TRANSSION
传音控股

Feature

※ High gain
※ Omani-directional
※ Wide bandwidth

Application

※GSM850/PCS/WCDMAB1/B2/B4/B5
LTE B2/B4/B5/B7/B8/B12/B17 /B38 /B41/B42/B66
NR Mode N5/N7 /N12/N38 /N41/N66/N77/N78

Name and address of the antenna manufacturer	Model number of the antenna
Etheta Communication Technology (ShenZhen) Co.Ltd Zone B and Zone D, 3/F, Building 1, Baisha Science and Technology Industrial Park, No. 3011, Shahe West Road, Nanshan District, Shenzhen	AE10-A-ANT15-XX AE10-NFC-XX-XX

TYPE	
Transmitter Frequency	GSM 850/WCDMA B5/LTE B5 NR n5: 824 – 849 MHz
	DCS /WCDMA B4/LTE B4/B66 NR n66: 1710 – 1785 MHz
	PCS/WCDMA B2/LTE B2:1850-1910MHz
	WCDMA B1/LTE B1 NR n1: 1920 – 1980MHz
	LTE B7 NR n7:2496-2565MHz
	LTE B40 NR n40:2300-2400MHz
	LTE B38/B41 NR n38/n41:2565-2645MHz
	LTE B20 NR n20:832-862MHz
	LTE B12/B17/B28 NR n12/n28:710-755MHz
	LTE B42 NR n77/n78:3300-4200MHz
Receiver Frequency	GSM 850/WCDMA B5/LTE B5 NR n5: 869 – 894 MHz
	DCS/LTE B66 NR n66: 1805 – 1880 MHz
	WCDMA 4/LTE B4 NR n4: 2110-2155 MHz
	PCS/WCDMA B2/LTE B2:1930-1990MHz
	LTE B7 NR n7:2620-2690MHz
	LTE B38/41 NR n38/n41:2565-2645MHz

		LTE B12/B17/B28 NR n12/n28:758-803MHz
		LTE B42 NR n77/n78:3300-4200MHz
RF-Output Power (E.I.R.P)		GSM850: 32+/-2dBm
		PCS: 30+/-2dBm
		LTEB2/B4/B5/B7/B12/B17/B38/B40/B41/B66: 23+/-2dBm
		WCDMA BB2/B4/B5/ B8: 23+/-2dBm
Antenna Average Gain（UNFOLD ）	ANT1 （ 78_PRX ）	LTE B42,NR77/78: -2.0 dbi
	ANT3 （ _DRX ）	PCS/WCDMA B1/B2/LTE B1/B2/N1/N2: -7.62 dbi
		DCS /WCDMA B4/LTE B3/B4/B66/ N3/N4N66: -4.69 dbi
		LTE B7/B38//B41/N7/N38/N41: -1.55 dbi
		LTE B40,NR N40: -2.75 dbi
	ANT4(LB_DRX)	LTE B12/B17/B28 NR n12/n28:-9.23 dbi
		GSM 850, WCDMA B5, LTE B5,NR n5:-10.63 dbi
		GSM900, WCDMA B8, LTE B8 ,NR n8: -9.65 dbi
		LTE B20/N20: -13.4 dbi
	ANT5(N77/78_DRX2)	LTE B42, NR77/78: -3.25 dbi
	ANT6(WIFI_2.4G+N77/78_DRX)	LTE B42, NR77/78: -4.75 dbi WIFI 2.4G MIMO2: -4.01 dbi
	ANT7(LB_PRX)	LTE B12/B17/B28 NR n12/n28: -6.31 dbi
		GSM 850, WCDMA B5, LTE B5 B20,NR n5,n20 ÷ 5.33 dbi
		GSM900, WCDMA B8, LTE B8,NR n8: -4.61 dbi
	ANT8 （ _TRX+N77/78_PRX2 ）	WCDMA B1/LTE B1/B34,NR N1: -5.26 dbi
		PCS/WCDMA B2/LTE B2/B39: -4.32 dbi
		DCS /WCDMA B4/LTE B3/B4/B66/ N3/N4/N66: -3.83 dbi
		LTE B7/B38/B41/N7N38/N41: -1.63 dbi
		LTE B40,NR N40: -3.13 dbi
		LTE B42, NR77/78: -1.5 dbi
	ANT12:(GPS_L1)	GPS L1: -3 dbi
	ANT13 （ _L5+WIFI2.4G ）	GPS L5: -4.85 dbi WIFI 2.4G MIMO1: -5.12 dbi
	ANT15 （	WIFI 5G MIMO1: -4.06 dbi

