

**Manufacture:** Speed Wireless Technical Co., LTD.

**Factory:** Add: No.99, Weixin Road SIP Suzhou JiangSu Province China

**Model:**

Main:F-2A-KQ-0063-000-Y0

DIV: F-2A-KQ-0064-000-Y0

BT/WIFI/GPS:F-2A-KQ-0065-000-Y0

## Feature

- ※ High gain
- ※ Omani-directional
- ※ Wide bandwidth

Main Antenna

## Application

※GSM850/900/DCS/PCS/WCDMA B1/B2/B4/B5/B8  
LTE B1/B2/B3/B4/B5/B7/B8/B20/B28/B38/B40/B41

| TYPE                  |  |
|-----------------------|--|
| Transmitter Frequency | GSM 850/WCDMA B5/LTE B5: 824 - 849 MHz   |
|                       | GSM 900/WCDMA B8/LTE B8: 880 - 915 MHz   |
|                       | DCS /WCDMA B4/LTE B3/B4: 1710 - 1785 MHz |
|                       | PCS/WCDMA B2/LTE B2 :1850-1910MHz        |
|                       | WCDMA B1/LTE B1: 1920 - 1980MHz          |
|                       | LTE B7:2496-2565MHz                      |
|                       | LTE B20:832-862MHz                       |
|                       | LTE B28:710-755MHz                       |
|                       | LTE B40:2300-2400MHz                     |
|                       | LTE B38:2580-2610MHz                     |
| LTE B41:2506-2680MHz  |  |
| Receiver Frequency    | GSM 850/WCDMA B5/LTE B5: 869 - 894 MHz   |
|                       | GSM 900/WCDMA B8/LTE B8: 925 - 960 MHz   |
|                       | DCS /LTE B3/: 1805 - 1880 MHz            |
|                       | PCS/WCDMA B2/LTE B2 :1930-1990MHz        |
|                       | WCDMA B1/B4/LTE B1/B4: 2110 - 2170MHz    |
|                       | LTE B7:2620-2690MHz                      |

|                                  |   |
|----------------------------------|---|
|                                  | LTE B20:791-821MHz                                      |
|                                  | LTE B28:758-803MHz                                      |
|                                  | LTE B40:2300-2400MHz                                    |
|                                  | LTE B38:2580-2610MHz                                    |
|                                  | LTE B41:2506-2680MHz                                    |
| RF-Output Power<br>(E.I.R.P)     | GSM850/900: 32+/-2dBm                                   |
|                                  | DCS/PCS: 30+/-2dBm                                      |
|                                  | LTE B1/B2/B3/B4/B5/B7/B8/B20/B28/B38/B40/B41: 23+/-2dBm |
|                                  | WCDMA B1/B2/B4/B5/ B8: 23+/-2dBm                        |
| Main Antenna Gain<br>(Peak Gain) | GSM 850/WCDMA B5/LTE B5/B20: -4.1                       |
|                                  | GSM 900/WCDMA B8/LTE B8: -3.9                           |
|                                  | DCS/ /LTE B3: -0.8                                      |
|                                  | WCDMA B4/LTE B4: -0.8                                   |
|                                  | PCS1900/WCDMA B1/B2/LTE B1/2: -0.1                      |
|                                  | LTE B7: -0.8  |
|                                  | LTE B40: -0.9   |
|                                  | LTE B38/B41: -0.8                                       |
|                                  | LTE B28:-4.3  |
| 3in1 Antenna Gain<br>(Peak Gain) | GPS: 0.7  |
|                                  | WIFI 2.4G: 0.8 5G: -0.4                                 |
| Type of Modulation               |   |

※ Antenna Gain

communication applications

GSM、WCDMA、LTE、WIFI&BT、GPS antenna gain:

GSM 850 average: -4.1dBi;

EGSM 900 average:-3.9dBi;

DCS1800 average: :-0.8dBi;

PCS1900 average:- 0.1dBi

WCDMA850 average: -4.1dBi

WCDMA900 average: -3.9dBi

WCDMA1700 average: -0.8dBi

WCDMA1900 average: -0.1dBi

WCDMA2100 average: -0.1dBi

LTE FDD B1 average: -0.1dBi;

