

Feature

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

Application

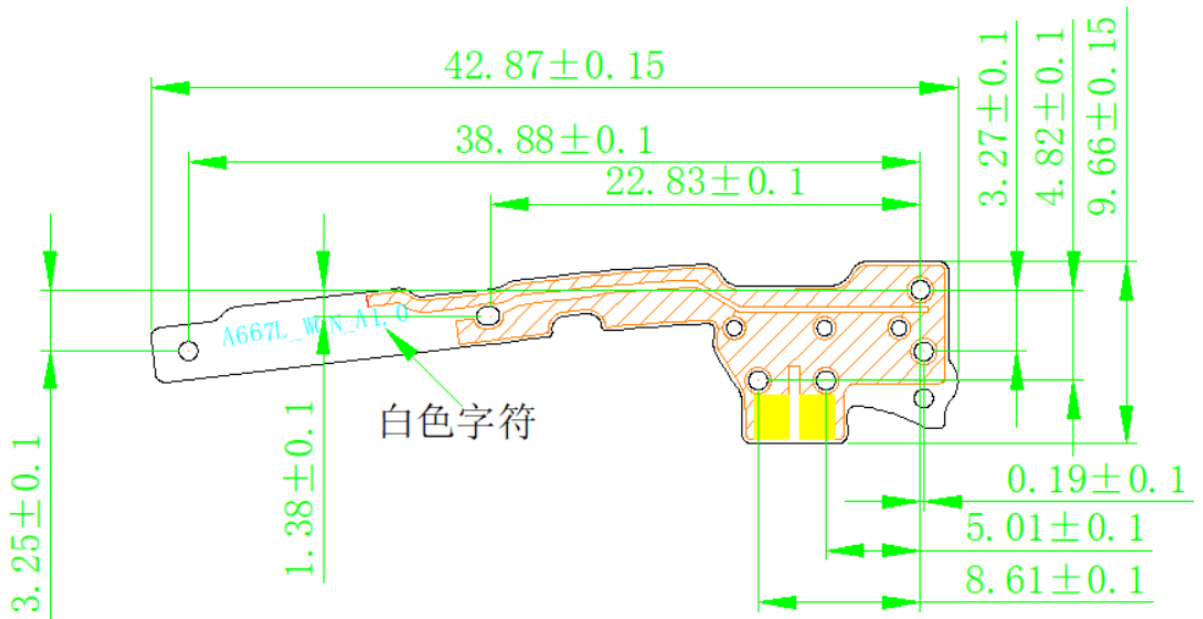
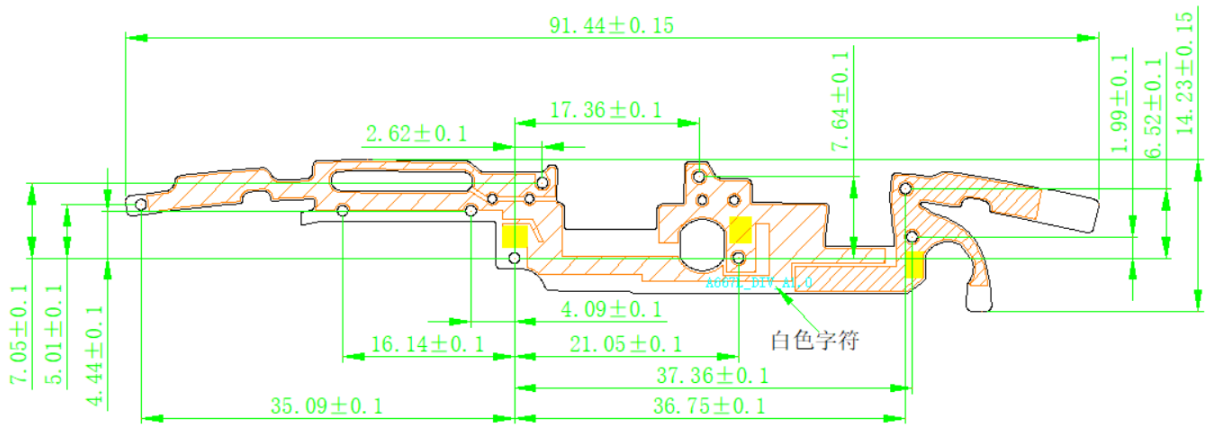
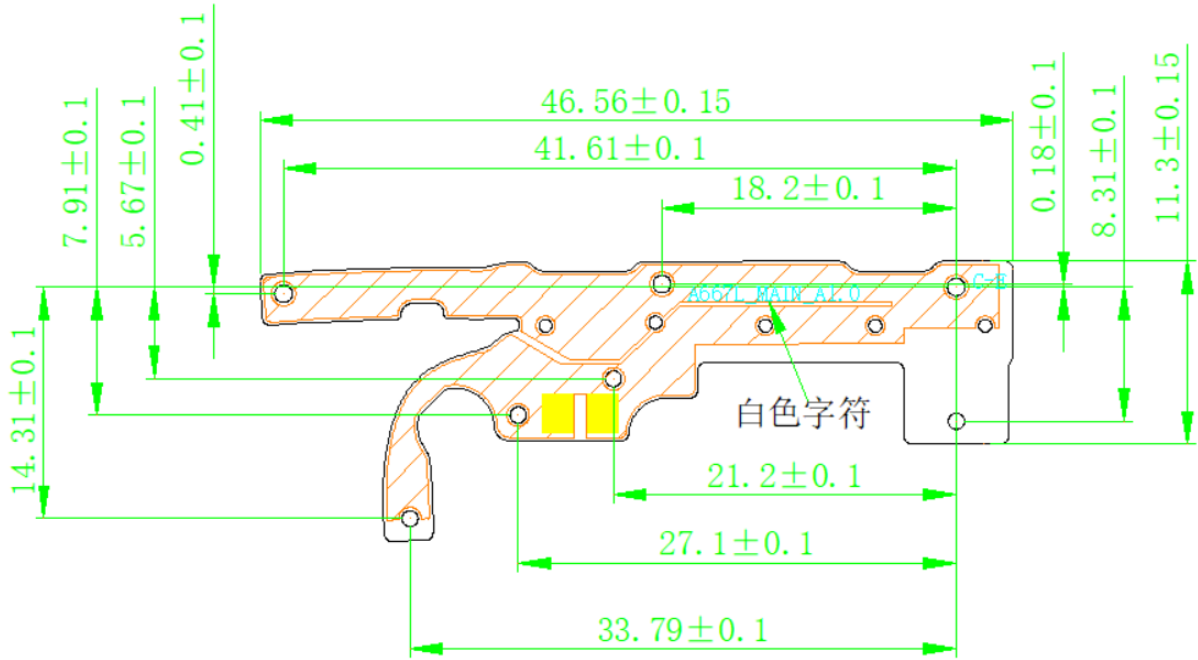
- ※ GSM 850/GSM900/DCS1800/PCS1900
WCDMA 2100/WCDMA900/WCDMA850/WCDMA1800/WCDMA1900
FDD B1/2/3/4/5/7/8/12/17/20/26/28AB/B66
TDD 38-40-41

communication applications

- ※Antenna manufacturer
Zhejiang Haitong communications electronic Limited
浙江海通通讯电子股份有限公司

Xi' an R&D Center: Room 101, building A11, 156 tiangu eighth road, software new city,
high-tech zone, xi 'an city

- ※Antenna type



Electric Specifications

TYPE	FPC
Transmitter Frequency	GSM850: 824~849MHz(TX) GSM900: 880-915MHz (TX) DCS1800: 1710-1785MHz (TX) PCS1900:1850-1910MHz (TX) WCDMAband I: 1920~1980MHz(TX) WCDMAband II :1850~1910MHz(TX) WCDMAband IV:1710~1755MHz(TX) WCDMAband V: 824~849MHz(TX) WCDMAband VIII: 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: 824~849MHzMHz(TX) LTE B7: 2500~2570MHz(TX) LTE B8: 880~915MHzMHz(TX) LTE B12: 699~716MHz(TX) LTE B17: 704~716MHz(TX) LTE B20: 832~862MHz(TX) LTE B26: 814~849MHz(TX) LTE B28AB: 703~748MHz(TX) LTE B38: 2570~2620MHz(TX) LTE B40: 2300~2400MHz(TX) LTE B41: 2535~2655MHz(TX) LTE B66: 1710~1780MHz(TX) WIFI:2412 -2472 MHz Bluetooth:2408 - 2480 MHz GPS:1575.42MHz

