

Feature

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

Application

※ An1

GSM850/900/DCS1800/PCS1900

WCDMA B1/B2/B4/B5/B8

FDD B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B26/B28A/B28B

TDDB38/B40/B41/B66

communication applications

※Antenna manufacturer

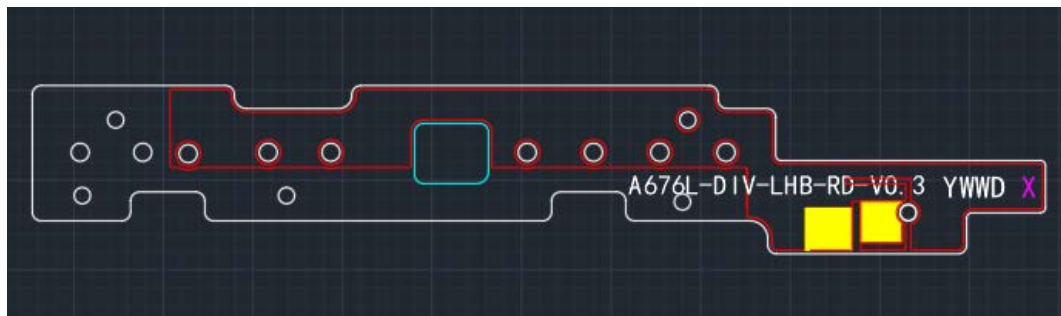
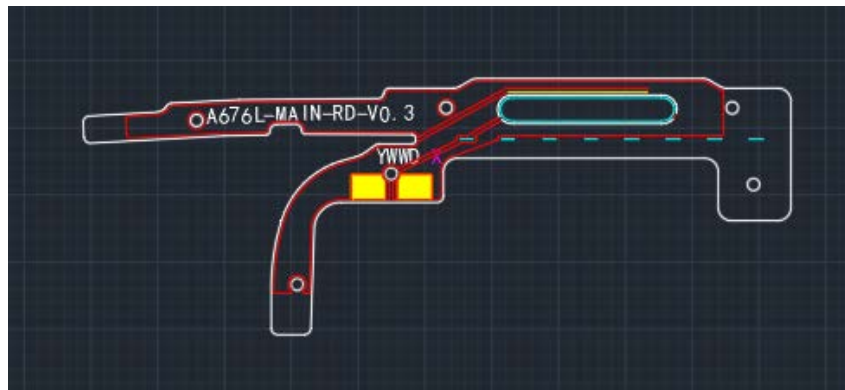
Name: Etheta Communication Technology (Shenzhen) CO.,Ltd

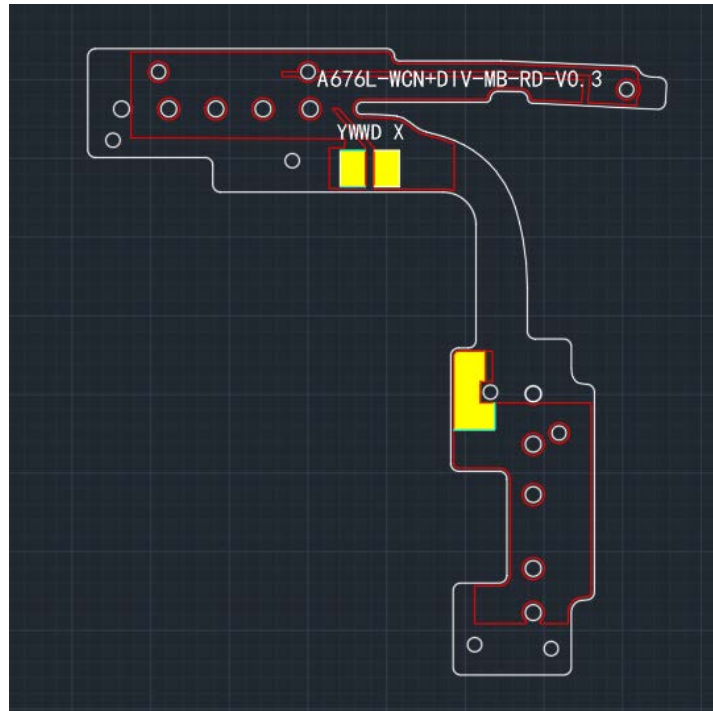
Factory ADD: No.401, Building 6, Zhangfeng Road, Oriental Community, Songgang Street, Bao'an District, Shenzhen

Headquarter ADD:Area B,Floor 3,Building 1,Baisha Technology Industrial Park,Shahe West Road,Nanshan District, Shenzhen

Shanghai Office:Room611, No.508, Chuanhong Road, ChuanshaNew Town, Pudong New Area, Shanghai