Antenna Average Gain （D ）	I5G/6E_MIMO1 ）	WIFI 6E MIMO1: -0.9 dbi
	ANT16 (W I5G/6E_MIMO2 ）	WIFI 5G MIMO2:-1.83 dbi WIFI 6E MIMO2: 0.4 dbi
	ANT1 （ 78_PRX ）	LTE B42,NR77/78: -3.3 dbi
	ANT3 （ _DRX ）	PCS/WCDMA B1/B2/LTE B1/B2/N1/N2: -9.83 dbi
		DCS /WCDMA B4/LTE B3/B4/B66/ N3/N4N66: -7.65 dbi
		LTE B7/B38//B41/N7/N38/N41: -3.34 dbi
		LTE B40,NR N40: -3.42 dbi
	ANT4(LB_DRX)	LTE B12/B17/B28 NR n12/n28: -9 dbi
		GSM 850, WCDMA B5, LTE B5,NR n5: -9.64 dbi
		GSM900, WCDMA B8, LTE B8 ,NR n8: -9.57 dbi
		LTE B20/N20:-11.23 dbi
	ANT5(N77/78_DRX2)	LTE B42, NR77/78: -6.48 dbi
	ANT6(WIFI_2.4G+N77/78_DRX)	LTE B42, NR77/78: -6.98 dbi WIFI 2.4G MIMO2: -4.32 dbi
	ANT7(LB_PRX)	LTE B12/B17/B28 NR n12/n28: -8.71 dbi
		GSM 850, WCDMA B5, LTE B5 B20,NR n5,n20 ÷ 8.85 dbi
		GSM900, WCDMA B8, LTE B8,NR n8: -8.79 dbi
	ANT8 （ _TRX+N77/78_PRX2 ）	WCDMA B1/LTE B1/B34 ,-4.52 dbi:
		PCS/WCDMA B2/LTE B2/B39: -6.28 dbi
		DCS /WCDMA B4/LTE B3/B4/B66/ N3/N4/N66:-5.15 dbi
		LTE B7/B38/B41/N7N38/N41: -1.86 dbi
		LTE B40,NR N40: -3.9 dbi
		LTE B42, NR77/78: -3.6 dbi
	ANT12:(GPS_L1)	GPS L1: -5.6 dbi

	ANT13（_L5+WIFI2.4G）	GPS L5: -8.9 dbi WIFI 2.4G MIMO1: -7.35 dbi
	ANT15（I5G/6E_MIMO1）	WIFI 5G MIMO1:-3.51 dbi WIFI 6E MIMO1: -0.81 dbi
	ANT16（I5G/6E_MIMO2）	WIFI 5G MIMO2: -2.52 dbi WIFI 6E MIMO2: -1.19 dbi
RF	Antenna type	PIFA
NFC，WPT	Antenna type	Coil

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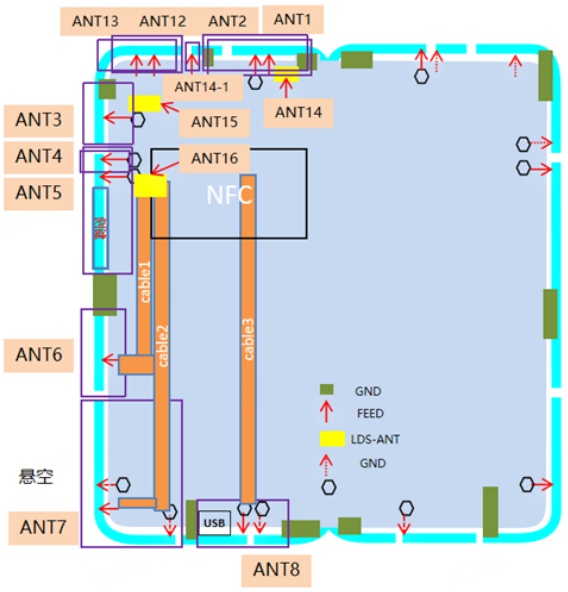
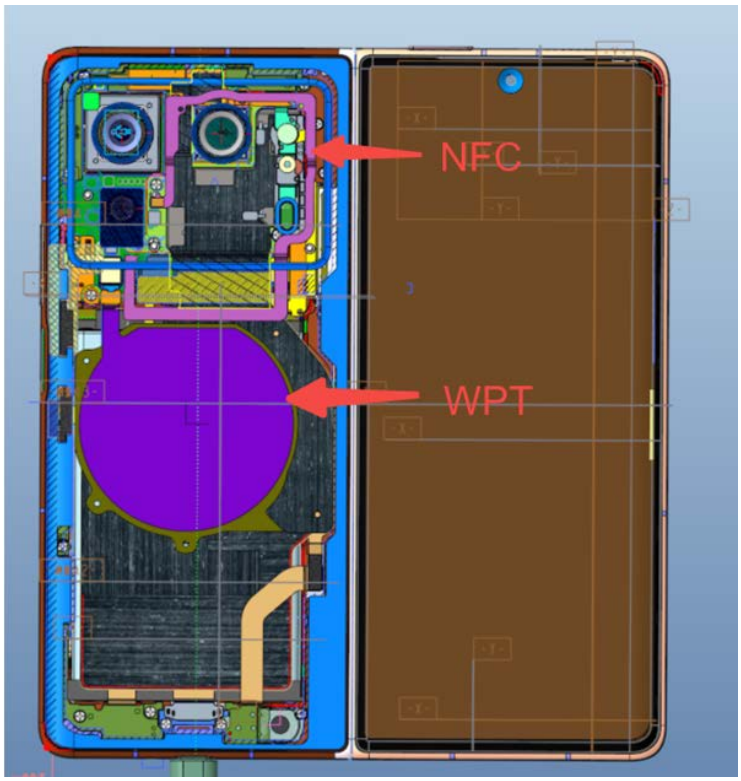
Antenna profile



