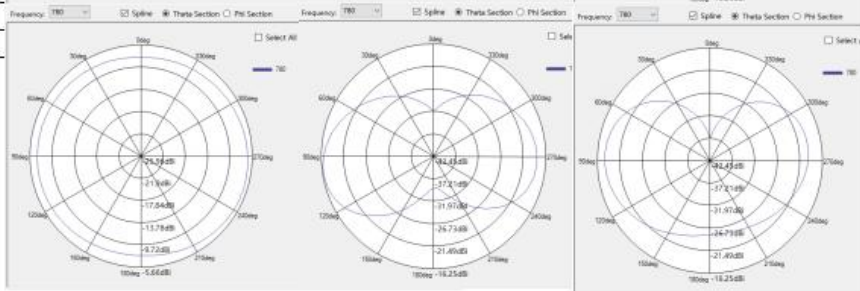
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| B8 | -5.65 |



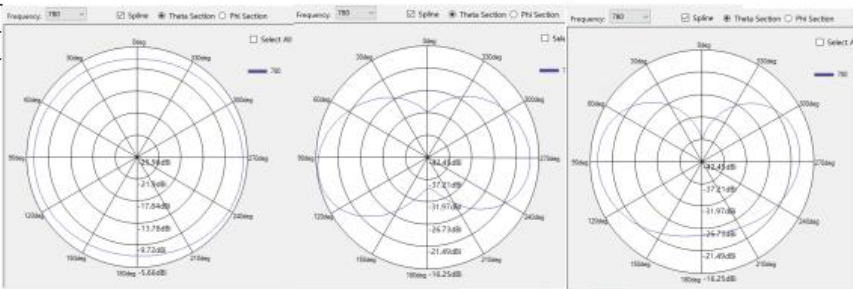
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|-----|-------|
| B12 | -6.61 |



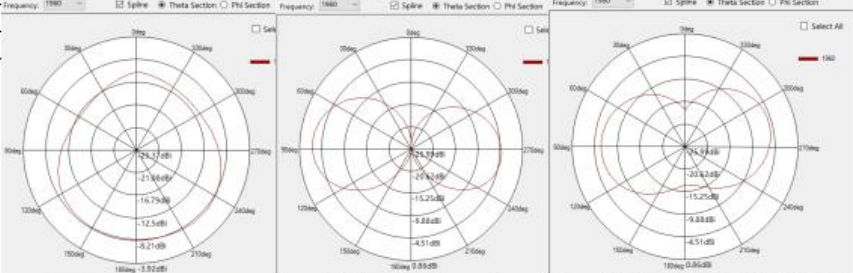
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|-----|-------|
| B13 | -6.01 |



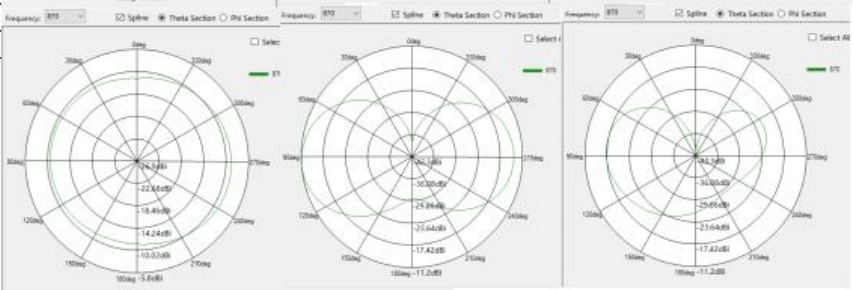
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| B17 | -6.35 |



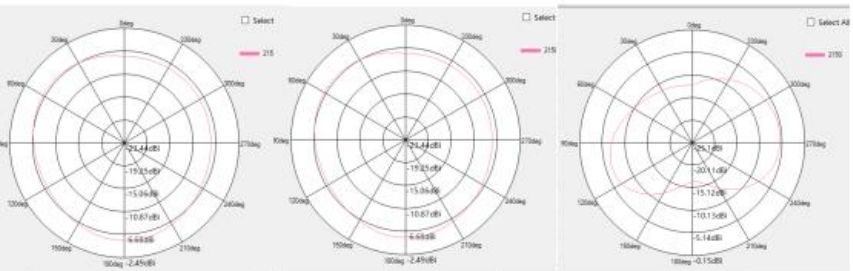
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|-----|-------|
| B25 | -1.92 |



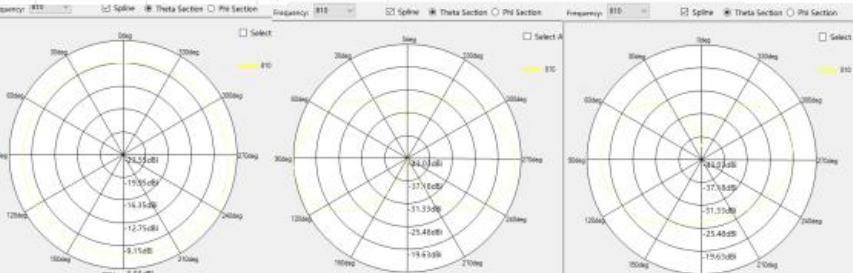
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| B26 | -5.6  |