※Antenna type





Electric Specifications

TYPE	FPC
Transmitter Frequency	GSM850:824-849MHz (TX) GSM900:880-915MHz (TX) DCS1800:1710-1785MHz (TX) PCS1900:1850-1910MHz (TX) WCDMA B1:1920-1980MHz (TX) WCDMA B2:1850-1910MHz (TX) WCDMA B4:1710-1755MHz (TX) WCDMA B5:824-849MHz (TX) WCDMA B8:880-915MHz (TX) LTE B1:1920-1980MHz (TX) LTE B2:1850-1910MHz (TX) LTE B3:1710-1785MHz(TX) LTE B4:1710-1755MHz (TX) LTE B5:824-849MHz (TX) LTE B7:2500-2570MHz (TX) LTE B8:880-915MHz (TX) LTE B12:700-714MHz (TX) LTE B17:705-714MHz (TX) LTE B20:832-862MHz (TX) LTE B26:814-849MHz (TX) LTE B28A:708-728MHz (TX) LTE B28B:723-743MHz (TX) LTE B38:2570-2620MHz (TX) LTE B40:2300-2400MHz (TX) LTE B41:2535-2655MHz (TX) LTE B66:1710-1780MHz (TX) WIFI2.4G:2412-2472 MHz WIFI5G:5150-5850MHz Bluetooth:2408 - 2480 MHz GPS:1575.42MHz
Receiver Frequency	GSM850:869-894MHz (RX) GSM900:925-960MHz (RX) DCS1800:1805-1880MHz (RX) PCS1900:1930-1990MHz (RX) WCDMA B1:2110-2170MHz(RX) WCDMA B2:1930-1990MHz (RX) WCDMA B4:2110-2155MHz (RX) WCDMA B5:869-894MHz (RX) WCDMA B8:925-960MHz (RX) LTE B1:2110-2170MHz (RX) LTE B2:1930-1990MHz (RX) LTE B3:1805-1880MHz(RX) LTE B4:2110-2155MHz (RX) LTE B5:869-894MHz (RX) LTE B7:2620-2690MHz (RX) LTE B8:925-960MHz (RX)

	LTE B12:734-741MHz (RX) LTE B17:739-741MHz (RX) LTE B20:791-821MHz (RX) LTE B26:859-894MHz (RX) LTE B28A:763-783MHz (RX) LTE B28B:778-798MHz (RX) LTE B38:2570-2620MHz (RX) LTE B40:2300-2400MHz (RX) LTE B41:2535-2655MHz (RX) LTE B66:2110-2200MHz (RX) WIFI2.4G:2412 -2472 MHz WIFI5G:5150-5850MHz Bluetooth:2408 - 2480 MHz GPS:1575.42MHz
RF-Output Power (E.I.R.P)	GSM 850: 33+/-2dBm GSM 900: 33+/-2dBm DCS 1800: 30+/-2dBm PCS 1900: 30+/-2dBm WCDMA B1: 22.5+/-2dBm WCDMA B2: 22.5+/-2dBm WCDMA B4: 22.5+/-2dBm WCDMA B5: 22.5+/-2dBm WCDMA B8: 22.5+/-2dBm LTE B1: 22+/-2dBm LTE B2: 22+/-2dBm LTE B3: 22+/-2dBm LTE B4: 22+/-2dBm LTE B5: 22+/-2dBm LTE B7: 22+/-2dBm LTE B8: 22+/-2dBm LTE B12: 22+/-2dBm LTE B17: 22+/-2dBm LTE B20: 22+/-2dBm LTE B26:22+/-2dBm LTE B28A: 22+/-2dBm LTE B28B: 22+/-2dBm LTE B40: 22+/-2dBm LTE B38: 22+/-2dBm LTE B41: 22+/-2dBm LTE B66: 22+/-2dBm

Antenna Gain	GSM 850: -3.93dBi GSM 900: -3.63dBi DCS 1800: -2.08dBi PCS 1900: -1.05dBi WCDMA B1: -1.87dBi WCDMA B2: -1.05dBi WCDMA B4: -2.36dBi WCDMA B5: -3.93dBi WCDMA B8: -3.63dBi LTE B1: -1.87dBi LTE B2: -1.05dBi LTE B3: -0.08dBi LTE B4: -2.36dBi LTE B5: -3.93dBi LTE B7: -1.09dBi LTE B8: -3.63dBi LTE B12: -4.78dBi LTE B17: -4.78dBi LTE B20: -5.2dBi LTE B26:-3.93dBi LTE B28A: -4.78dBi LTE B28B: -4.78dBi LTE B40: -1.88dBi LTE B38: -0.95dBi LTE B41: -0.95dBi LTE B66:-2.08dBi WIFI2.4G:-0.58dBi WIFI5G:2.74dBi Bluetooth:-0.58dBi GPS:0.42dBi
Power of antenna:	GSM 850: 23.77dBm GSM 900: 25.4dBm DCS 1800: 27.27dBm PCS 1900: 25.64dBm WCDMA B1: 18.35dBm WCDMA B2: 19.35dBm WCDMA B4: 17.77dBm WCDMA B5: 15.42dBm WCDMA B8: 15.6dBm LTE B1: 18.1dBm LTE B2: 19.04dBm LTE B3: 19.67dBm LTE B4: 17.82dBm LTE B5: 15.3dBm LTE B7: 18.42dBm LTE B8: 15.79dBm LTE B12: 14.26dBm LTE B17: 14.32dBm LTE B20: 15.54dBm LTE B26:15.54dBm LTE B28A: 14.55dBm LTE B28B: 14.66dBm LTE B40: 16.09dBm LTE B38: 18.37dBm