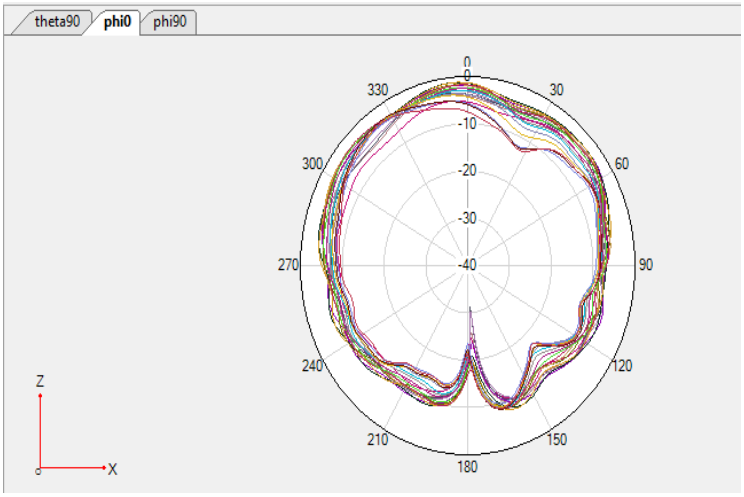
ANT1	5G-TX：N77/78-TX
ANT2	4G-RX：B1/3/40 (RX) 5G-RX：1/3/40 (RX)
ANT3	2G-RX：GSM1800 (RX) 3G-RX：W1 (RX) 4G-RX：B1/3/40 (RX) 5G-RX：1/3/40 (RX)
ANT4	2G-RX：GSM900 (RX) 3G-RX：W8 (RX) 4G-RX：B5/8 (RX) 5G-RX：5/8 (RX)
ANT5	5G-TX：N77/78-RX
ANT6	5G-TX：N77/78-RX
ANT7	2G-TX：GSM900 (TX) 3G-TX：W8 (TX) 4G-TX：B5/8 (TX) 5G-TX：5/8 (TX) 4G-RX：B1/3/40 (RX) 5G-RX：1/3/40 (RX)
ANT8	2G-TX：GSM1800 (TX) 3G-TX：W1/ (TX) 4G-TX：LTEB1/3/40 (TX) 5G-RX：1/3/40 (TX) 5G-TX：N77/78-RX

Assembly	4G TX	5G TX	Remarks (need to mark cut to ANTX)
B3-N1	ANT2	ANT8	N need to cut ANT3
B8-N1	ANT7	ANT8	
B40-N1	ANT2	ANT8	
B1-N3	ANT2	ANT8	
B8-N3	ANT7	ANT8	
B1-N5	ANT8	ANT7	
B3-N5	ANT8	ANT7	
B1-N8	ANT8	ANT7	
B3-N8	ANT8	ANT7	
B1-N40	ANT2	ANT8	
B3-N40	ANT2	ANT8	
B5-N40	ANT7	ANT8	
B8-N40	ANT7	ANT8	
Note: The ANT value in the table indicates the serial number of the antenna			