<p style="text-align: center;">er</p>	<p>GSM850: 869-894MHz (RX) GSM900: 925-960MHz (RX) DCS1800: 1805-1880MHz (RX) PCS1900:1930-1990MHz (RX) WCDMAband I:2110~2170MHz(RX) WCDMAband II :1930~1990MHz(RX) WCDMAband IV:2110~2155MHz(RX) WCDMAband V: 869~894MHz(RX) WCDMAband VIII: 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: 869~894MHzMHz(RX) LTE B7: 2620~2690MHz(RX) LTE B8: 925~960MHzMHz(RX) LTE B12: 729~746MHz(RX) LTE B17: 734~746MHz(RX) LTE B20: 791~821MHz(RX) LTE B26: 859~894MHz(RX) LTE B28AB: 758~803MHz(RX) LTE B38: 2570~2620MHz(RX) LTE B40: 2300~2400MHz(RX) LTE B41: 2565~2645MHz(RX) LTE B66: 2110~2200MHz(RX)</p>
<p style="text-align: center;">RF-Output Power (E.I.R.P)</p>	<p style="text-align: center;">GSM850: 33+/-2dBm GSM900: 33+/-2dBm DCS1800:30+/-2dBm PCS1900:30+/-2dBm</p> <p style="text-align: center;">WCDMA 850: 22.5+/-2dBm WCDMA 900: 22.5+/-2dBm WCDMA 1800: 22.5+/-2dBm WCDMA 1900: 22.5+/-2dBm WCDMA 2100: 22.5+/-2dBm</p> <p style="text-align: center;">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 B28AB:22+/-2dBm</p>

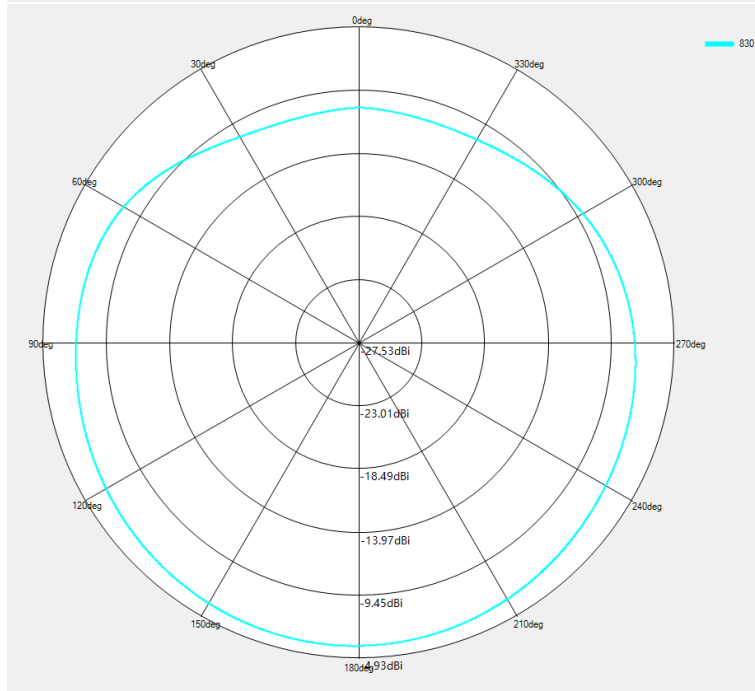
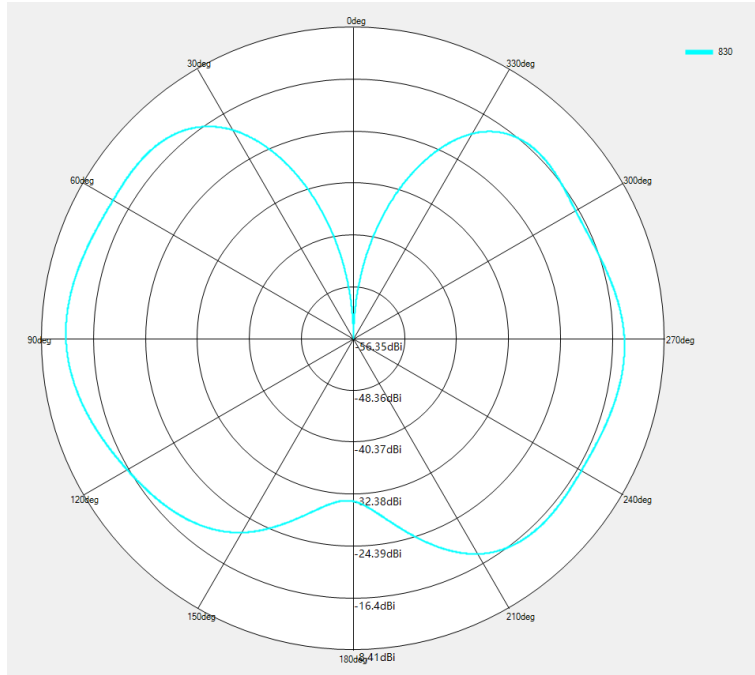
	<p>LTE B38:22+/-2dBm LTE B40:22+/-2dBm LTE B41:22+/-2dBm LTE B66:22+/-2dBm</p>
<p>Antenna Gain</p>	<p>GSM850: -2.45dBi GSM900: -1.89 dBi DCS1800: 1.62dBi DCS1900: 1.54dBi WCDMA 850: -2.45dBi WCDMA 900: -1.89 dBi WCDMA 1800: 1.62 dBi WCDMA1900: 1.54 dBi WCDMA 2100: 1.56 dBi LTE B1: 1.56dBi LTE B2: 1.54dBi LTE B3: 1.62 dBi LTE B4: 1.62dBi LTE B5: -2.45 dBi LTE B7: 1.32dBi LTE B8: -1.89dBi LTE B12: -2.58dBi LTE B17: -2.58dBi LTE B20: -2.37dBi LTE B26: -2.45dBi LTE B28AB: -2.58dBi LTE B38: 0.52dBi LTE B40: 1.33 dBi LTE B41: 0.32 dBi LTE B66: 1.62dBi WIFI: 0.32 dBi GPS: 0.48 dBi</p>
<p>Power of antenna:</p>	<p>GSM850: 25.2dBm GSM900: 25.4dBm DCS1800: 24.7dBm PCS1900: 24.9dBm WCDMA 850: 15.5dBm WCDMA 900:15.7dBm WCDMA 1800: 16.7dBm WCDMA 1900: 18.1dBm WCDMA 2100: 17.2dBm LTE B1: 17.4dBm LTE B2: 18.1dBm LTE B3: 17.6dBm LTE B4: 17.2 dBm LTE B5: 15.3dBm LTE B7: 18.3dBm LTE B8: 15.7dBm LTE B12: 14.1dBm LTE B17: 14.2dBm LTE B20: 15.1dBm</p>

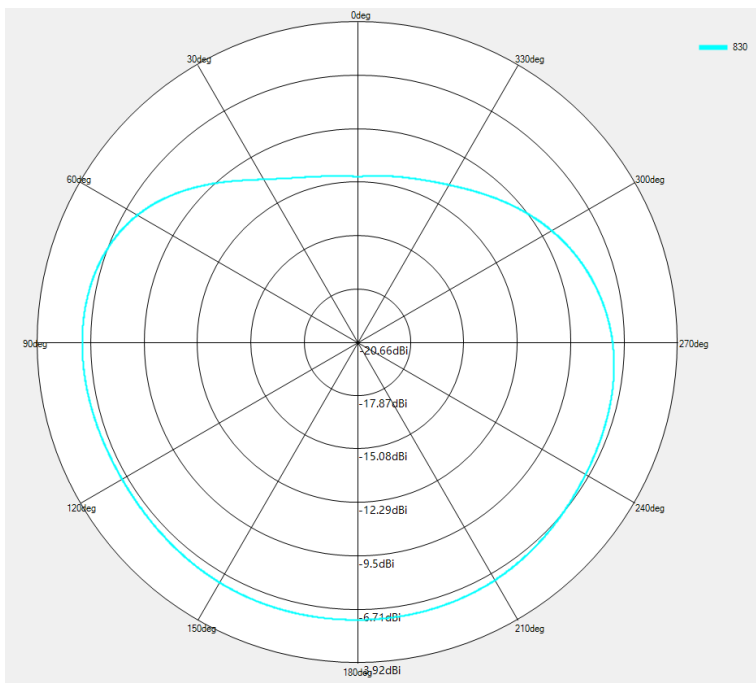
	LTE B26: 15.3dBm LTE B28AB: 15 dBm LTE B38: 18.5dBm LTE B40: 17.2dBm LTE B41: 18.5dBm LTE B66: 17.6dBm WIFI-11n: 11.4dBm GPS: -152.5 BT: 3.5dBm
Type of Modulation	GMSK/8PSK/QPSK/16QAM/64QAM/GFSK, $\pi/4$ -DQPSK,8DPSK