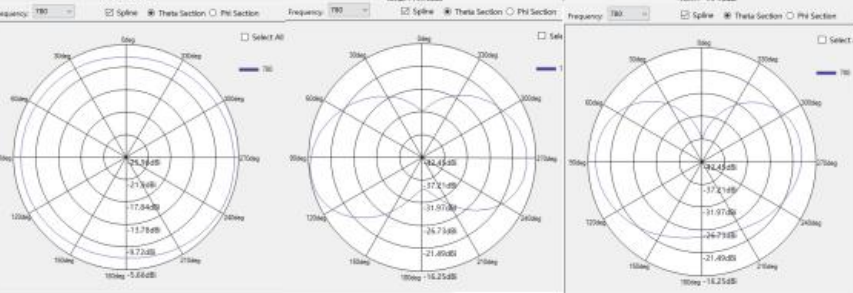
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| B66 | -1.72 |



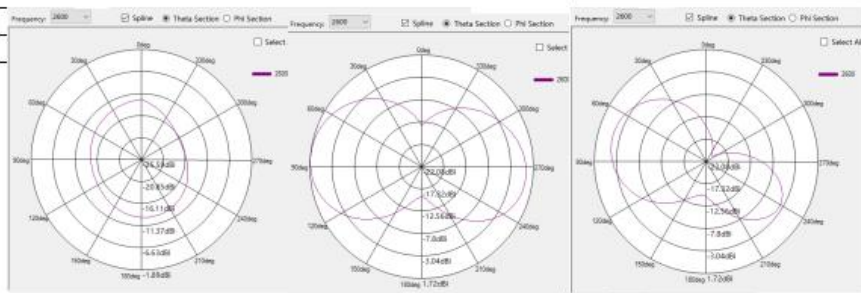
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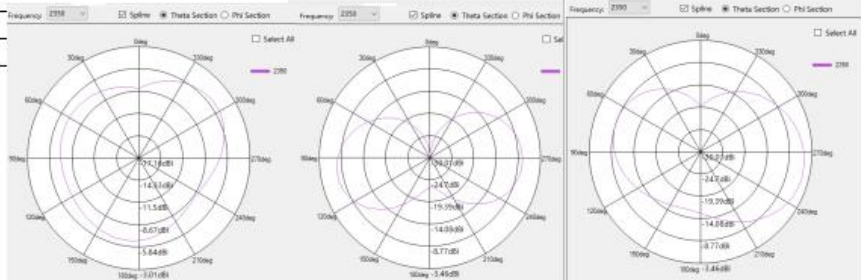
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| B28 | -5.8  |



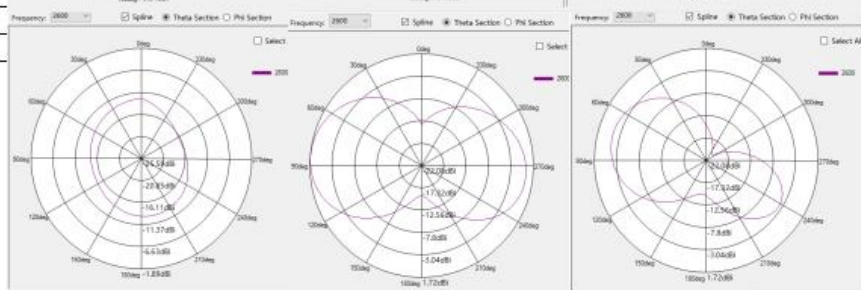
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|-----|-------|
| B38 | -0.18 |



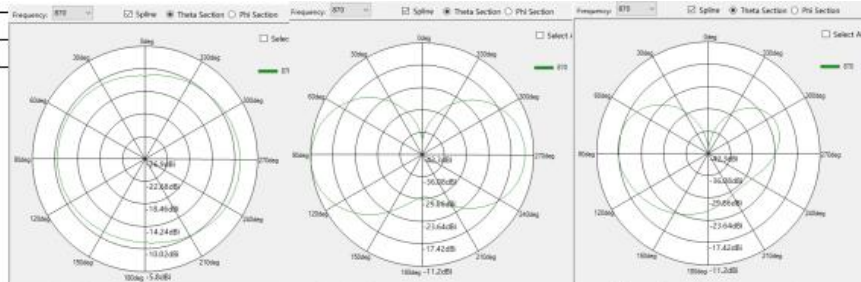
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| B40 | -5.6  |