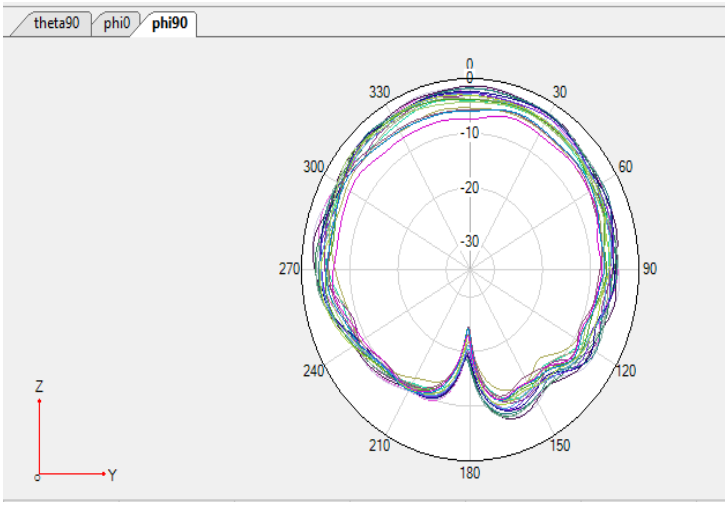


※ Antenna Gain

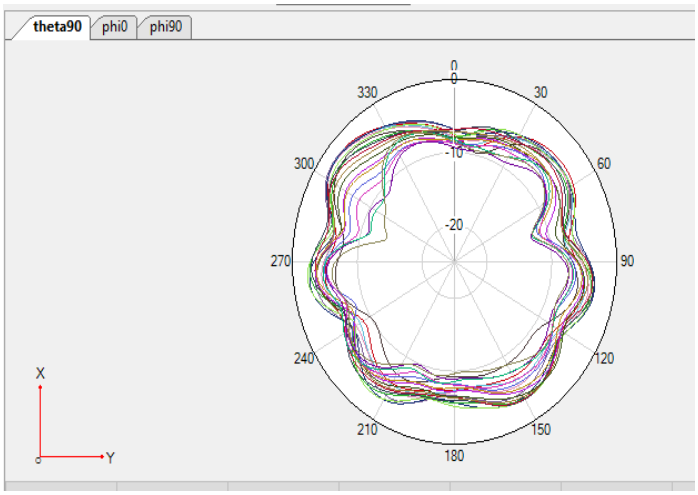
ANT1



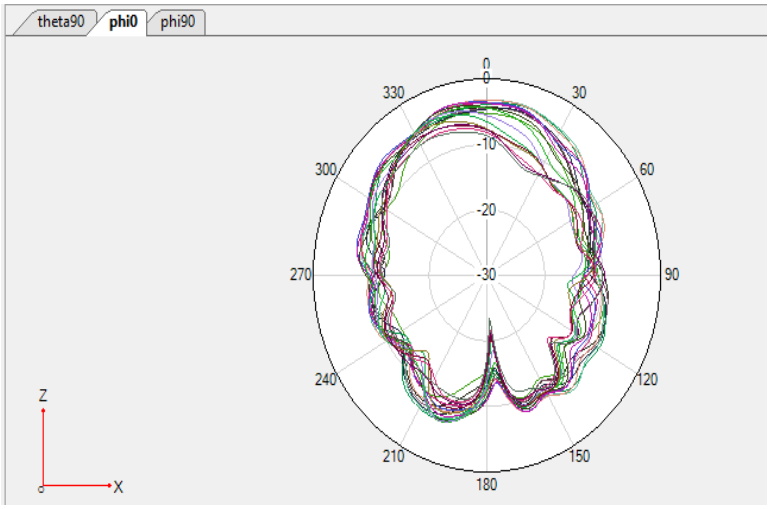
UNFOLD_N77/78/B42_PRX Phi=0deg



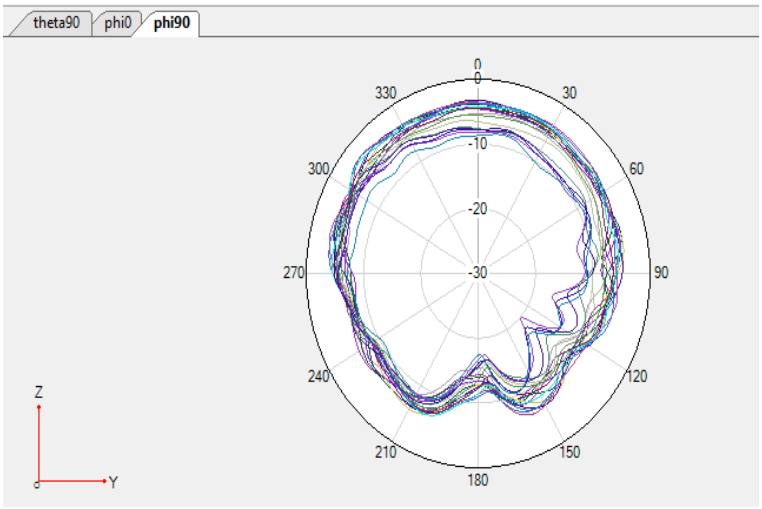
UNFOLD_N77/78/B42_PRX Phi=90deg