LTE FDD B2 average: -0.1dBi;

LTE FDD B3 average: -0.8dBi;

LTE FDD B4 average: -0.8dBi

LTE FDD B5 average: -4.1dBi;

LTE FDD B7 average: -0.8dBi;

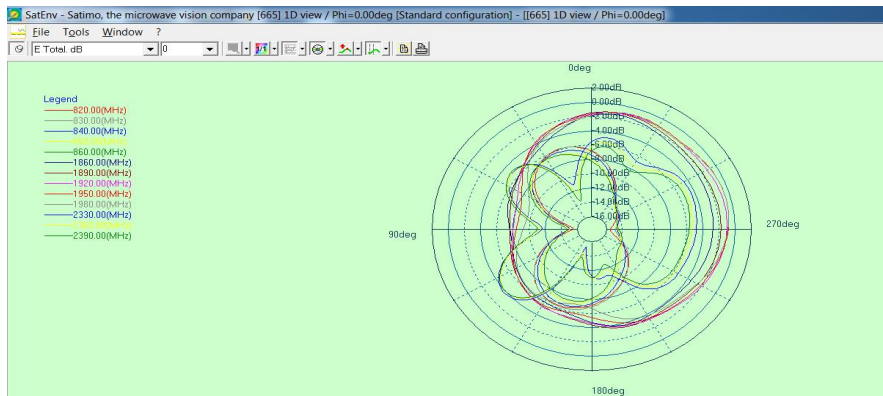
LTE FDD B8 average: -3.9dBi;

LTE FDD B20 average:-4.1dBi;

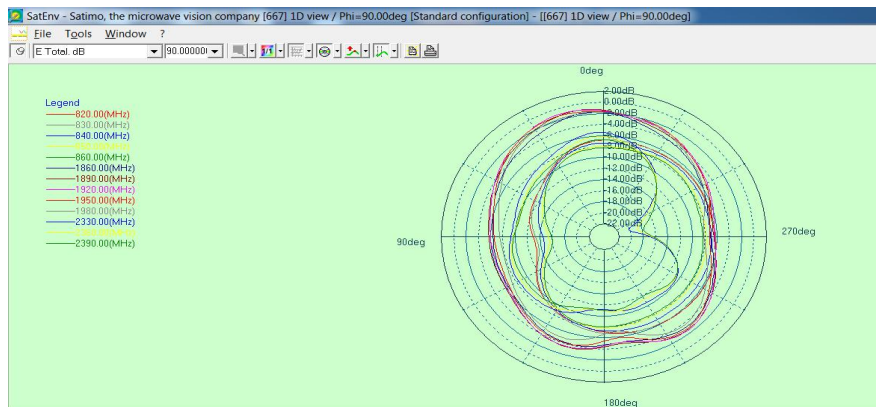
LTE FDD B28 average:-4.7dBi;

LTE FDD B38 average: -0.8dBi  
LTE FDD B40 average: -0.9dBi  
LTE FDD B41 average: -0.8dBi  
Bluetooth/2.4GWi-Fi average: 0.8dBi  
5GWi-Fi average: -0.4dBi  
GPS average: 0.7dBi