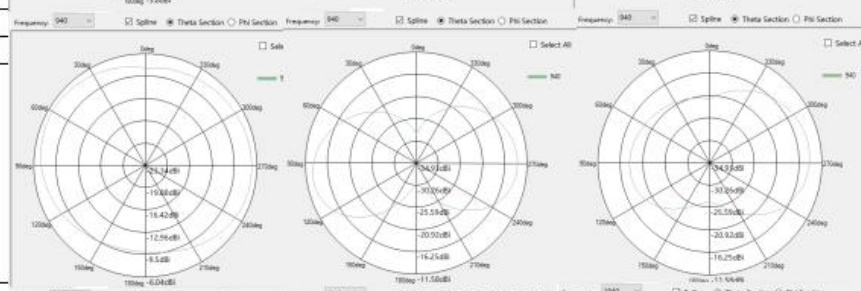
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|-----|-------|
| B41 | -0.92 |



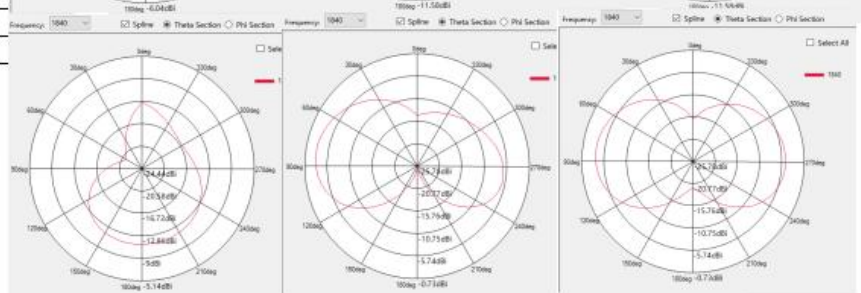
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|--------|-------|
| GSM850 | -5.6  |



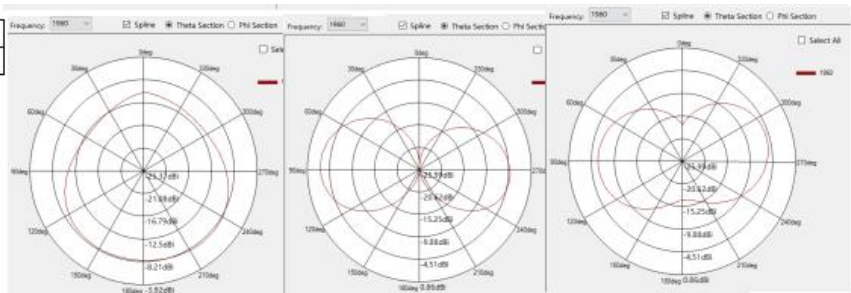
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|--------|-------|
| GSM900 | -5.65 |



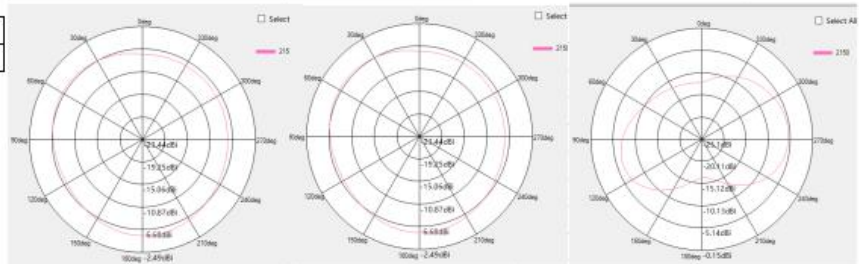
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|---------|-------|
| GSM1800 | -2.8  |



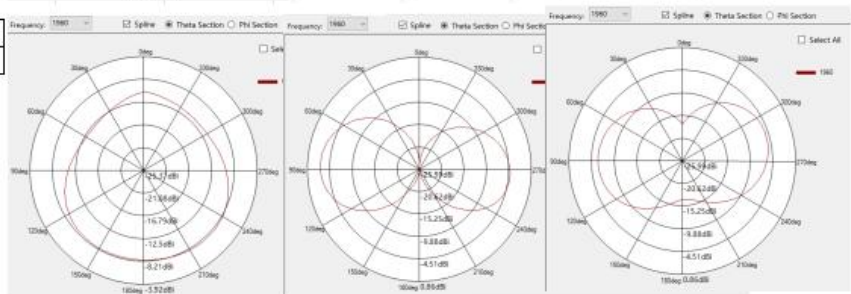
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| GSM1900 | -1.92 |



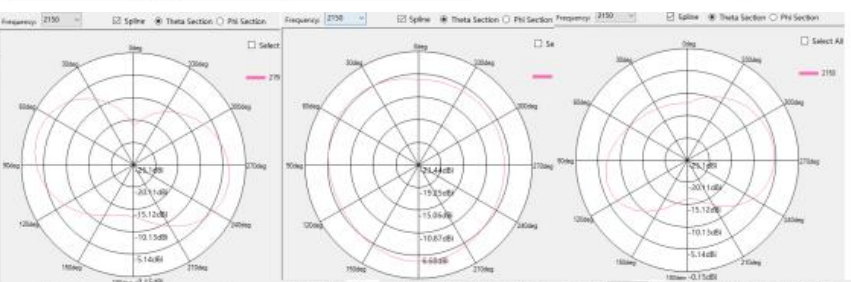
| 频段 | 增益dbi |
|----|-------|
| W1 | -1.71 |