※ Antenna Gain

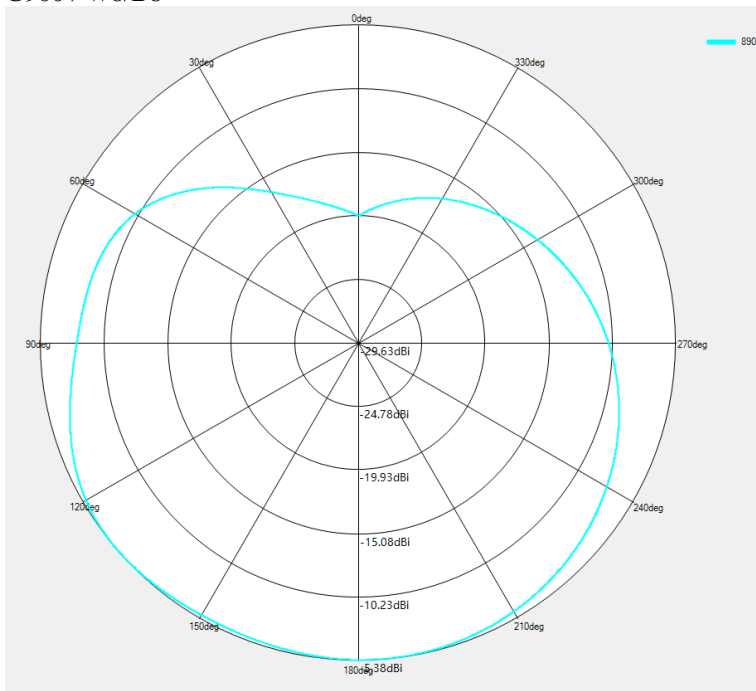
Main Antenna

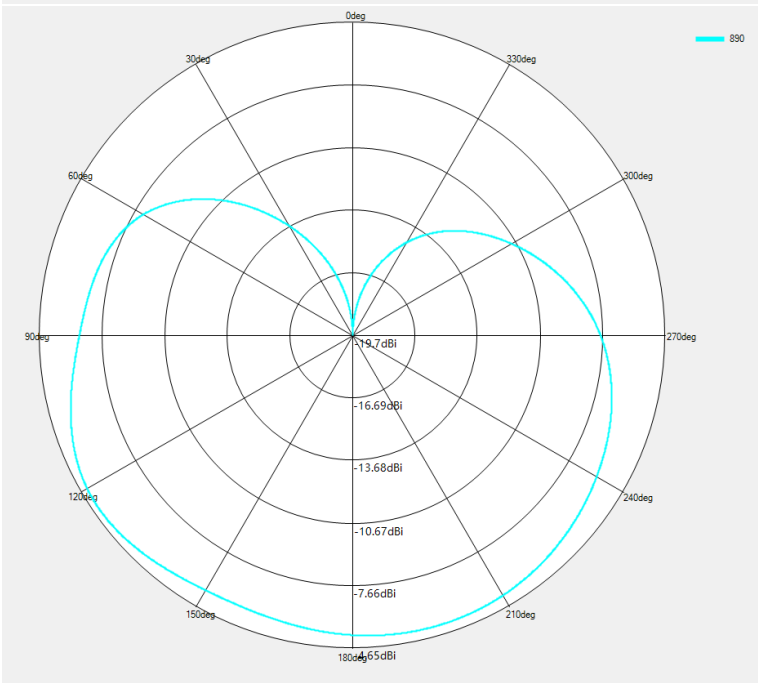
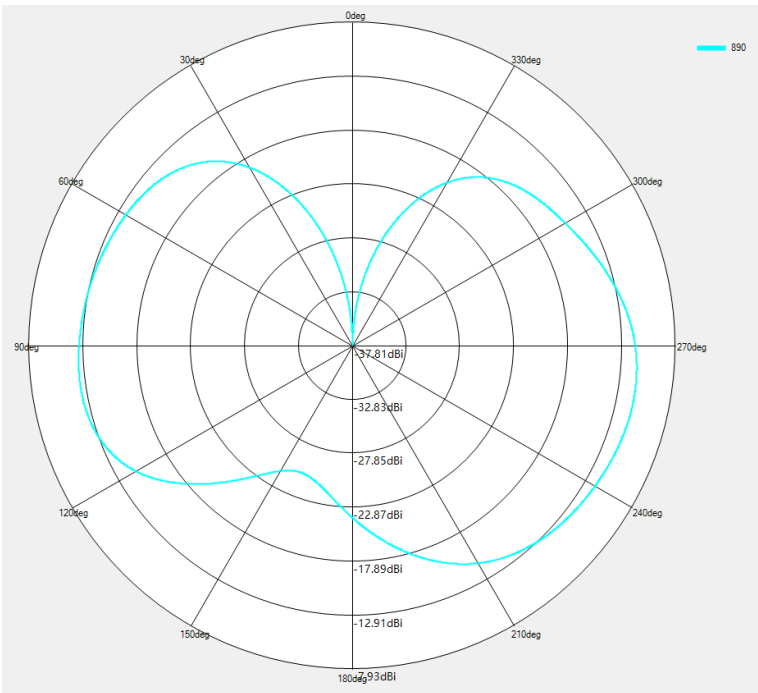
G850 W5 /B5/20/26



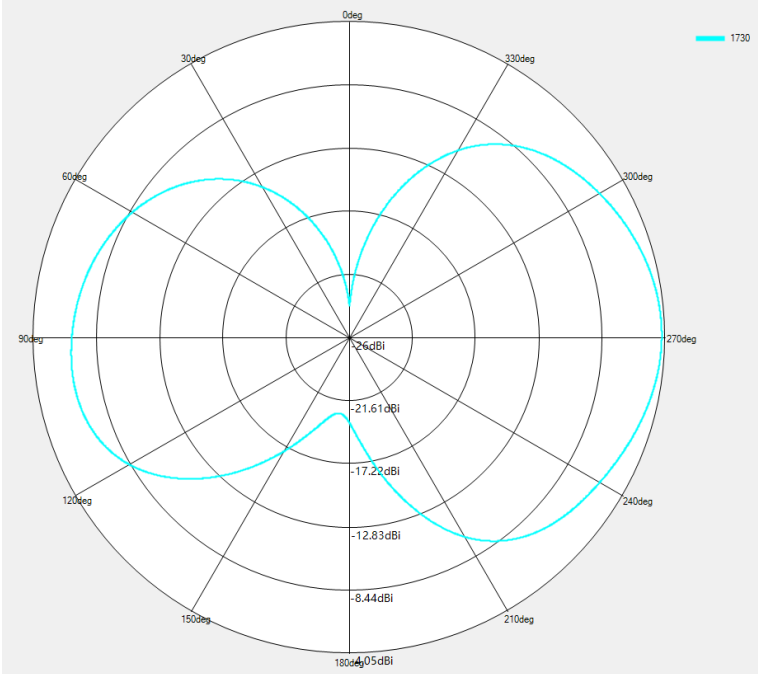
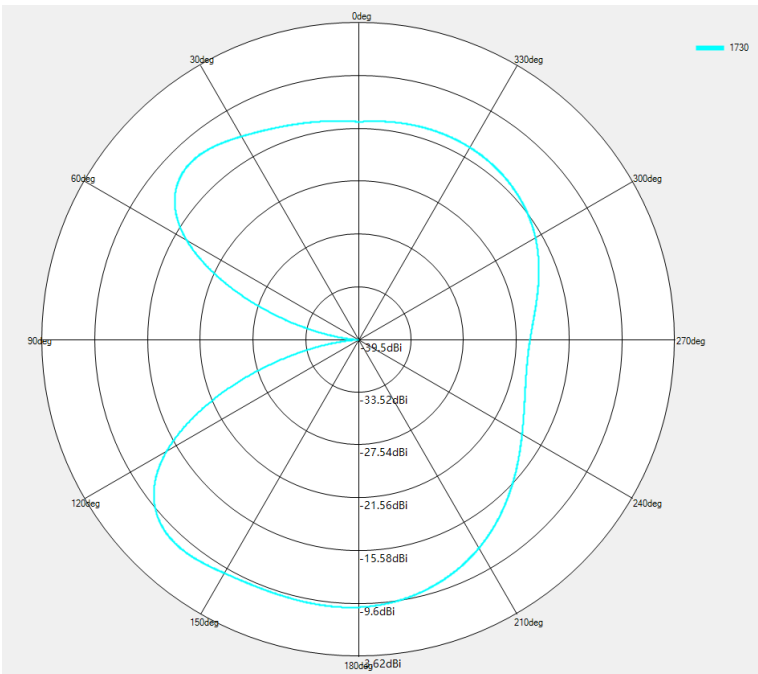