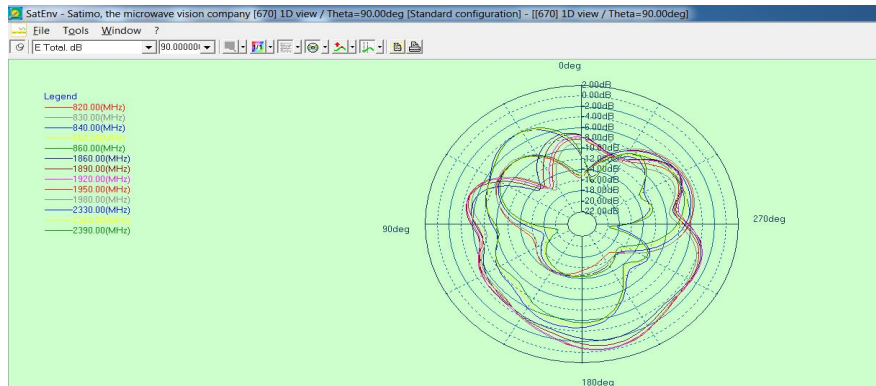
※ Antenna Gain  
Main Antenna



GSM850/PCS1900/WCDMA B1/B2/B5/LTE B1/B2/B5/B20 Phi=0deg



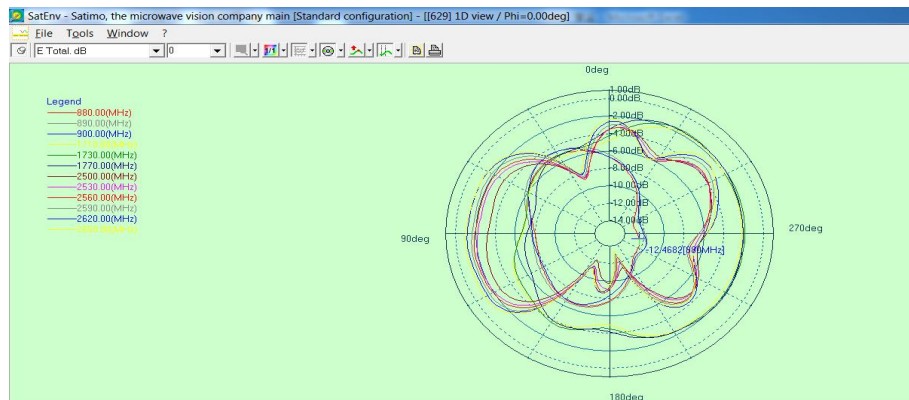
GSM850/PCS1900/WCDMA B1/B2/B5/LTE B1/B2/B5/B20 Phi=90deg



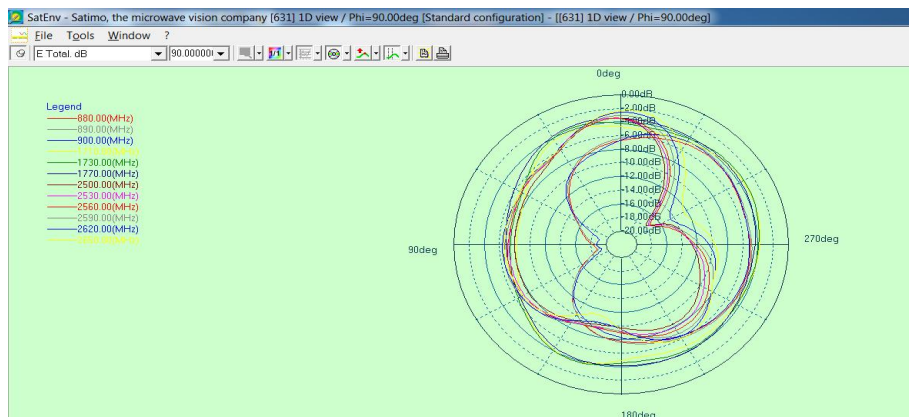
GSM850/PCS1900/WCDMA B1/B2/B5/LTE B1/B2/B5/B20 Theta=90deg