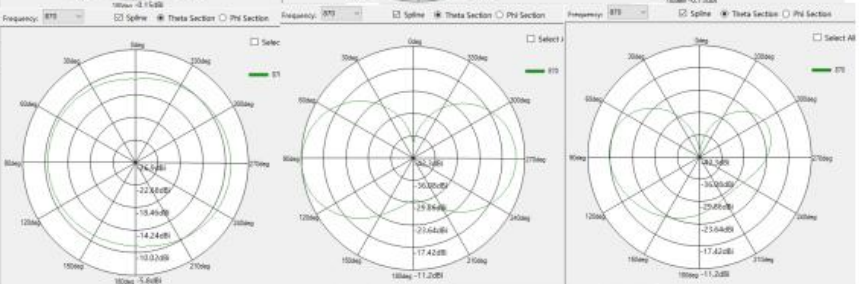
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|----|-------|
| W2 | -1.92 |



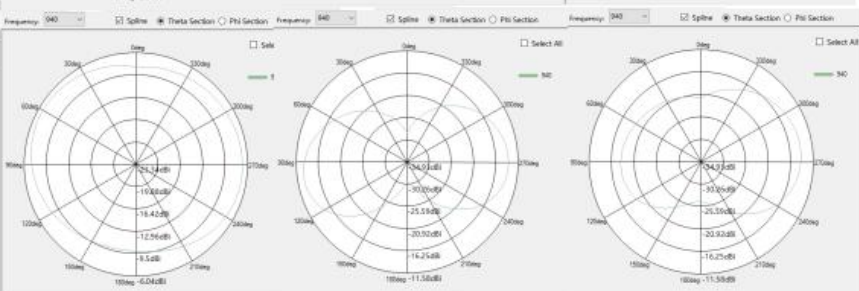
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|----|-------|
| W4 | -1.55 |



| 频段 | 增益dbi |
|----|-------|
| W5 | -5.6  |

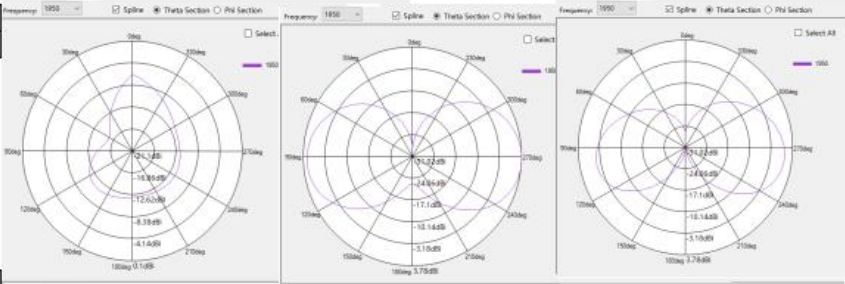


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|----|-------|
| W8 | -5.65 |

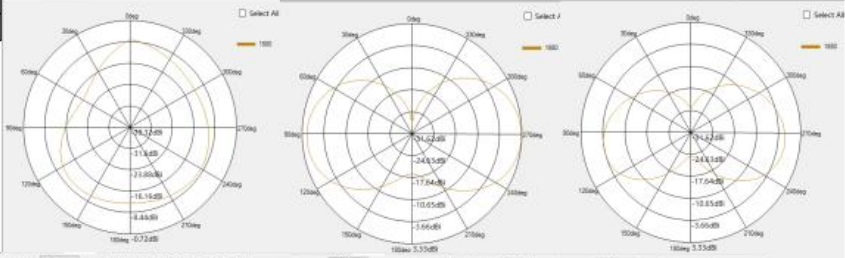


ANT1

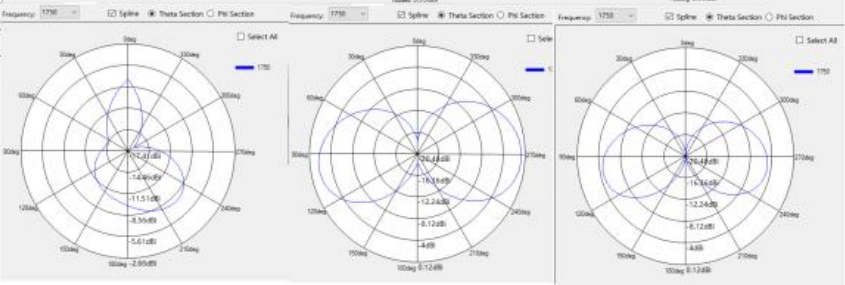
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| B1 | -0.14 |



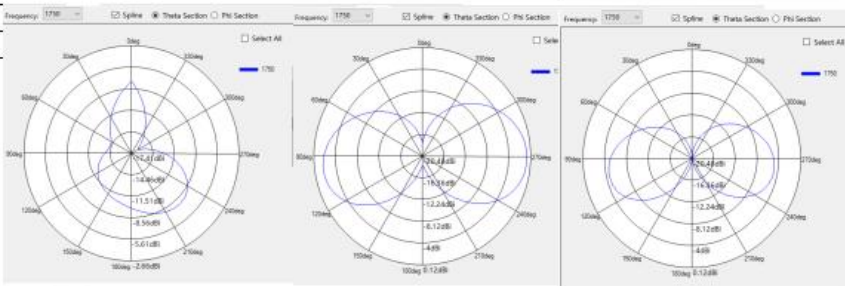
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|----|-------|
| B2 | -0.05 |