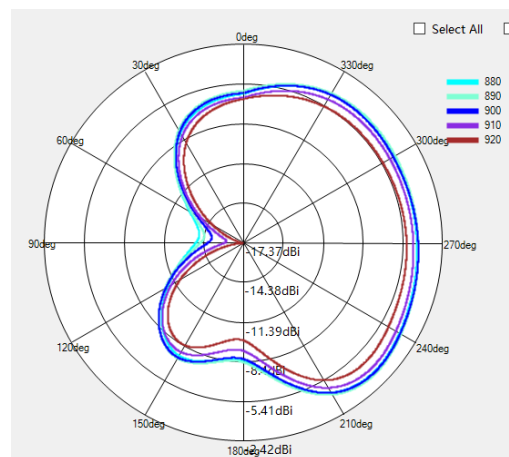
	LTE B41: 17.31dBm LTE B66:18.43dBm WIFI2.4G:14.1dBm WIFI5G:10.3dBm Bluetooth:3.6dBm
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Type of Modulation	GMSK/8PSK/QPSK/16QAM/64QAM/GFSK, $\pi/4$ -DQPSK,8DPSK
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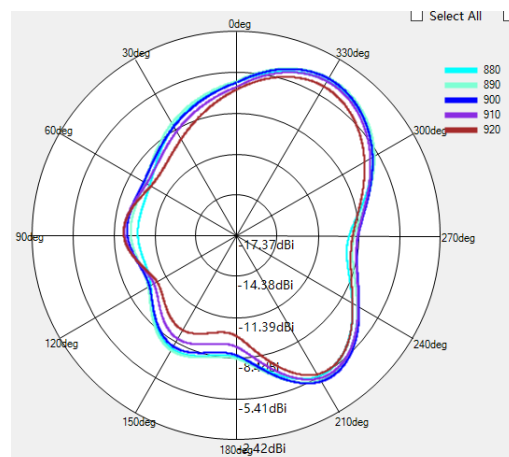
※ Antenna Gain