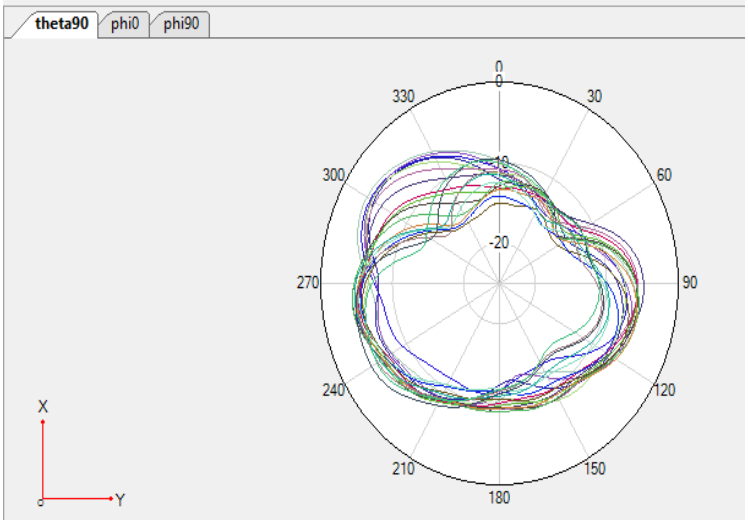
UNFOLD_N77/78/B42_PRX　　Theta=90deg



FOLD_N77/78/B42_PRX　　Phi=0deg



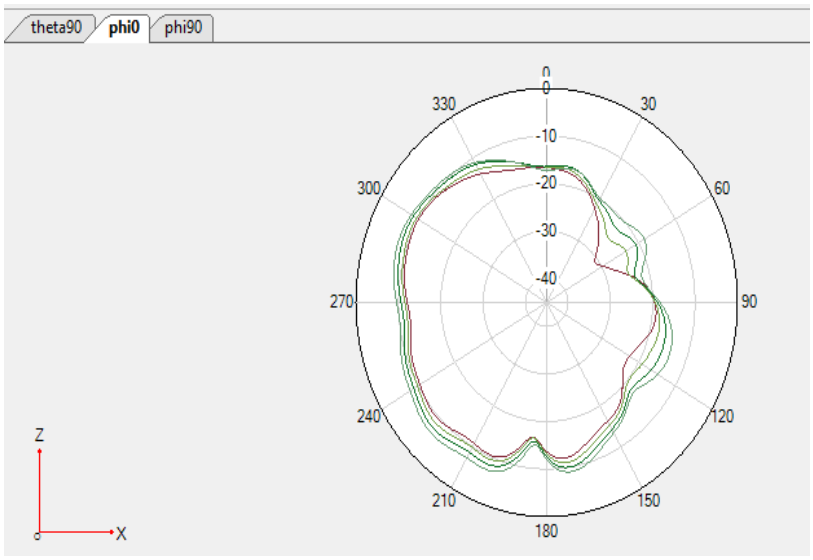
FOLD_N77/78/B42_PRX Phi=90deg



FOLD_N77/78/B42_PRX Theta=90deg

※ Antenna Gain

ANT3