※ Antenna Gain

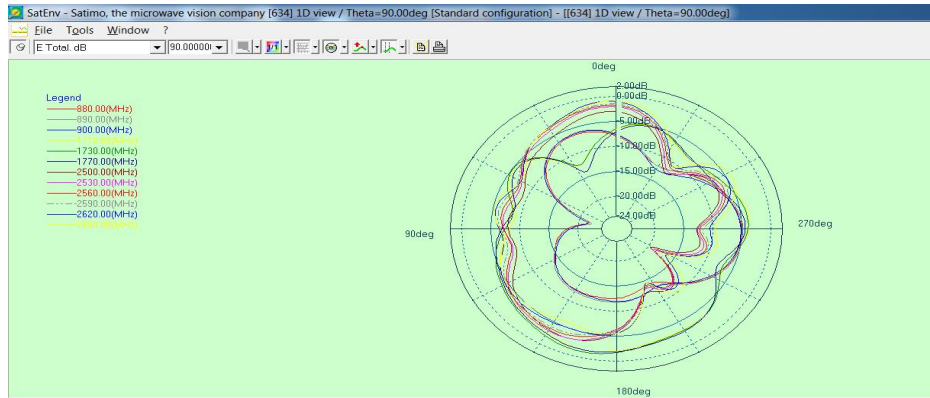
Main Antenna



GSM900 / DCS1800/ WCDMA B4/B8 / LTE B3/B4/B8 Phi=0deg

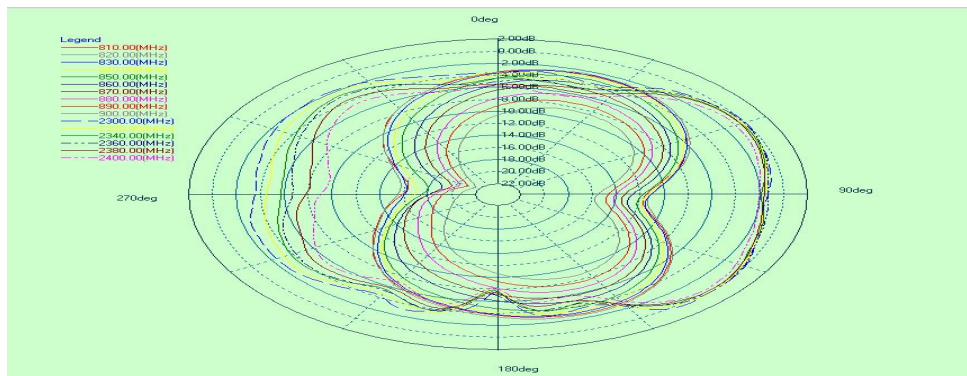


GSM900 / DCS1800/ WCDMA B4/B8 / LTE B3/B4/B8 Phi=90deg

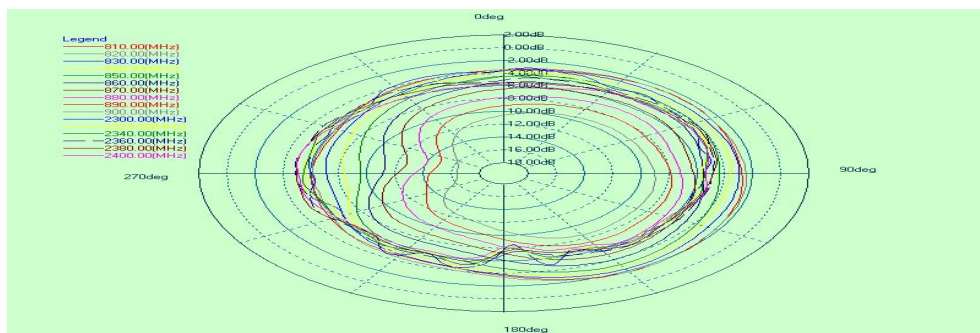


GSM900 / DCS1800/ WCDMA B4/B8 / LTE B3/B4/B8 Theta=90deg