Main Antenna

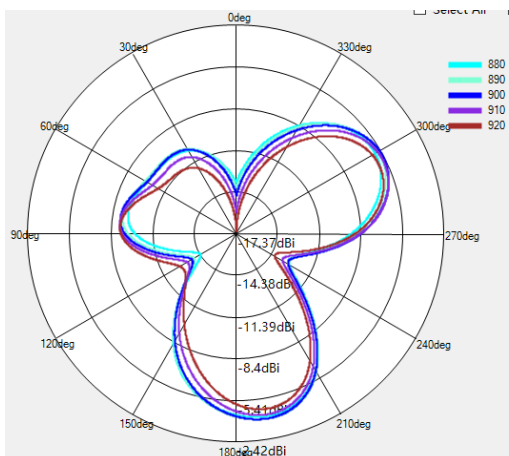
G900 W8 B8



GSM900/ WCDMA B8 / LTE BB8 $\Phi=0^\circ$

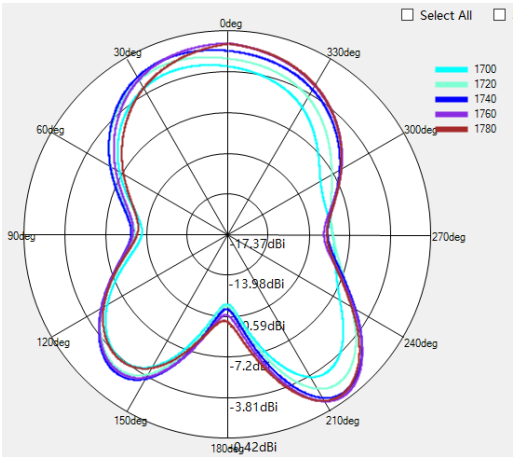


GSM900/ WCDMA B8 / LTE BB8 $\Phi=90^\circ$

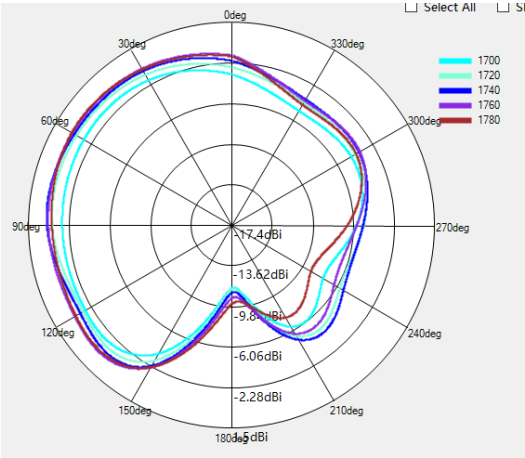


GSM900/ WCDMA B8 / LTE BB8 $\Theta=90^\circ$

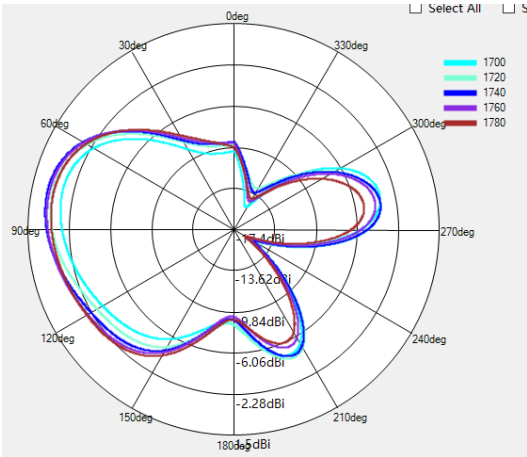
GSM1800 B3



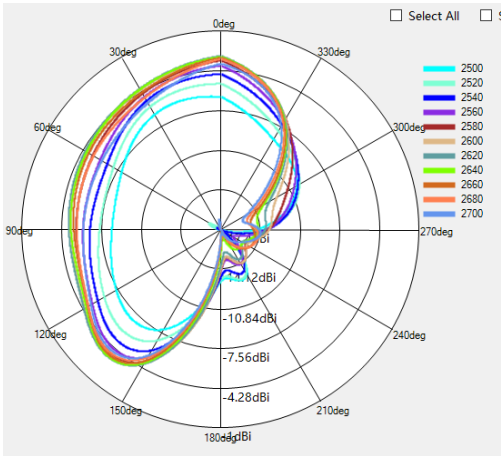
GSM1800 LTE B3 $\Phi = 0^\circ$



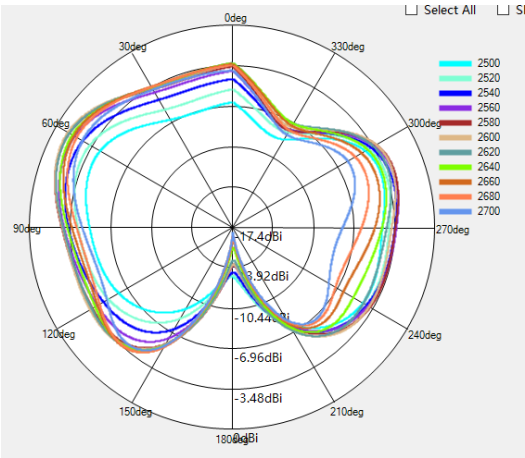
GSM1800 LTE B3 $\Phi = 90^\circ$



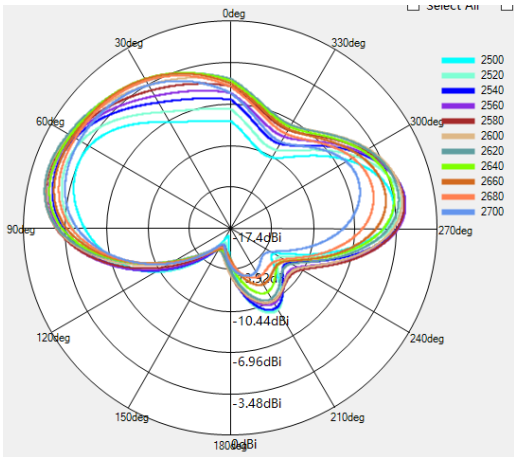
GSM1800 LTE B3 $\Theta = 90^\circ$