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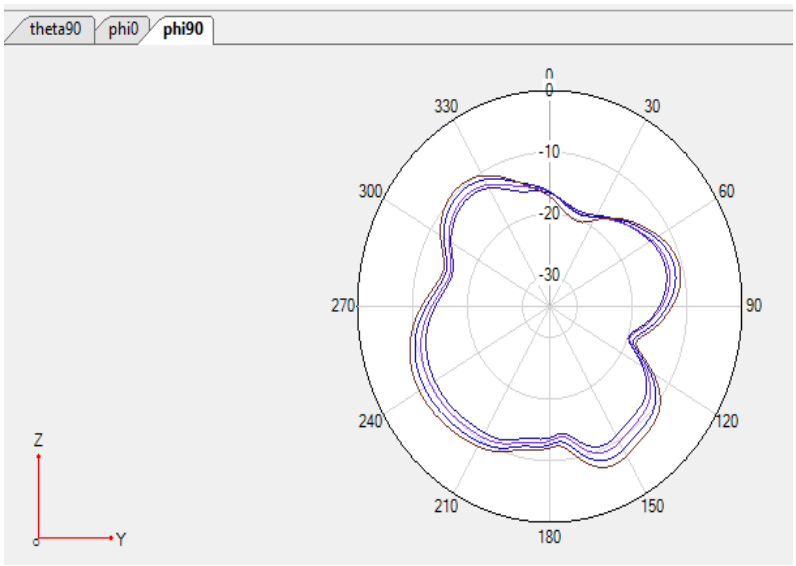
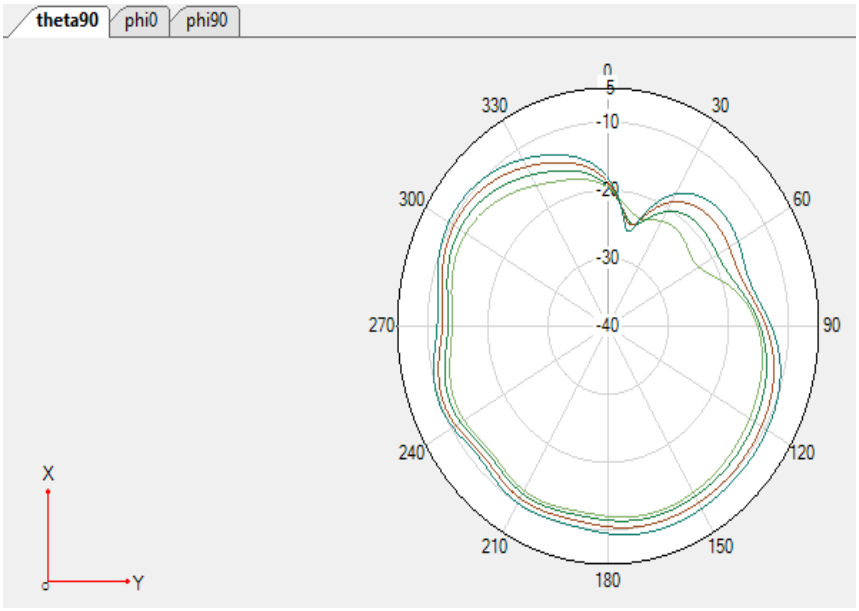
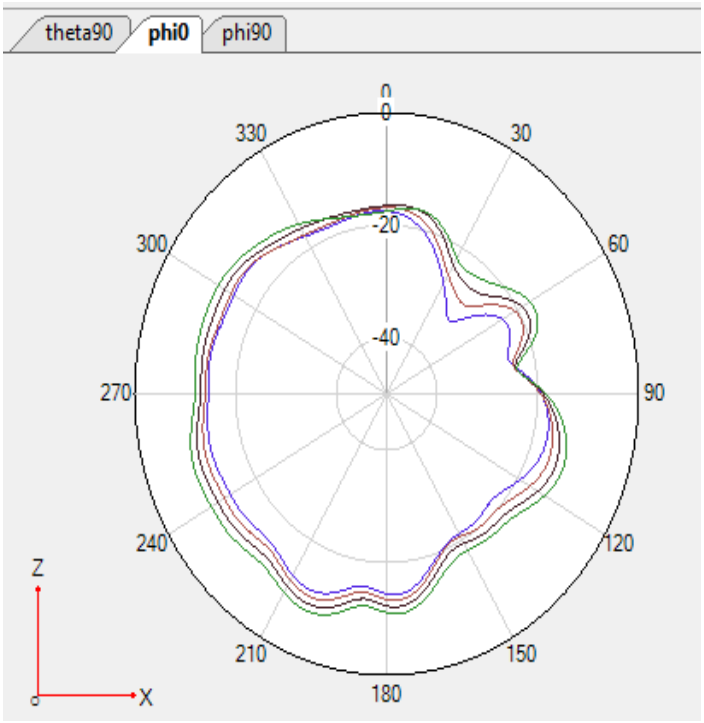


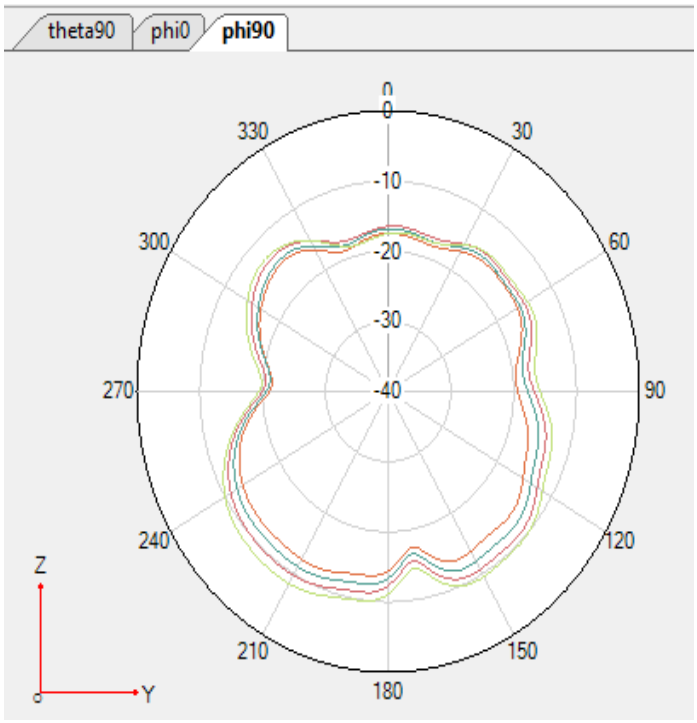
UNFOLD_MHB_DRX_DPDT_PCS/W1/W2/B1/B2/N1/N2 Phi=90deg