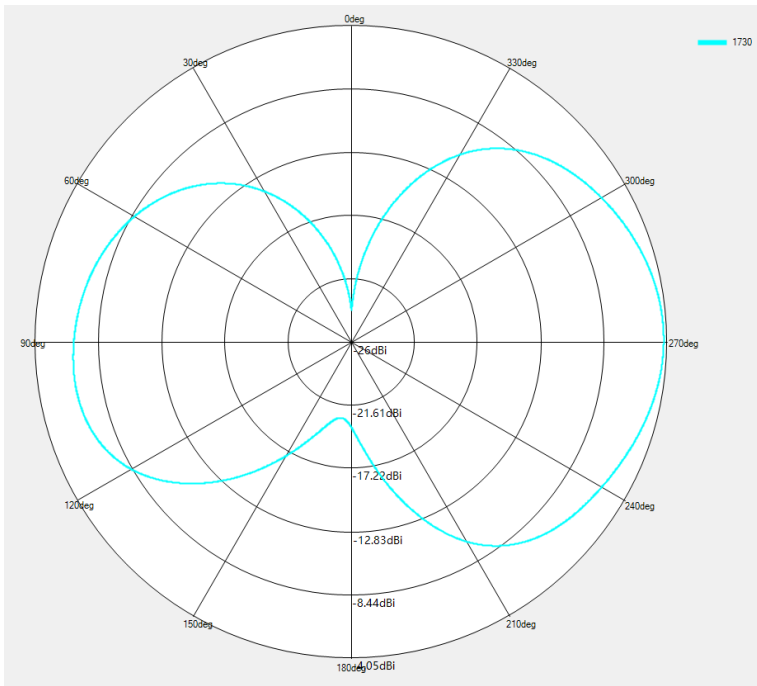
G900 / W8/B8



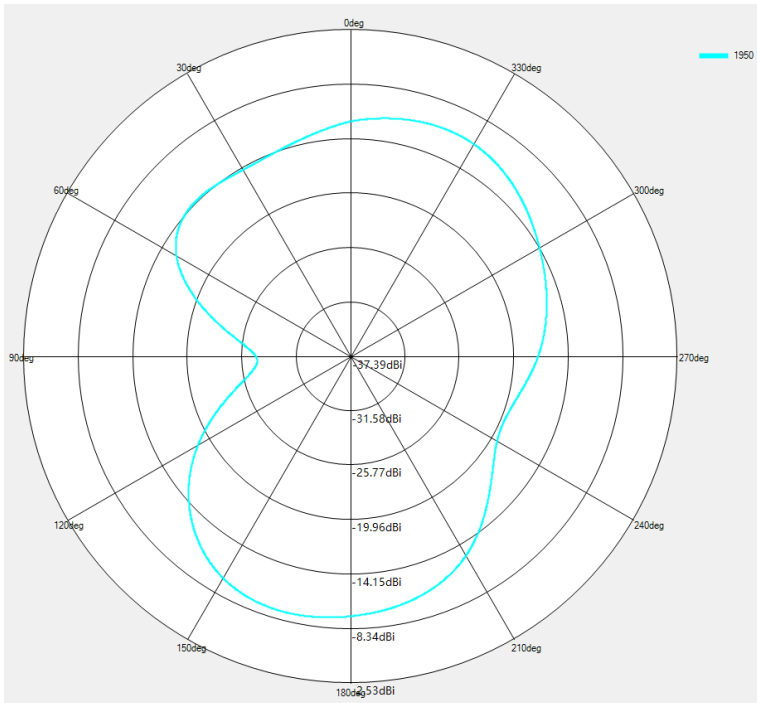


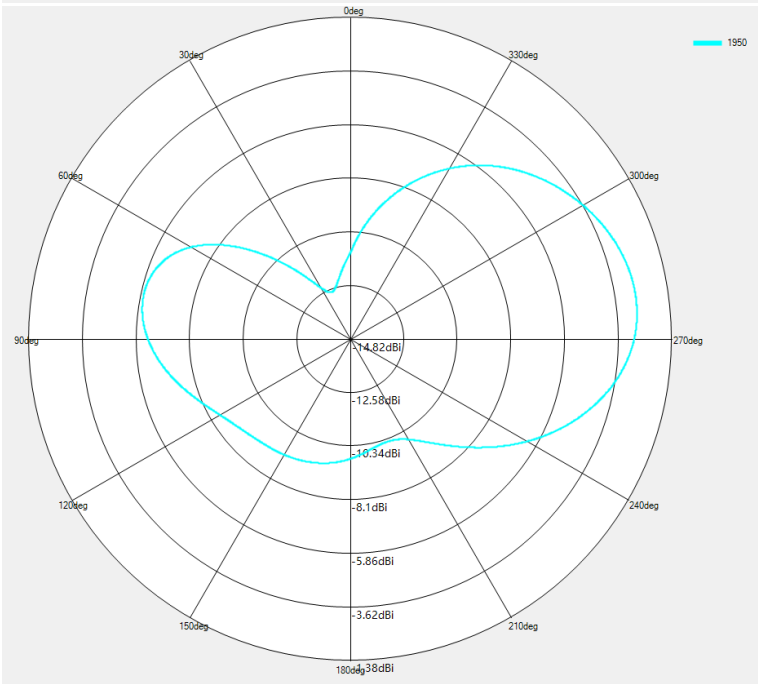
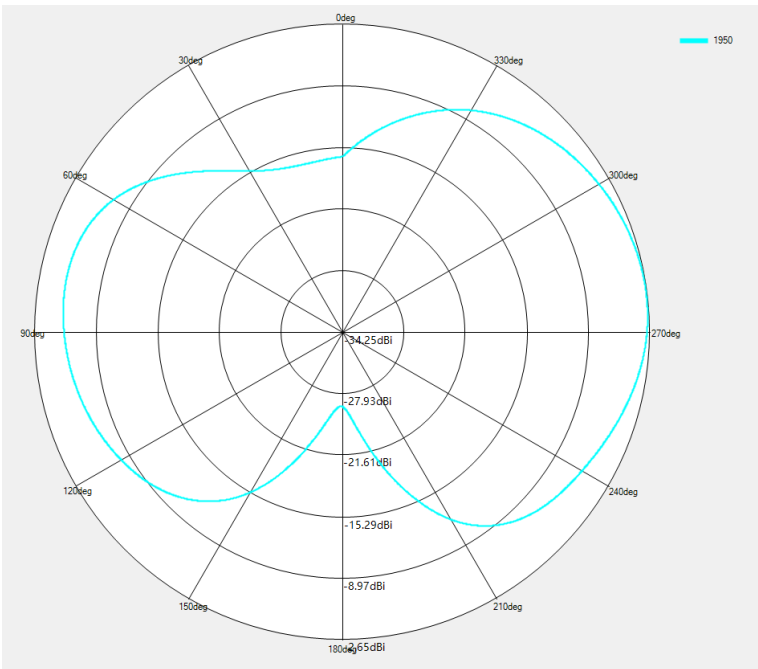
G1800/ W4 /B3/4/66



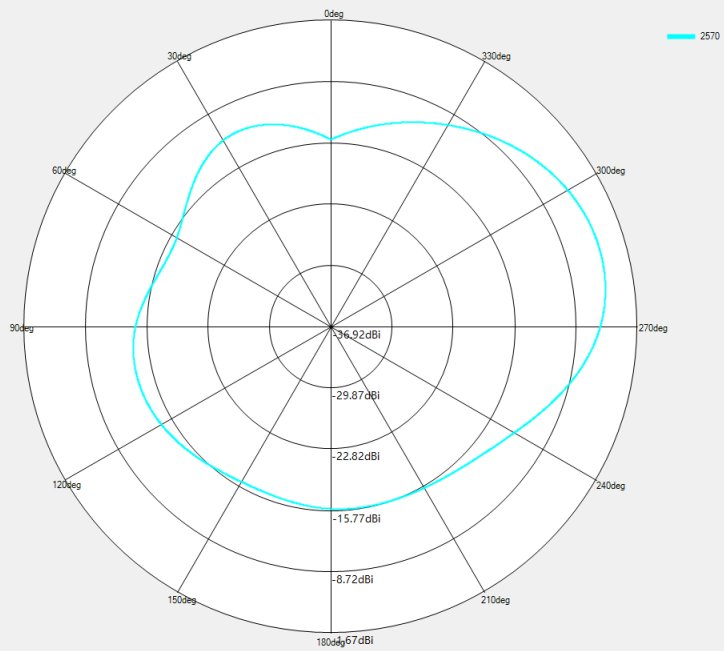
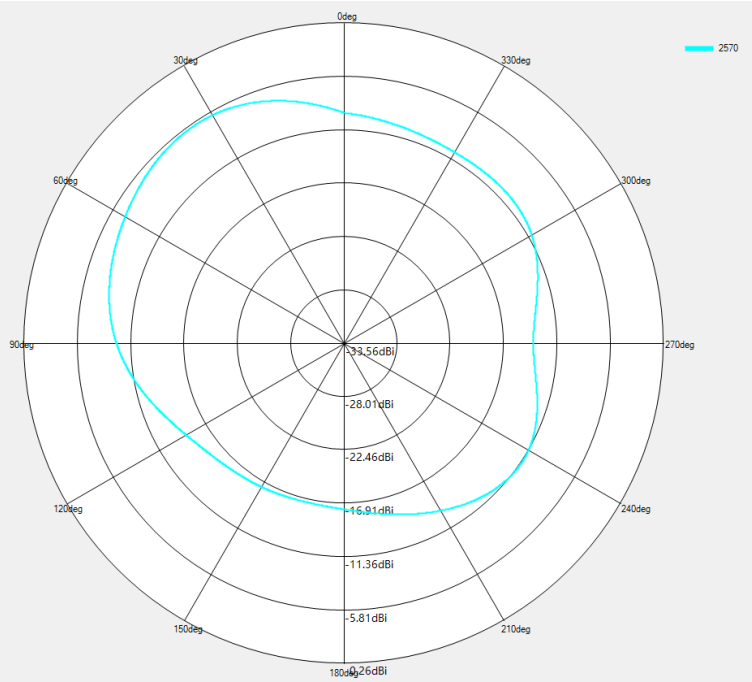