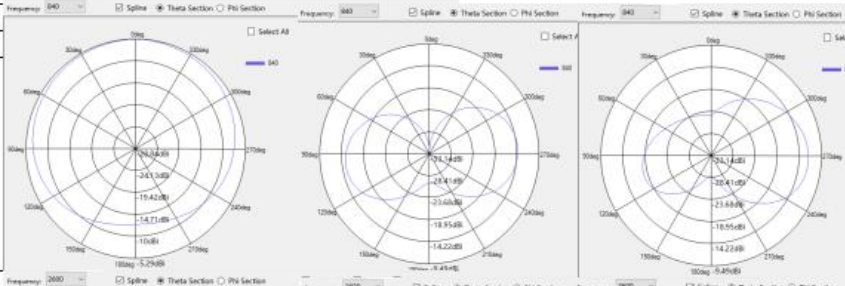
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| B3 | -2.13 |



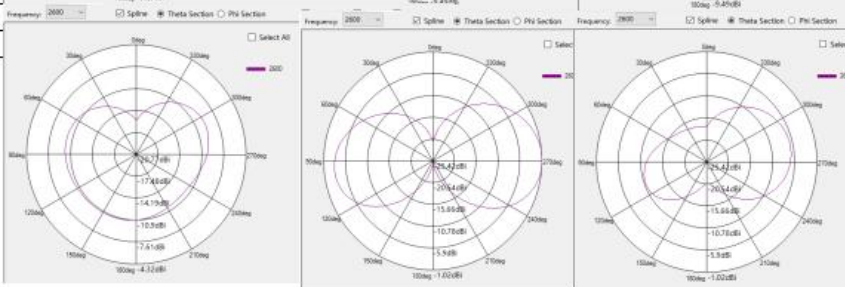
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| B4 | -2.97 |



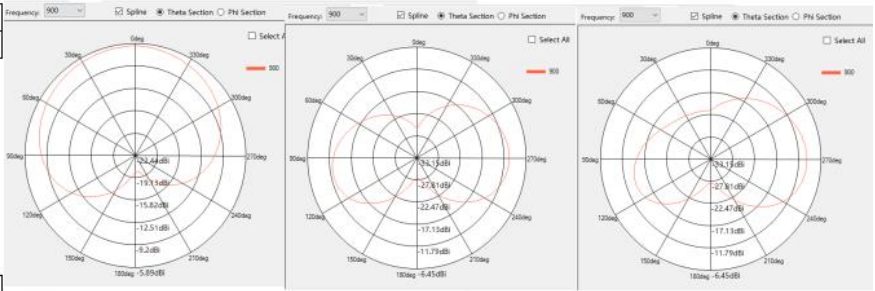
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| B5 | -4.96 |



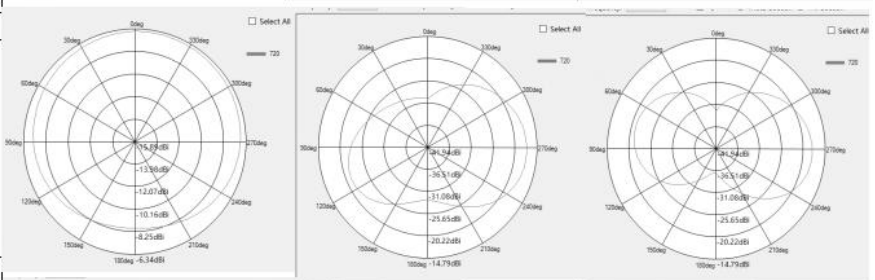
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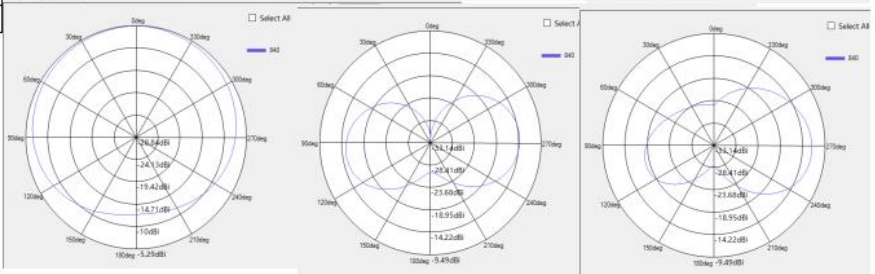
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| B8 | -4.74 |