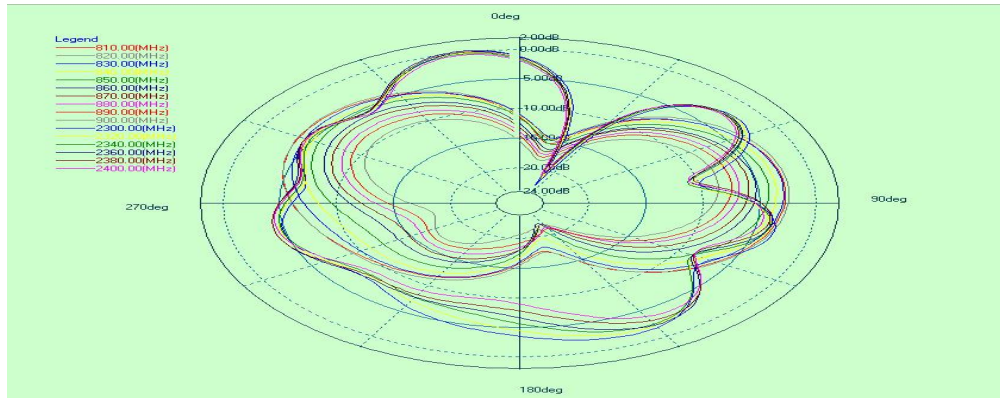
✂ Antenna Gain  
Main Antenna



LTE B40 Phi=0deg



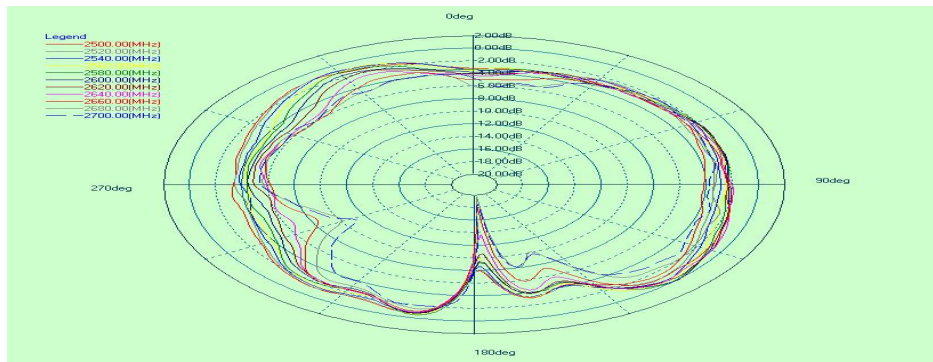
LTE B40 Phi=90deg



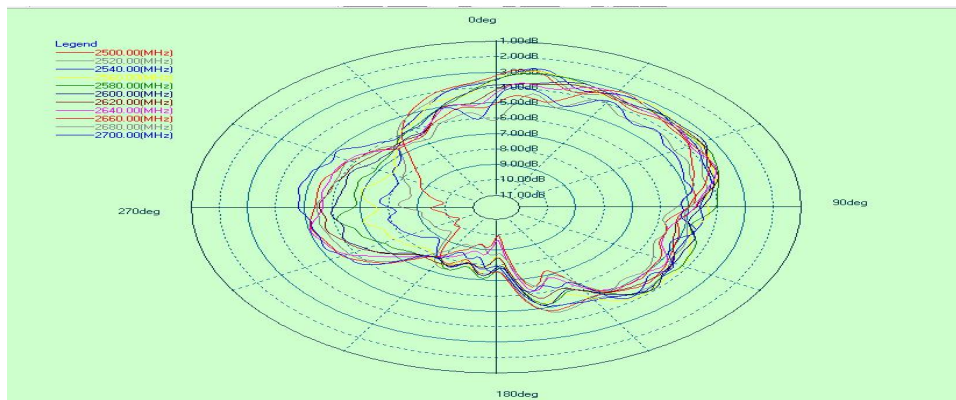
LTE B40 Theta=90deg

※ Antenna Gain

Main Antenna

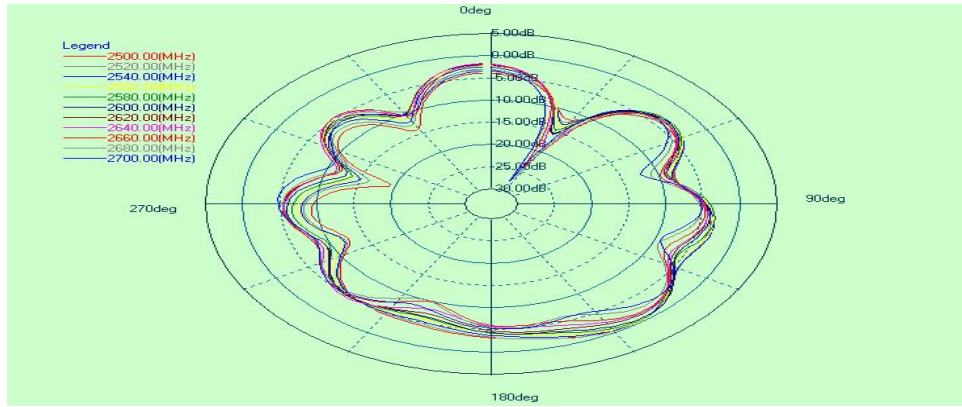