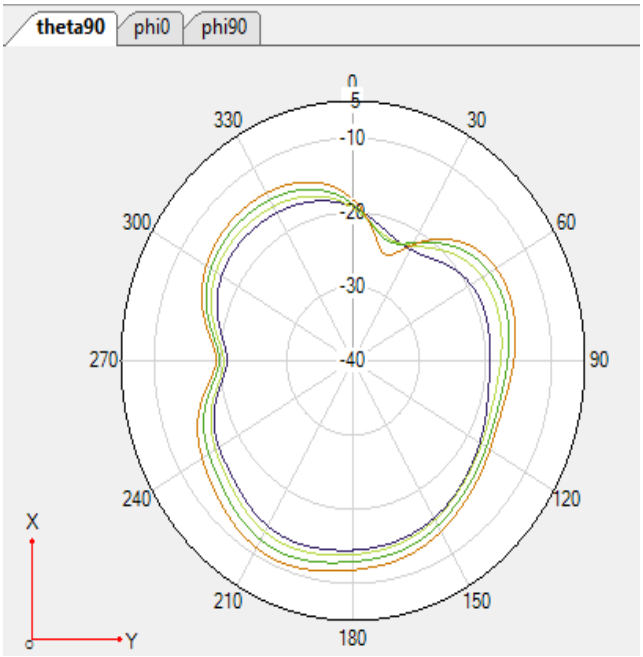
UNFOLD_MHB_DRX_DPDT_PCS/W1/W2/B1/B2/N1/N2 Theta=90deg