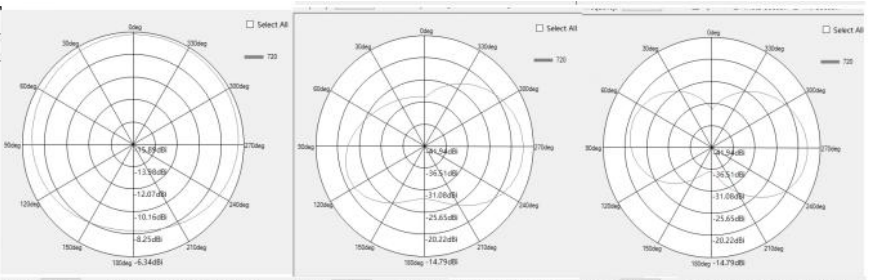
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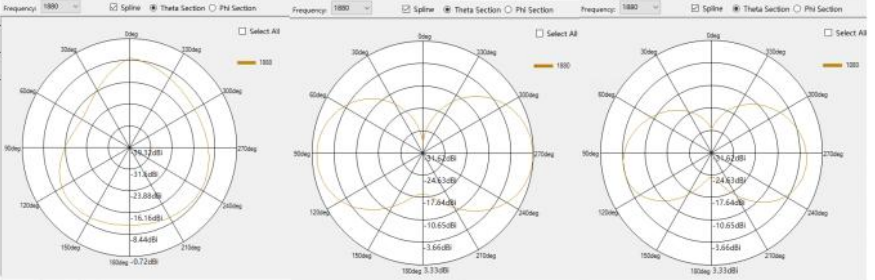
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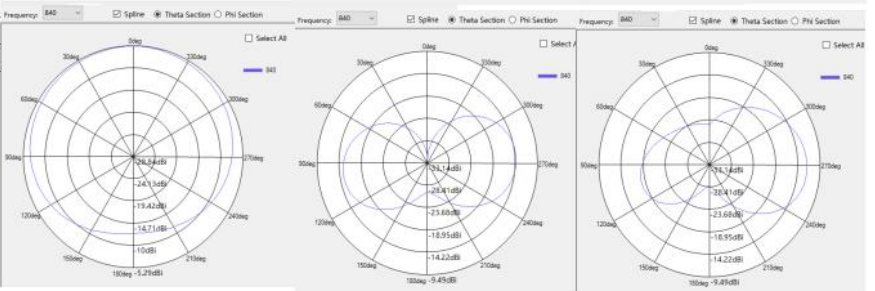
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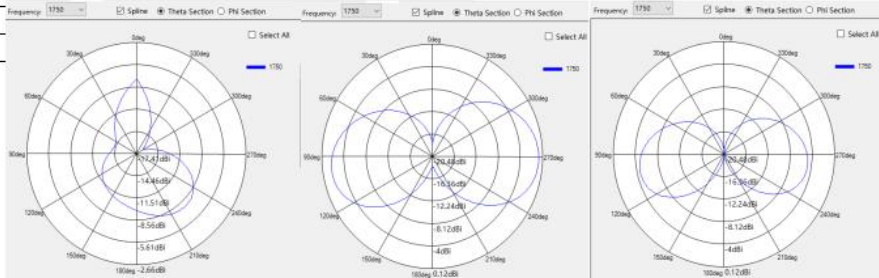
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| B25 | -0.05 |



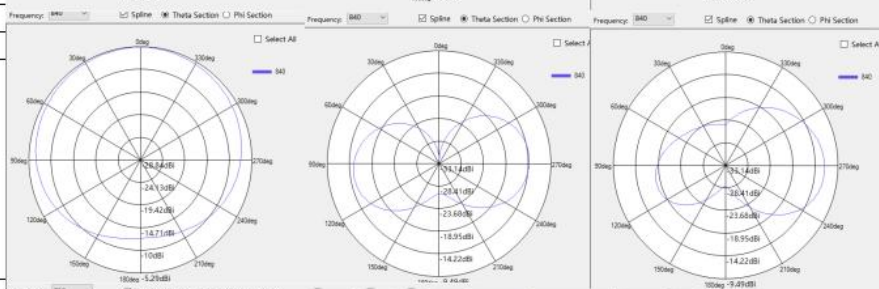
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| B26 | -4.96 |



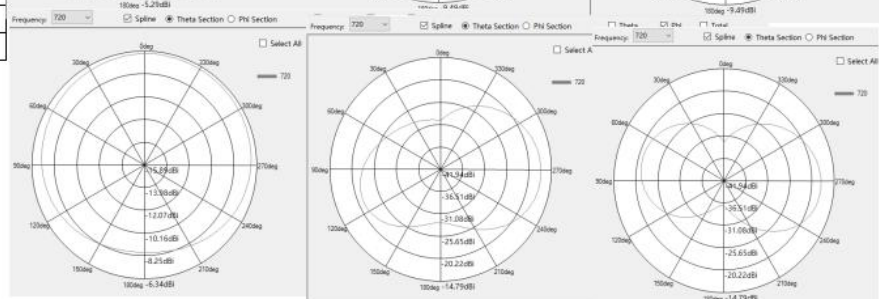
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| B66 | -2.13 |