LTE B7/B38/41 Phi=0deg



LTE B7/B38/41 Phi=90deg

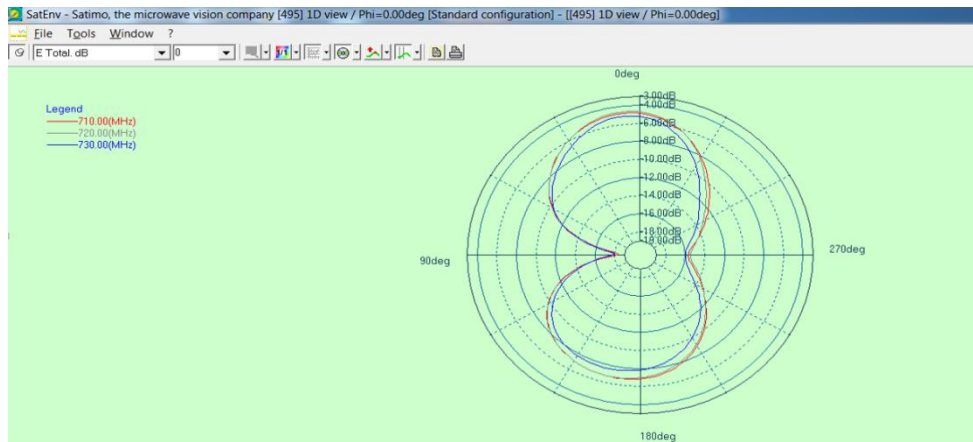




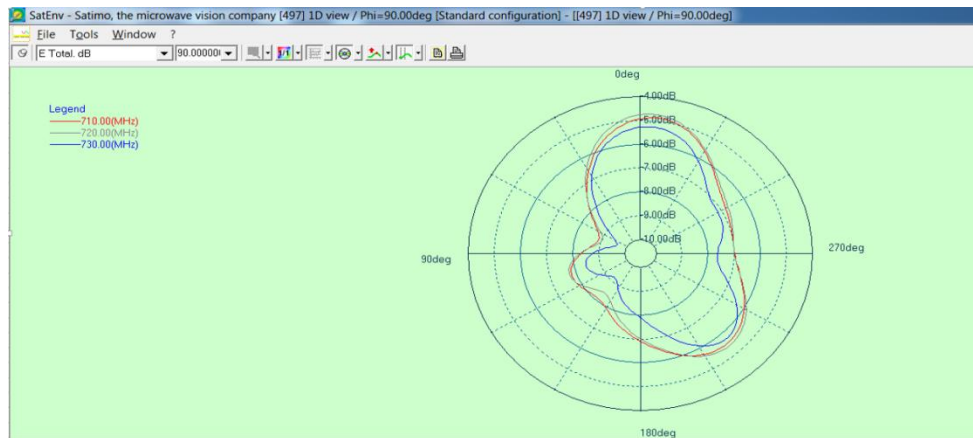
LTE B7/B38/41 Theta=90deg

※ Antenna Gain

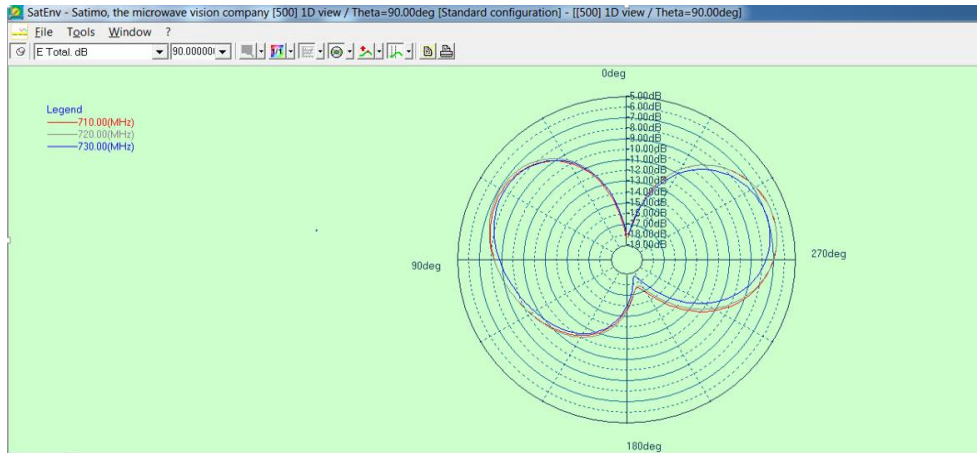
Main Antenna



LTE B28 Phi=0deg



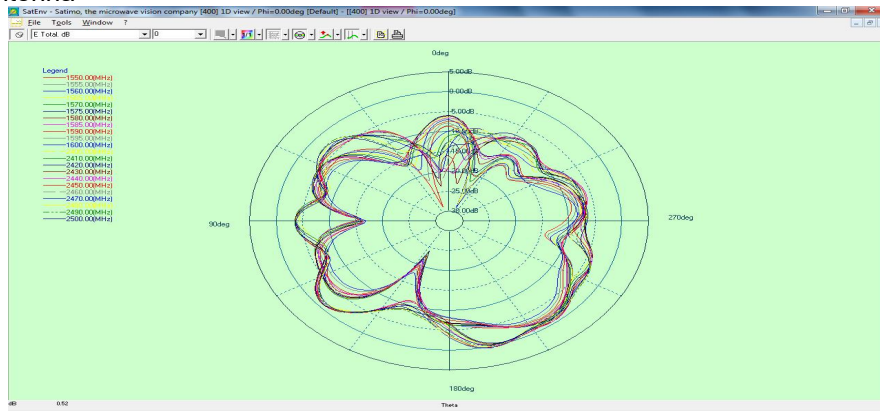