LTE B7/B38/B41 $\Phi=0^\circ$

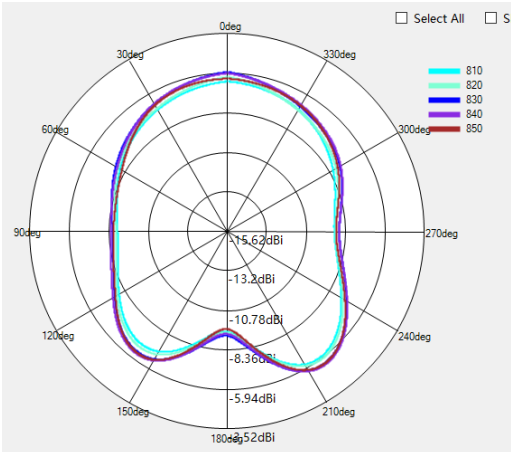


LTE B7/B38/B41 $\Phi=90^\circ$

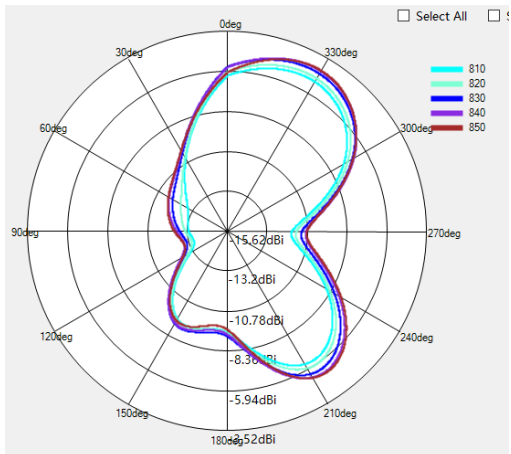


LTE B7/B38/B41 $\Theta=90^\circ$

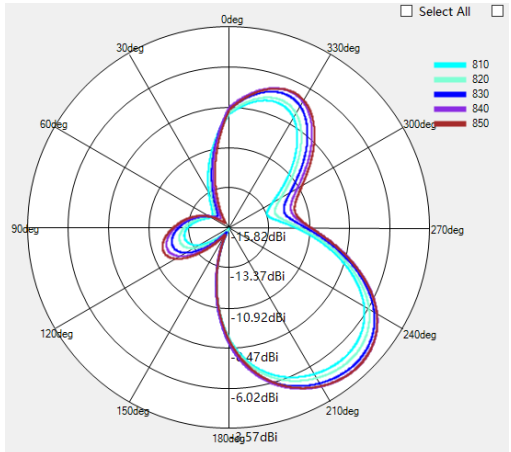
G850 W5 B5/B26



GSM850 / WCDMA B5 / LTE B5/B26 $\Phi=0^\circ$

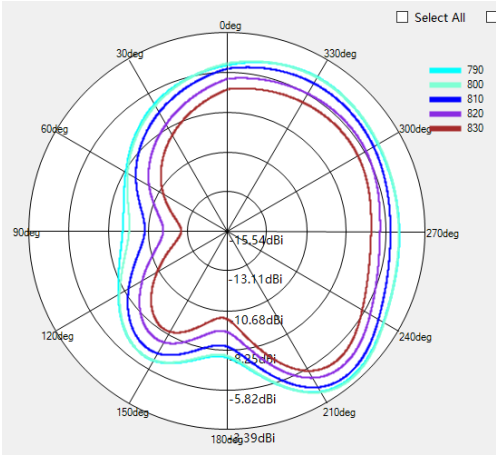


GSM850 / WCDMA B5 / LTE B5/B26 $\Phi=90^\circ$

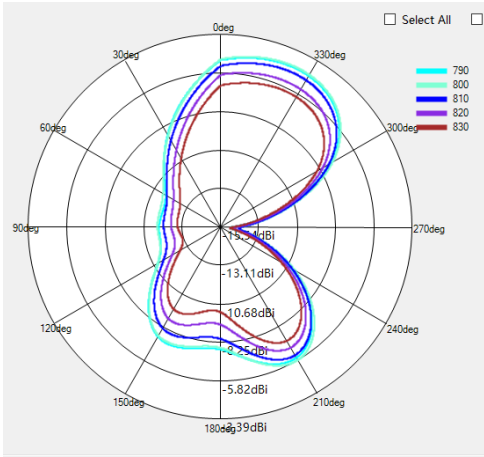


GSM850 / WCDMA B5 / LTE B5/B26 $\Theta=90^\circ$

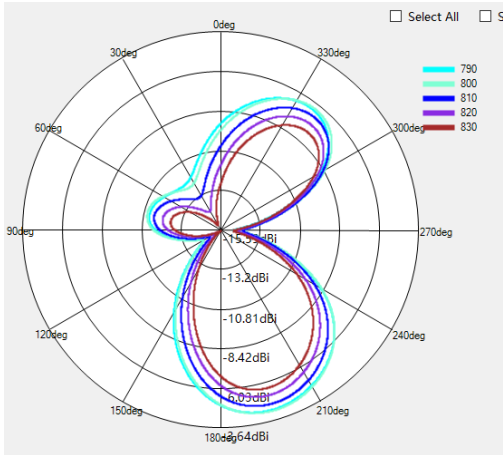
B20



B20 $\Phi=0^\circ$

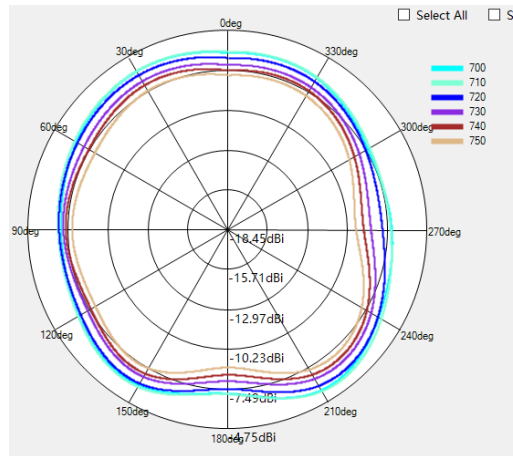