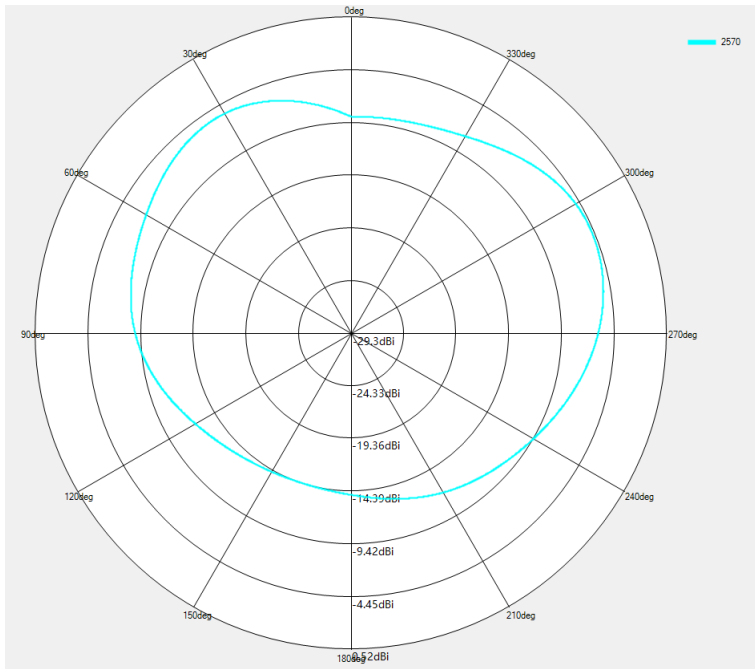
W1/B1



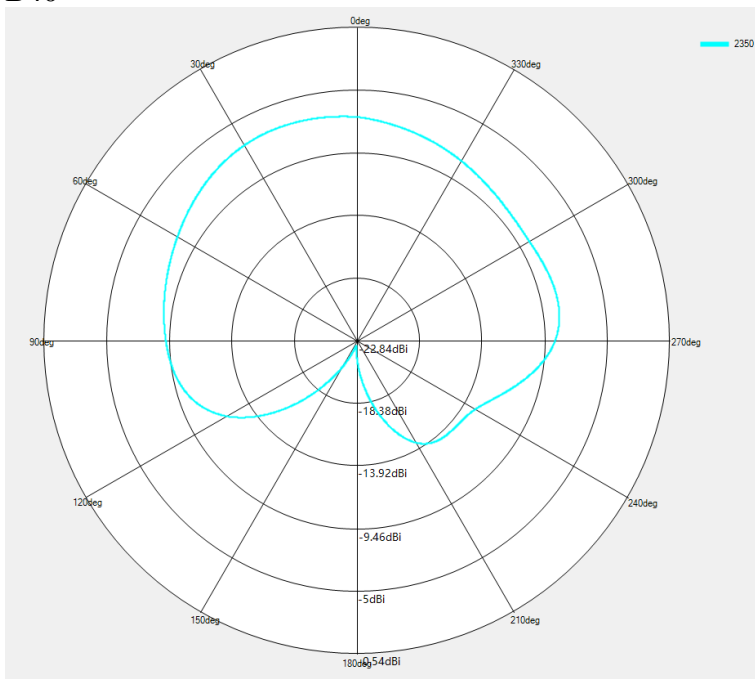


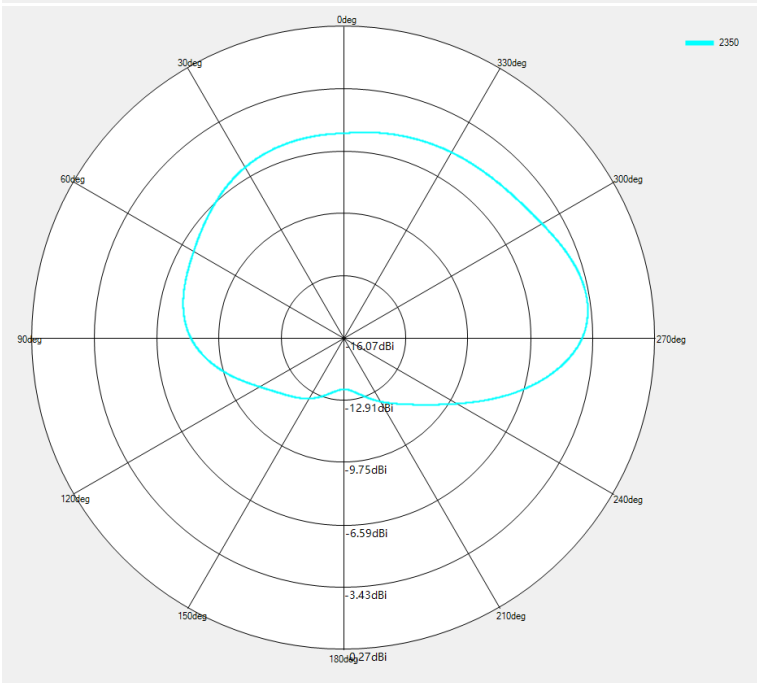
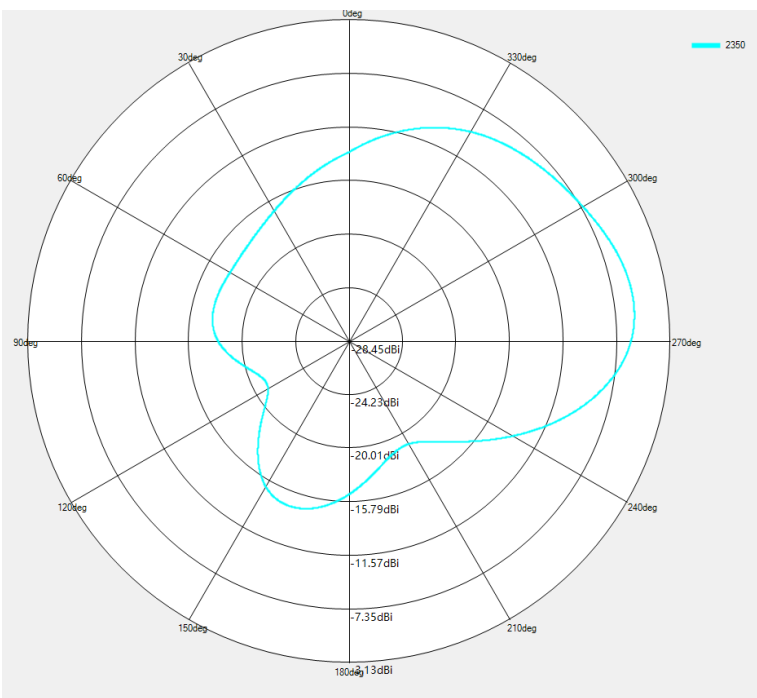
B7/38/41