LTE B28 Phi=90deg



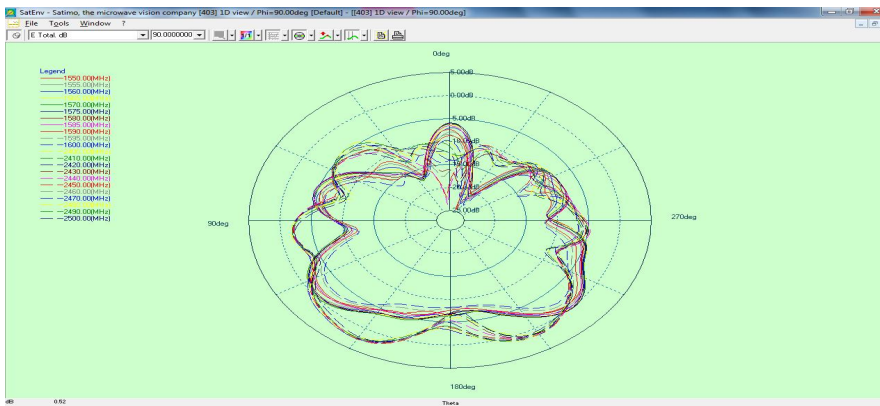
LTE B28 Theta=90deg

※ Antenna Gain

3in1 Antenna

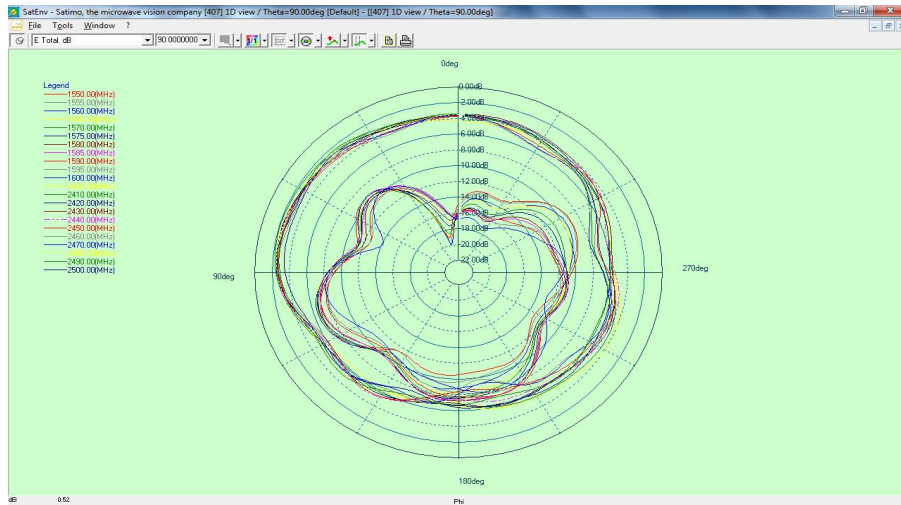


GPS&2.4G WIFI Phi=0deg



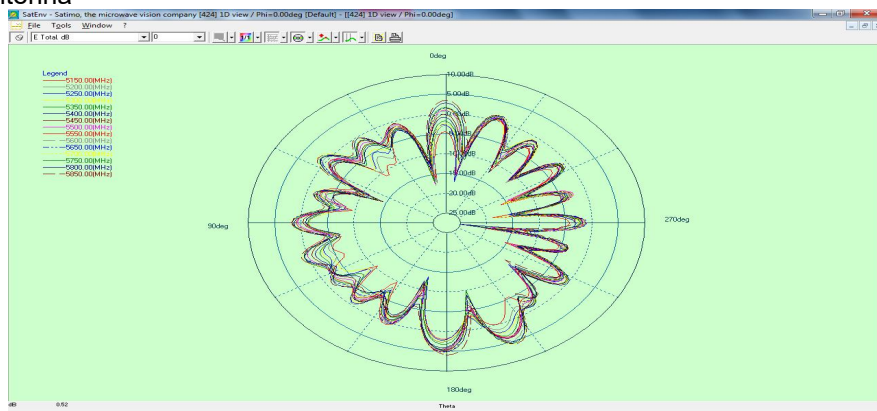
GPS&2.4G WIFI& Phi=90deg



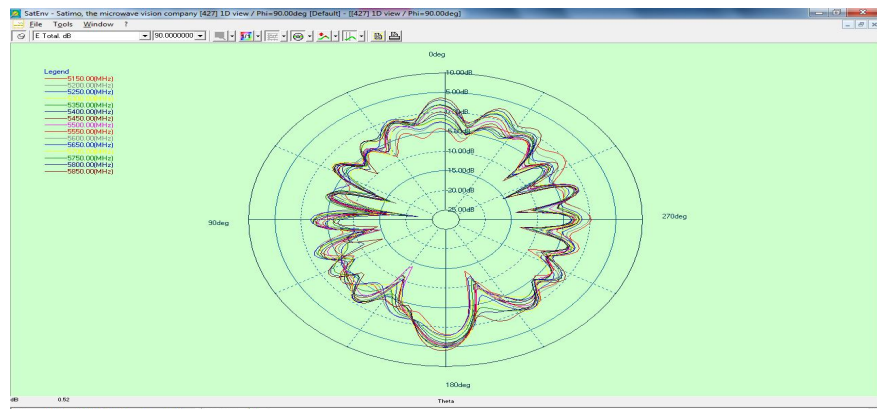


GPS&2.4G WIFI Theta=90deg