B20 $\Phi=90^\circ$

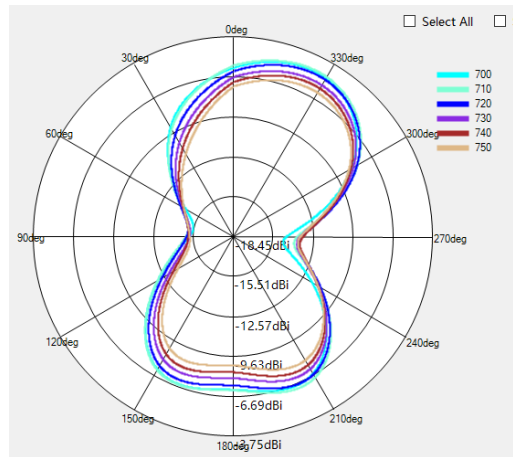


B20 $\Theta=90^\circ$

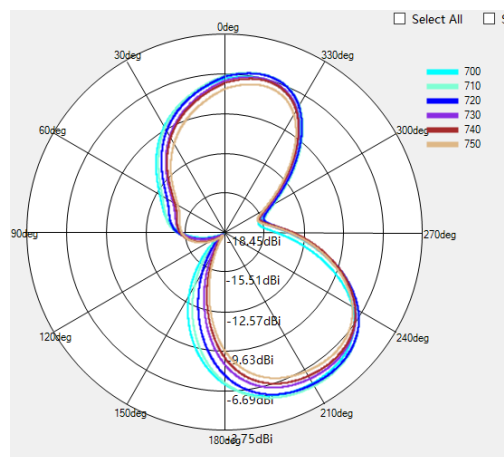
B12/17/28



LTE B12/17/28 $\Phi=0^\circ$

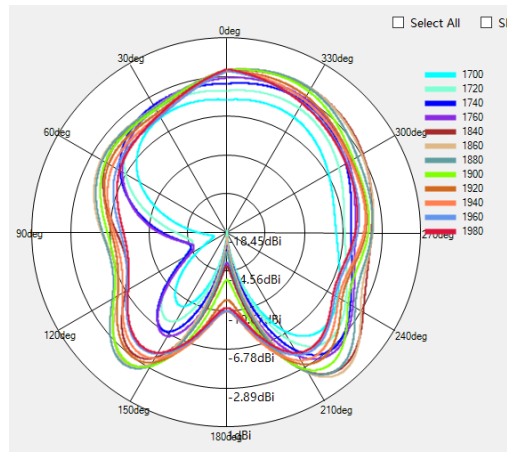


LTE B12/17/28 $\Phi=90^\circ$

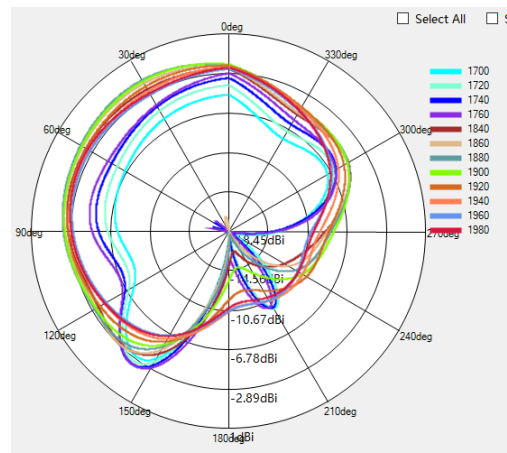


LTE B12/17/28 $\Theta=90^\circ$

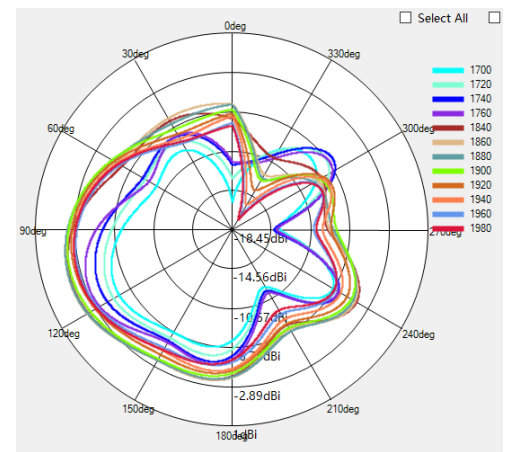
G1900 W1/2/4 LTE B1/2/4/B66



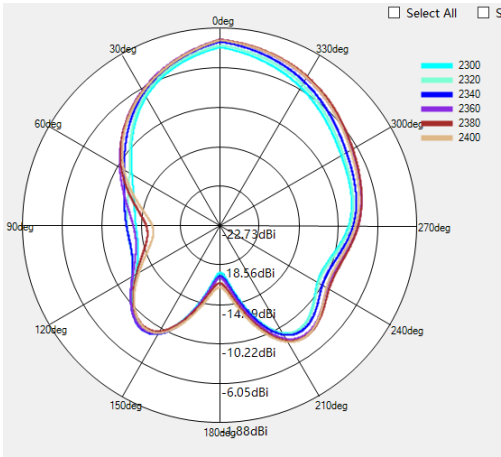
GSM1900 / WCDMA B1/B2/B4 / LTE B1/B2/B4/B66 Phi=0deg



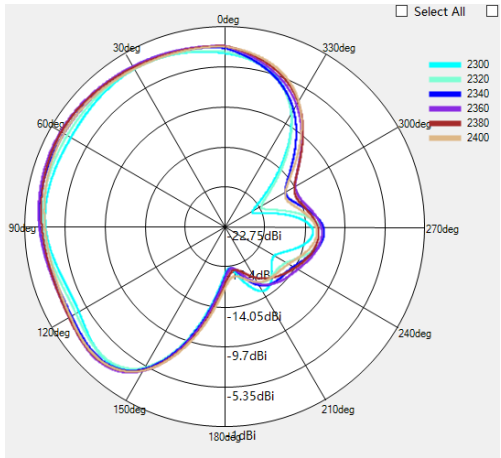
GSM1900 / WCDMA B1/B2/B4 / LTE B1/B2/B4/B66 Phi=90deg