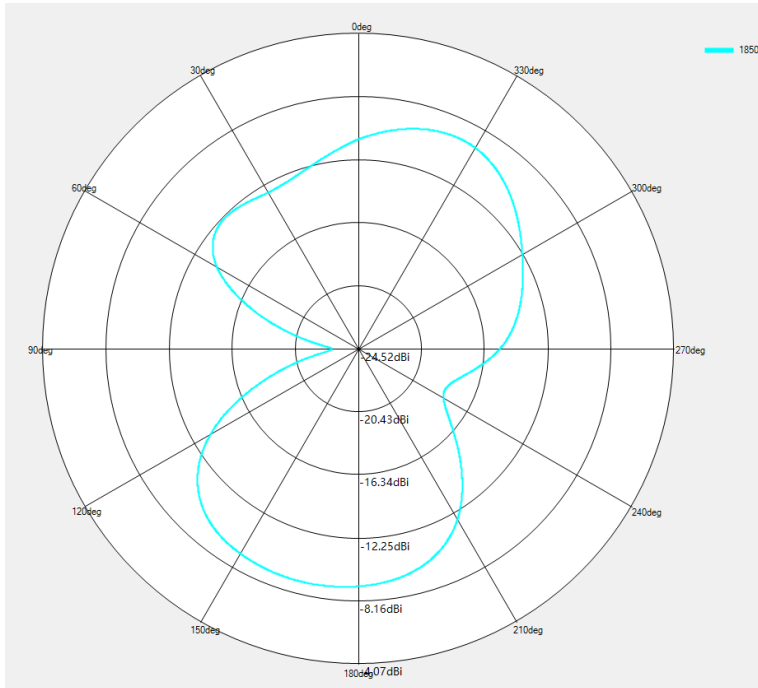
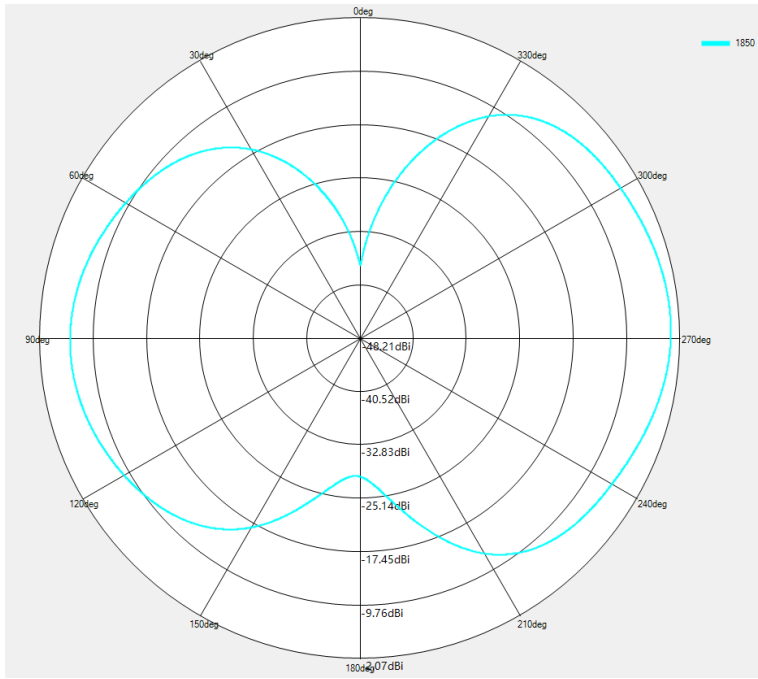


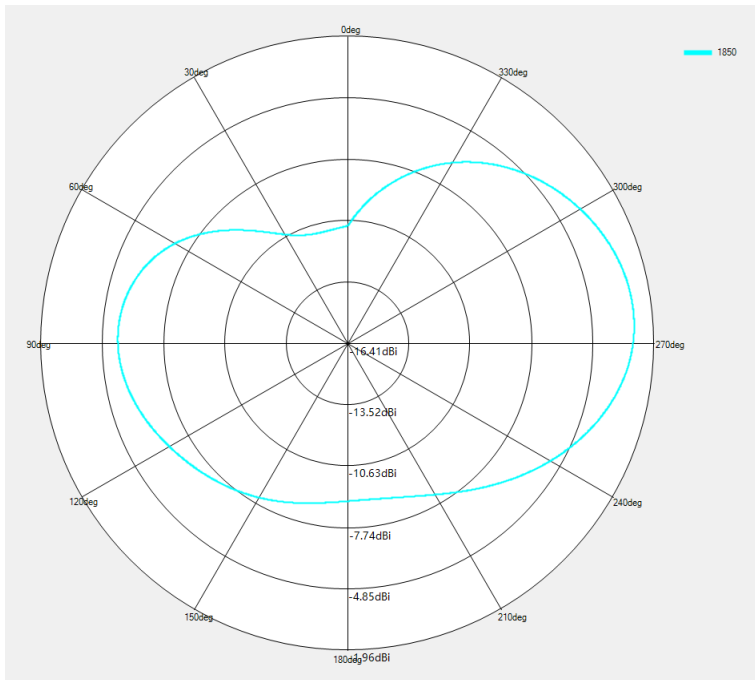
B40



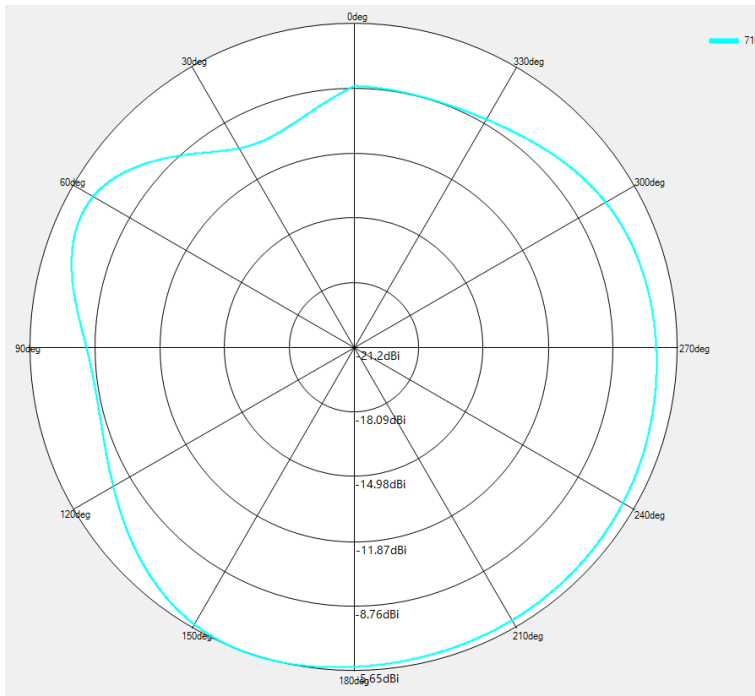


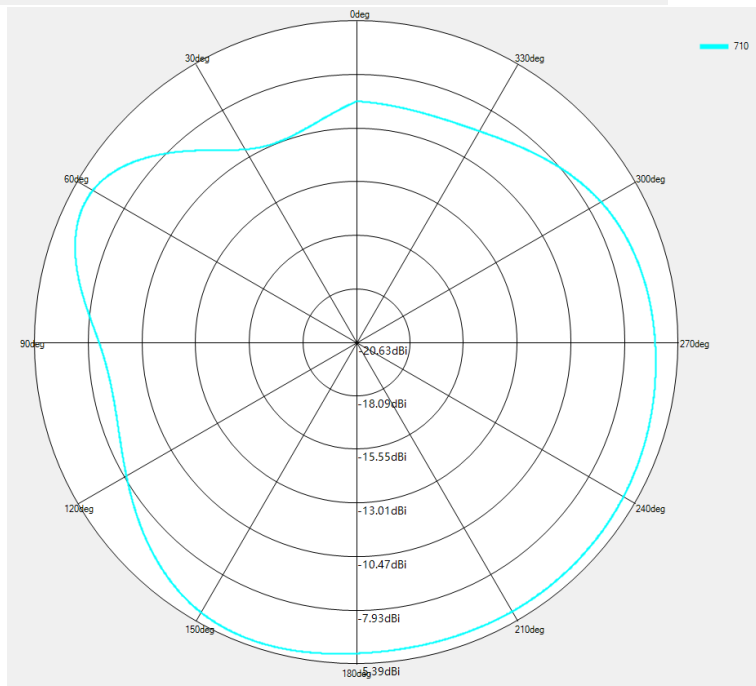
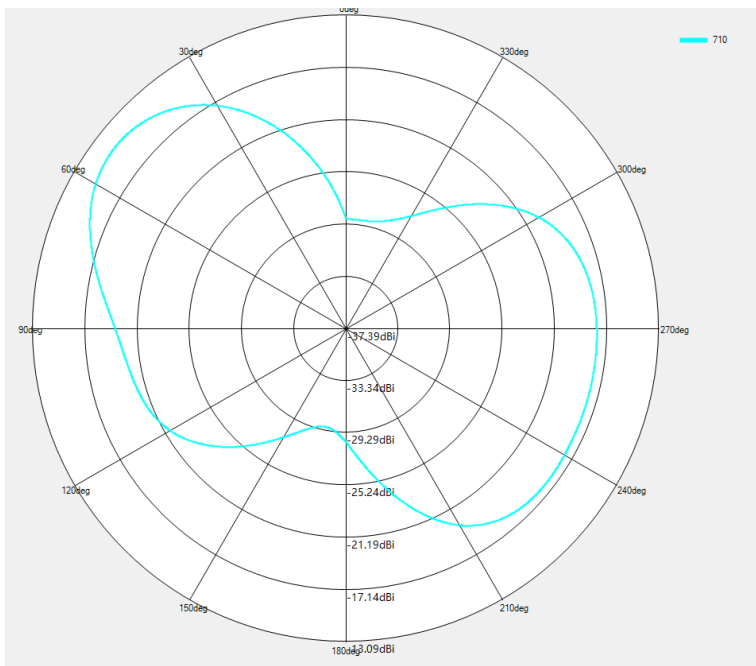
B2/W2/PCS1900