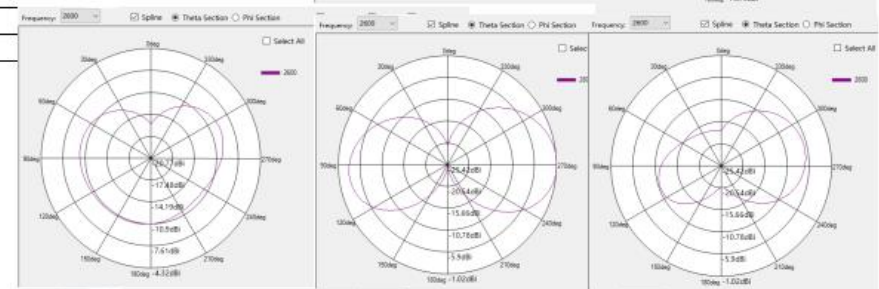
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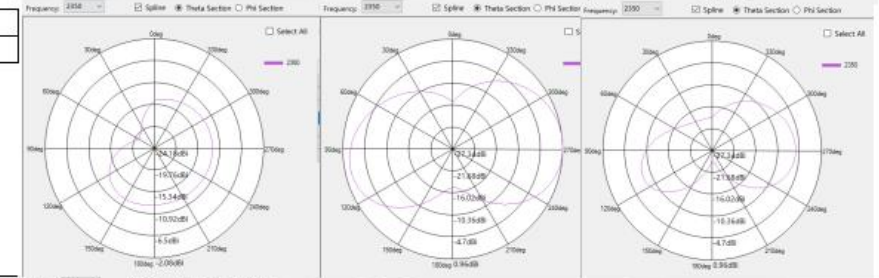
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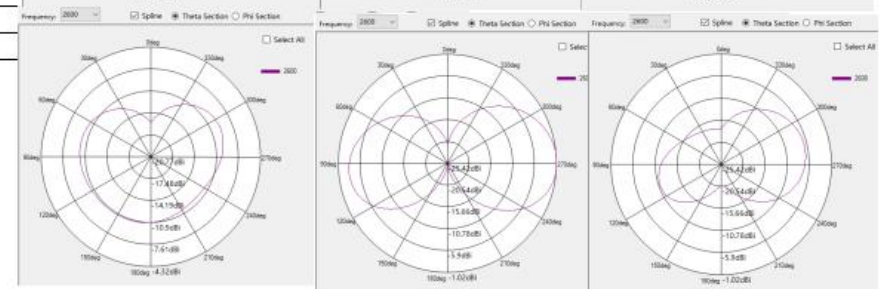
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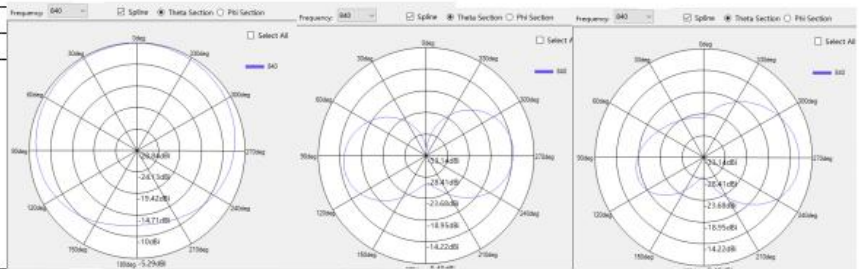
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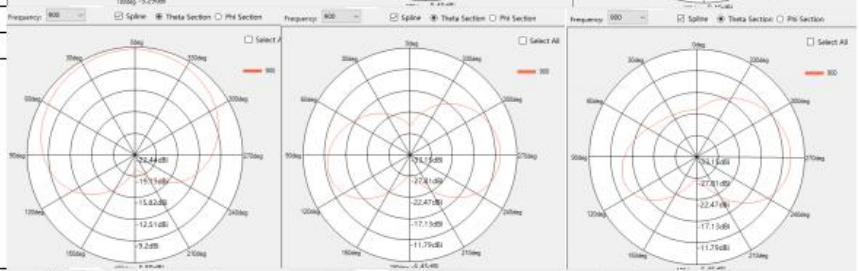
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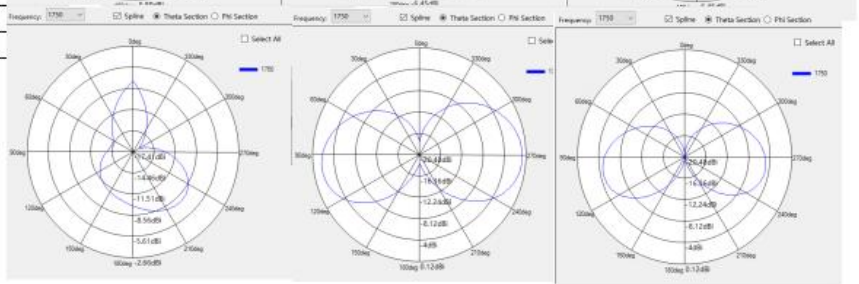
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| GSM850 | -4.96 |