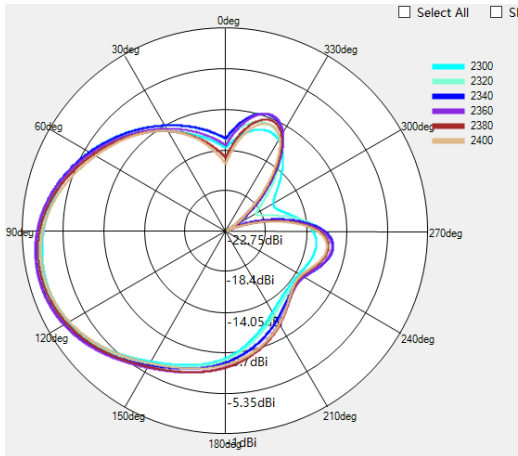
GSM1900 / WCDMA B1/B2/B4 / LTE B1/B2/B4/B66 Theta=90deg



LTE B40 $\Phi=0^\circ$



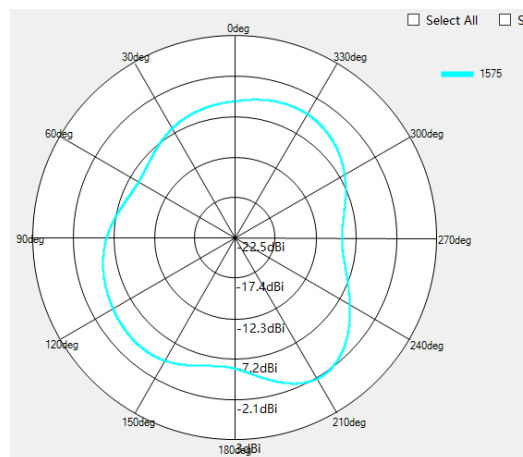
LTE B40 $\Phi=90^\circ$



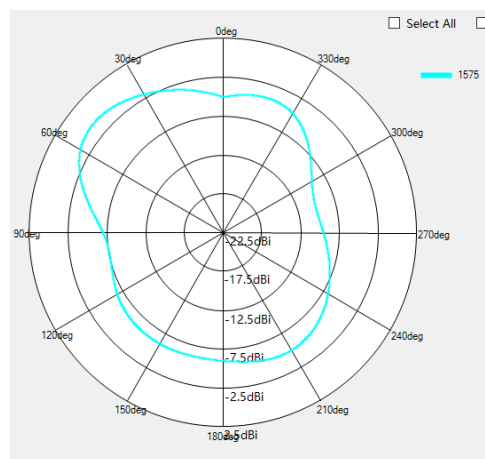
LTE B40 $\Theta=90^\circ$

Three-in-one antenna

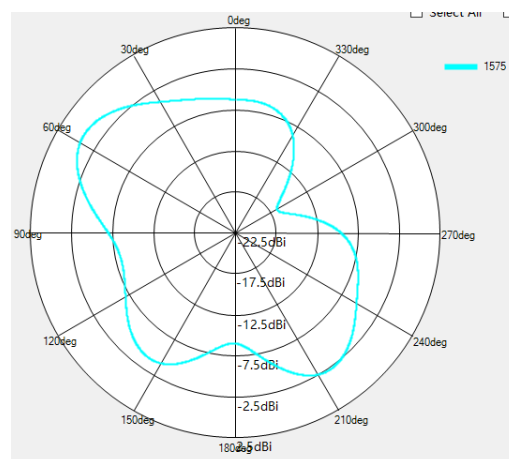
GPS



GPS $\Phi = 0^\circ$

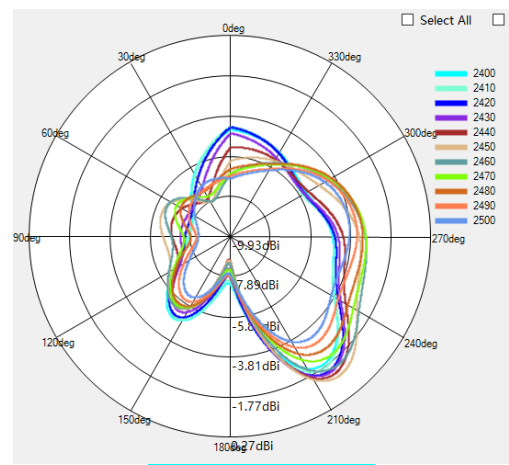


GPS $\Phi = 90^\circ$

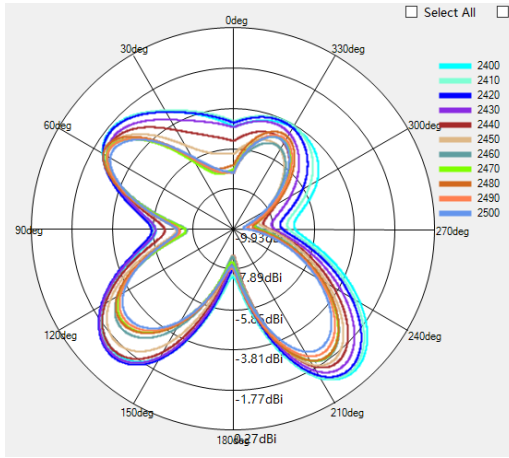