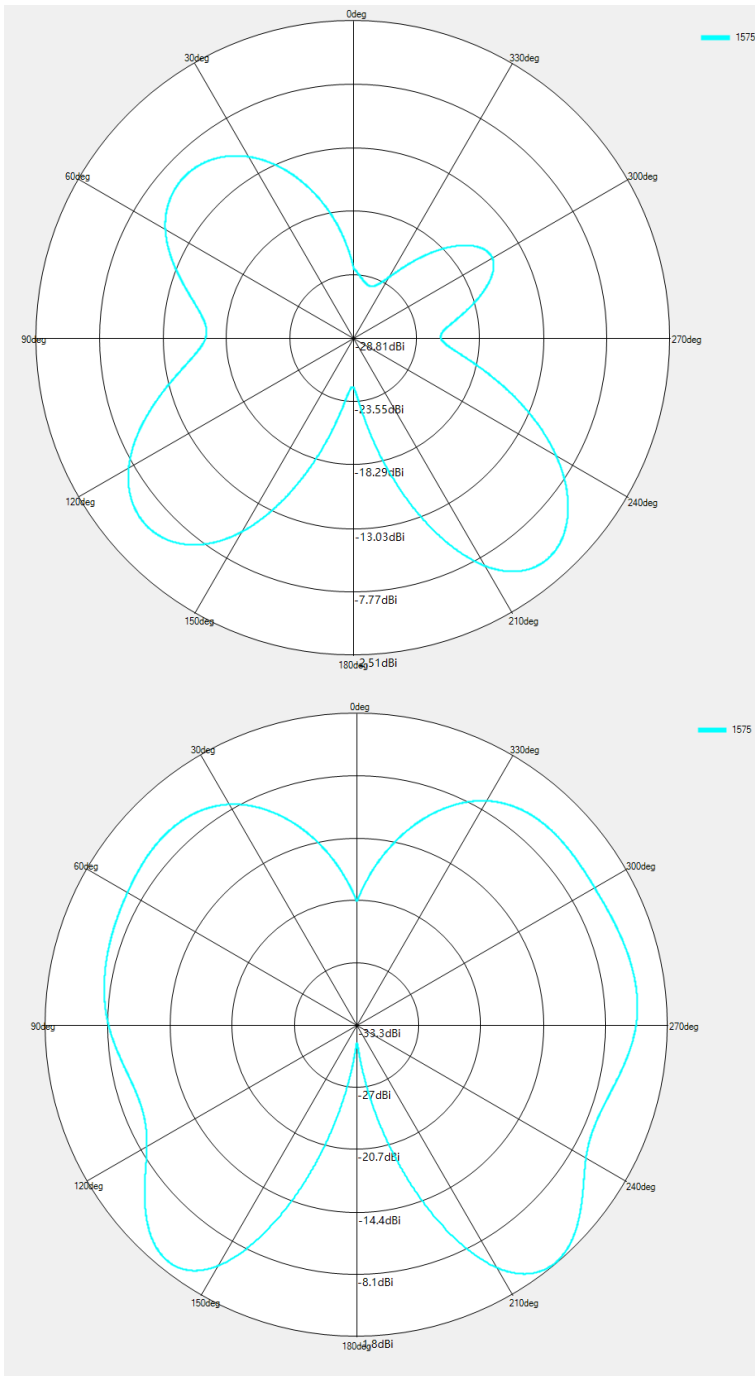
B28/B12/B17

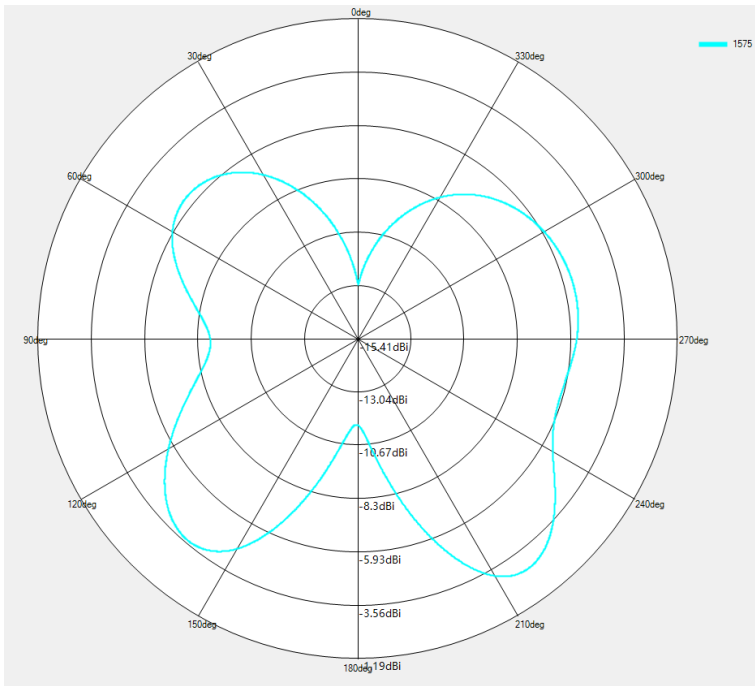




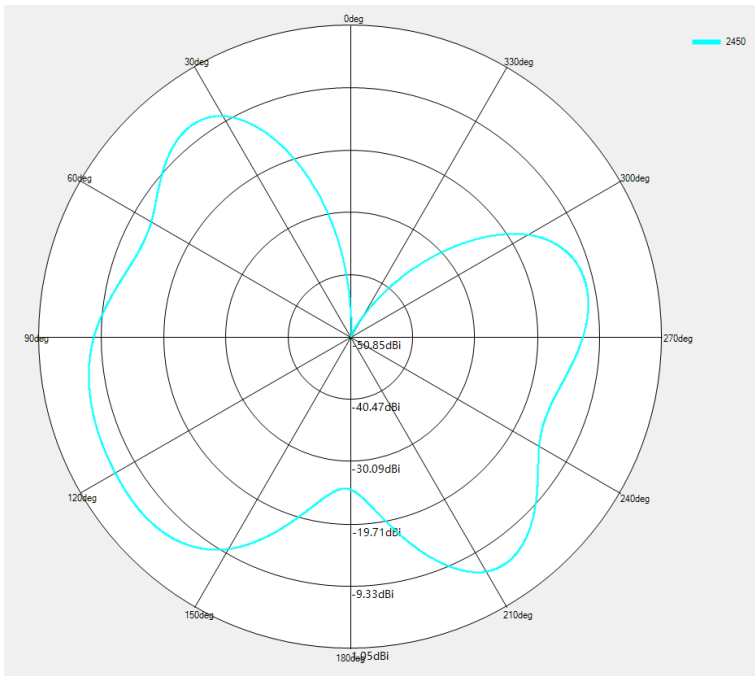
Three-in-one antenna

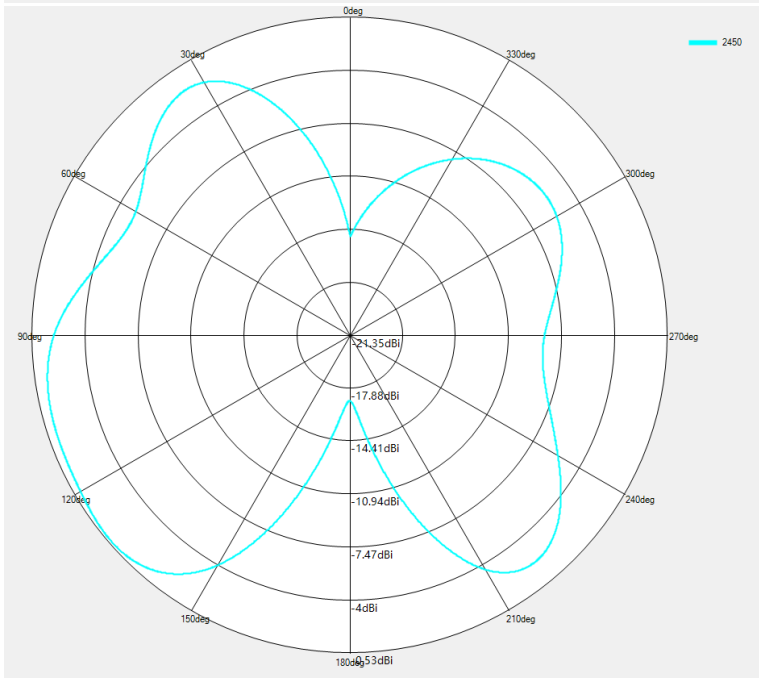
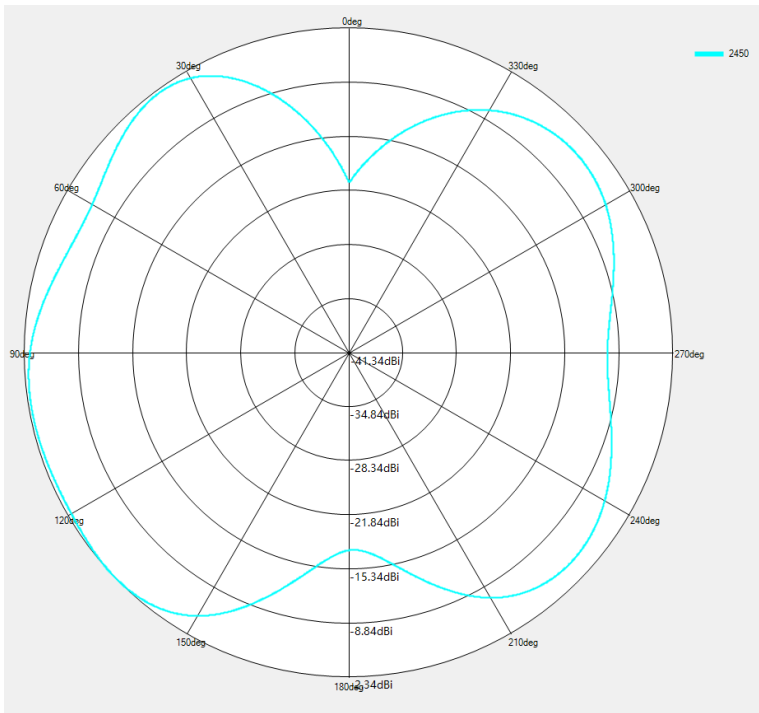
GPS