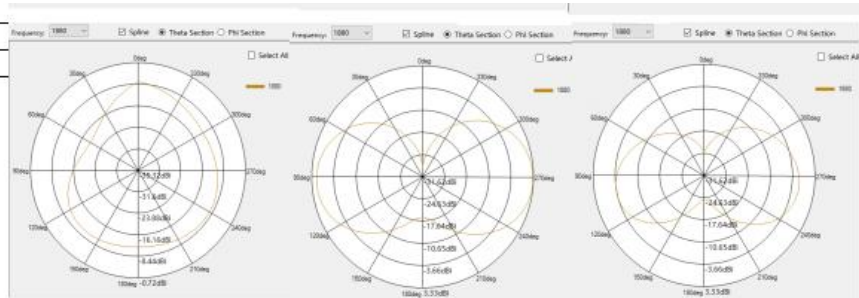
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| GSM900 | -4.74 |



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|---------|-------|
| GSM1800 | -2.13 |



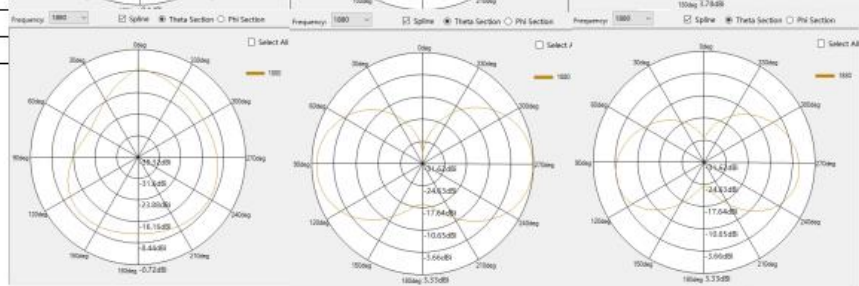
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|---------|-------|
| GSM1900 | -0.05 |



| 频段 | 增益dbi |
|----|-------|
| W1 | -0.14 |



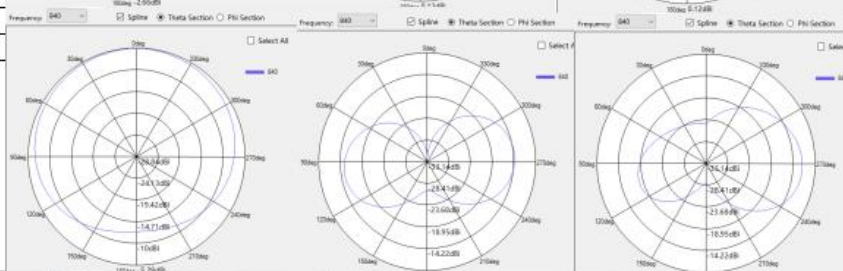
| 频段 | 增益dbi |
|----|-------|
| W2 | -0.05 |



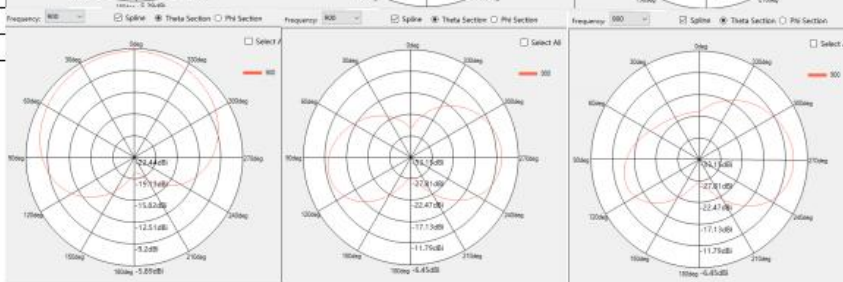
| 频段 | 增益dbi |
|----|-------|
| W4 | -2.97 |



| 频段 | 增益dbi |
|----|-------|
| W5 | -4.96 |

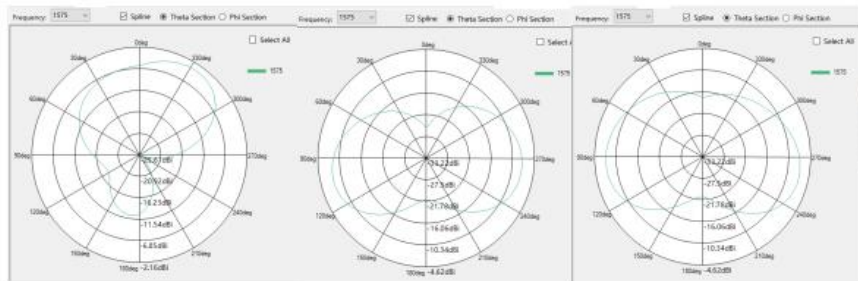


| 频段 | 增益dbi |
|----|-------|
| W8 | -4.74 |



## ANT2

| 频段  | 增益dbi |
|-----|-------|
| GPS | -1.54 |



ANT3

| 频段        | 增益dbi |
|-----------|-------|
| Wifi 2.4G | -0.92 |