GPS $\Theta = 90^\circ$

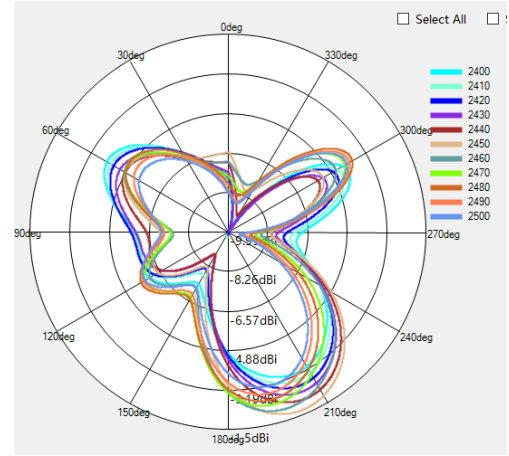
WIFI 2.4G/Bluetooth



2.4G WIFI $\Phi=0^\circ$

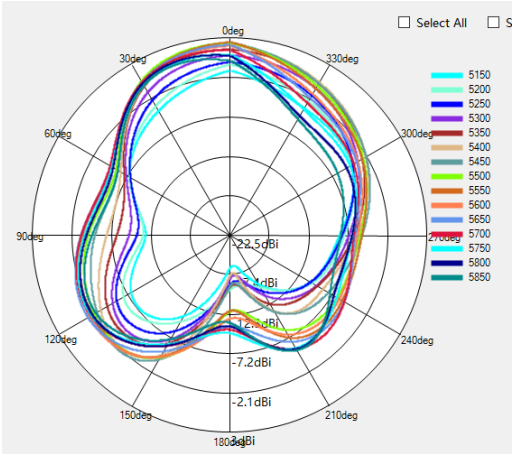


2.4G WIFI $\Phi=90^\circ$

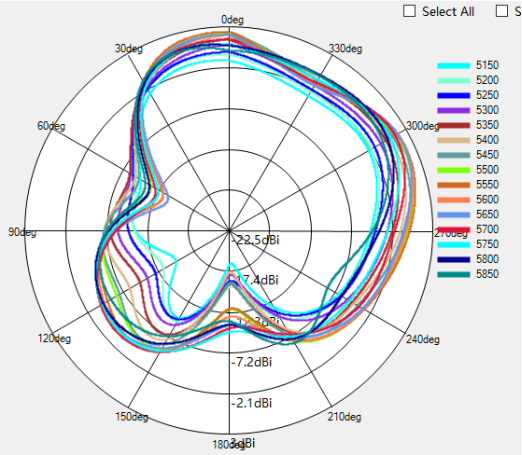


2.4G WIFI $\Theta=90^\circ$

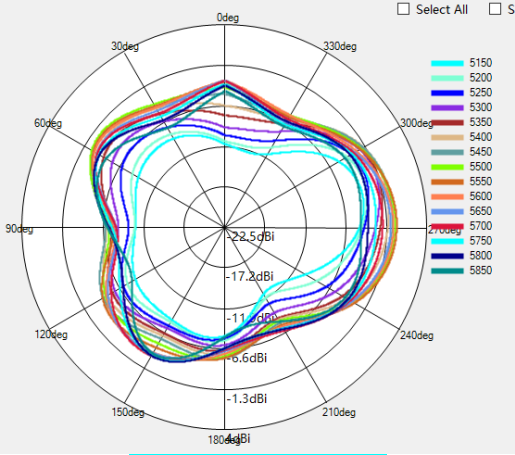
WIFI 5G



5G WIFI $\Phi = 0^\circ$



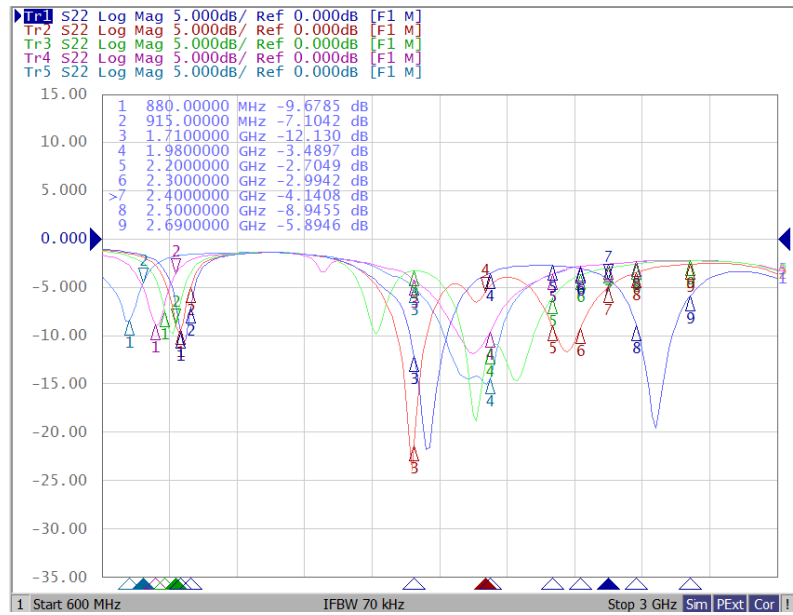
5G WIFI $\Phi = 90^\circ$



5G WIFI $\Theta = 90^\circ$

※S11:

Main Antenna



Three-in-one antenna