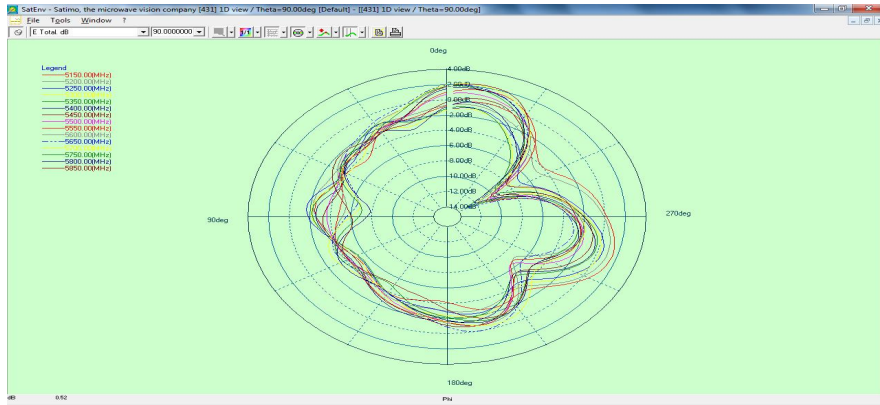
※ Antenna Gain  
3in1 Antenna



5G WIFI Phi=0deg



5G WIFI Phi=90deg



5G WIFI Theta=90deg

| PREPARED BY | CHECKEDBY | APPROVAL BY | S.R.NO |  |
|-------------|-----------|-------------|--------|--|
|             |           |             | DATE:  |  |