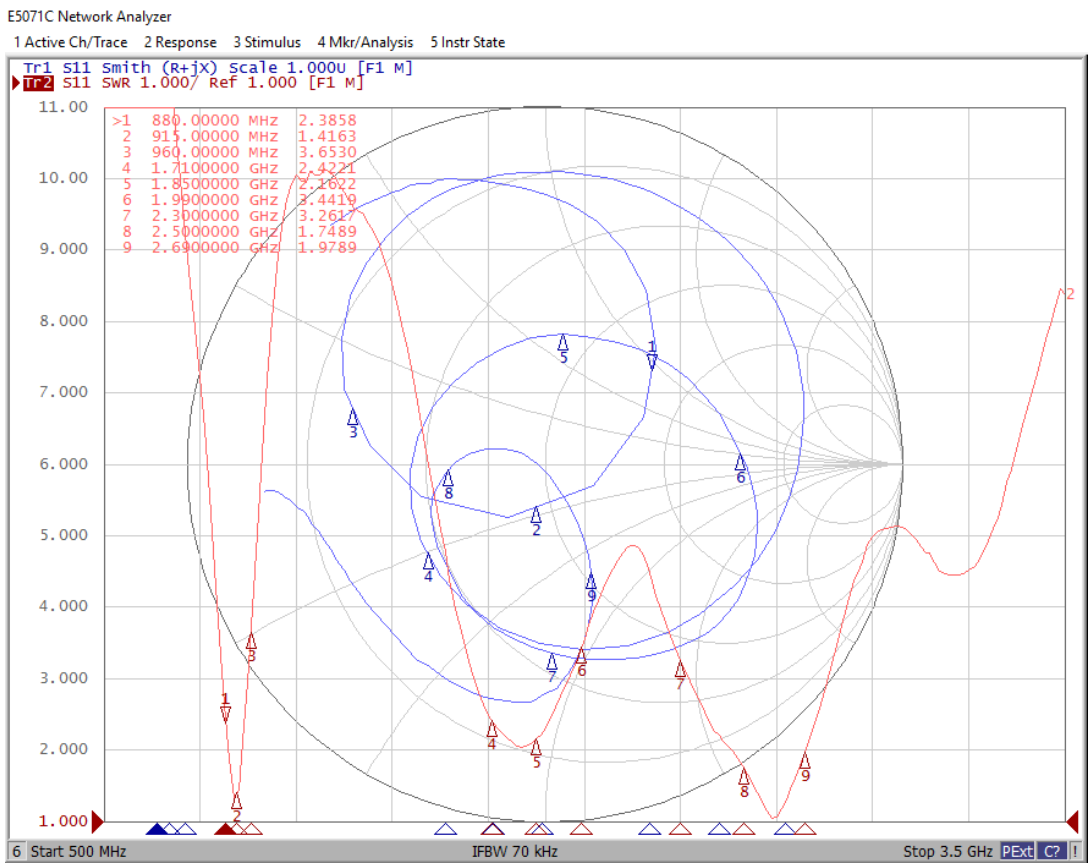
WIFI



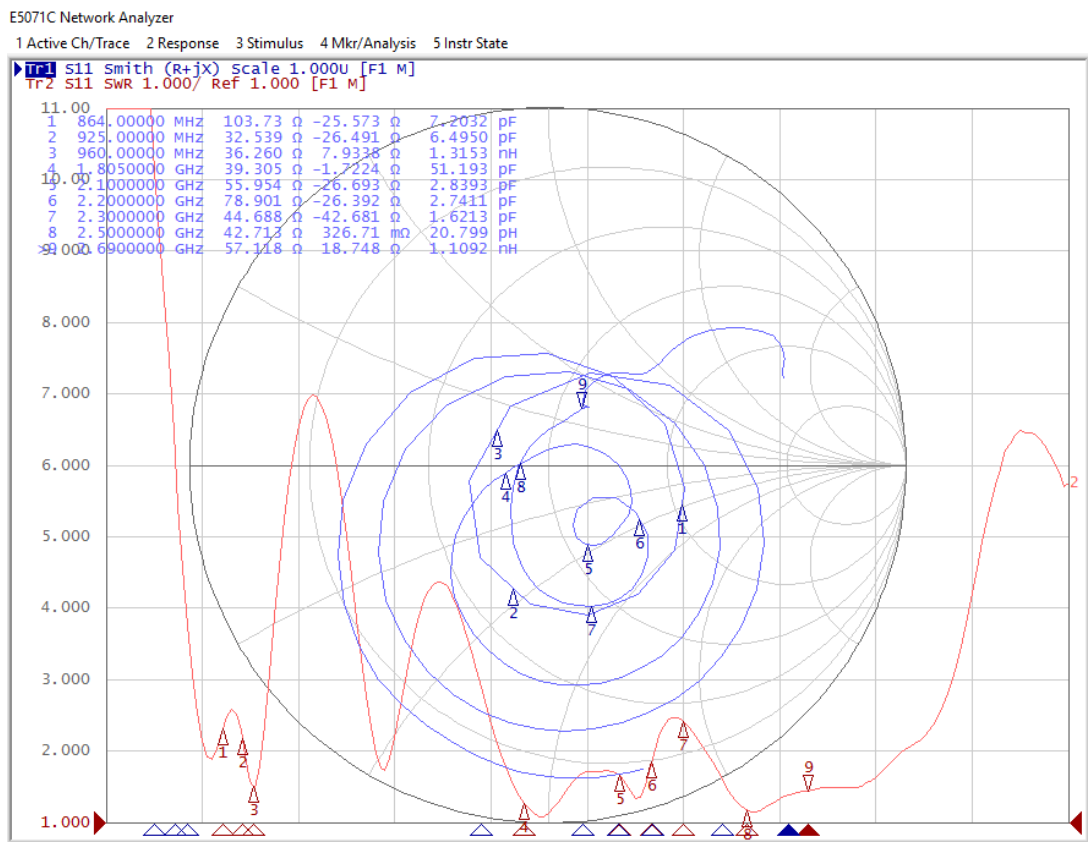


※S11:

Main Antenna



DIV Antenna



Three-in-one antenna

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr1 S11 Smith (R+jX) Scale 1.000U [F1 M]
Tr2 S11 SWR 1.000/ Ref 1.000 [F1 M]