FOLD_MHB_DRX_DPDT_PCS/W1/W2/B1/B2/N1/N2 Phi=0deg

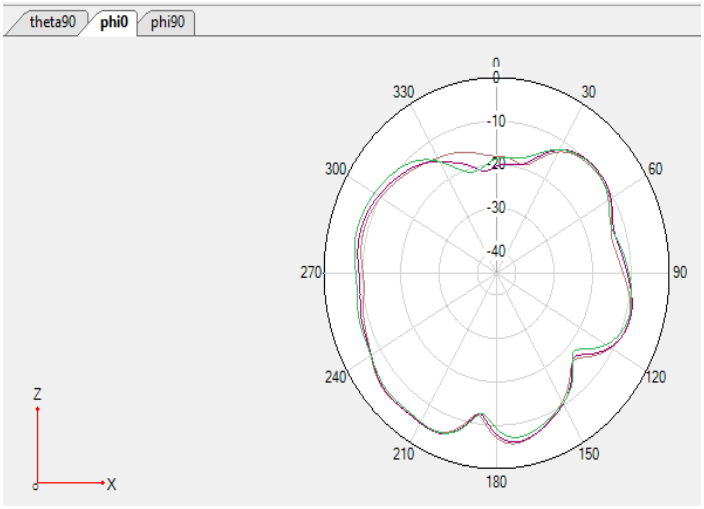


FOLD_MHB_DRX_DPDT_PCS/W1/W2/B1/B2/N1/N2 Phi=90deg

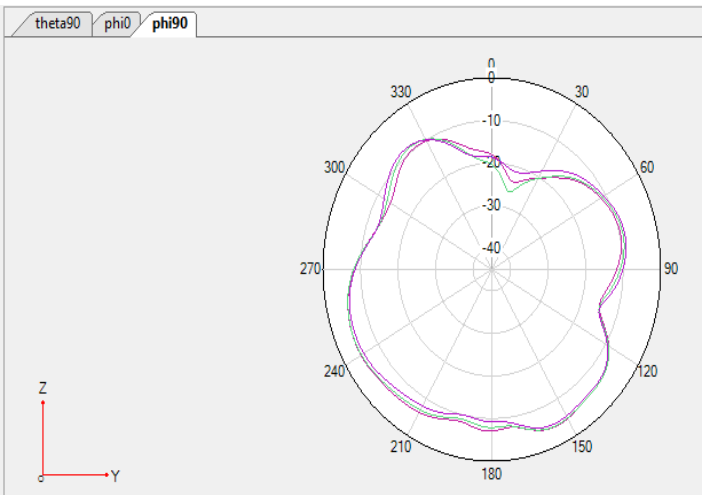


FOLD_MHB_DRX_DPDT_PCS/W1/W2/B1/B2/N1/N2 Theta=90deg

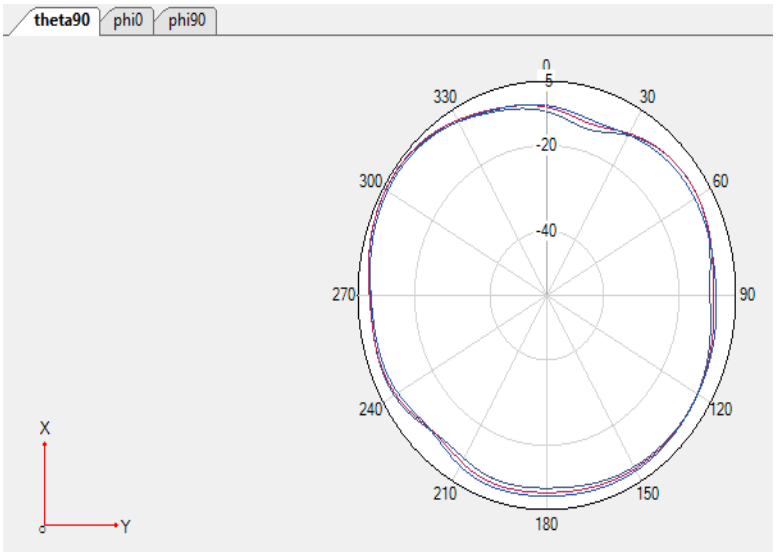
ANT3



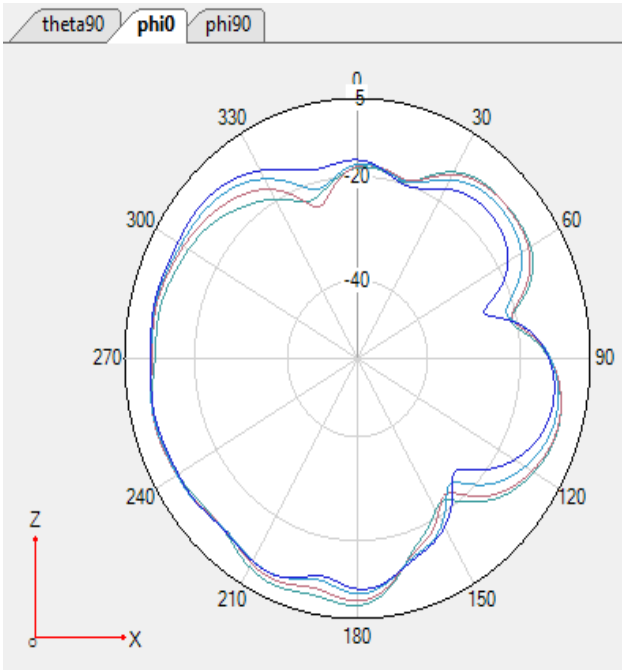
UNFOLD_MHB_DRX_DPDT_DCS/W4/B3/B4/B66/N3/N4/N66 Phi=0deg



UNFOLD_MHB_DRX_DPDT_DCS/W4/B3/B4/B66/N3/N4/N66 Phi=90deg



UNFOLD_MHB_DRX_DPDT_DCS/W4/B3/B4/B66/N3/N4/N66 Theta=90deg



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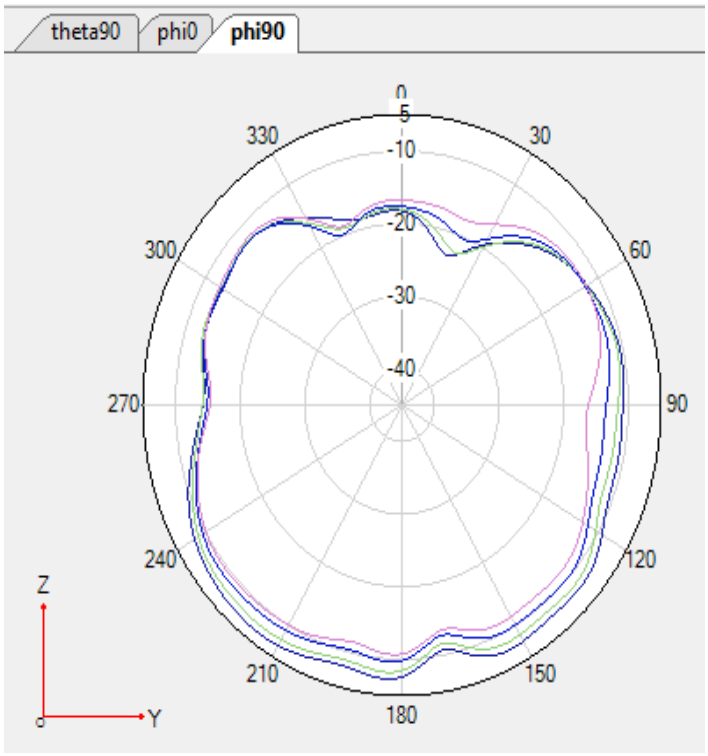

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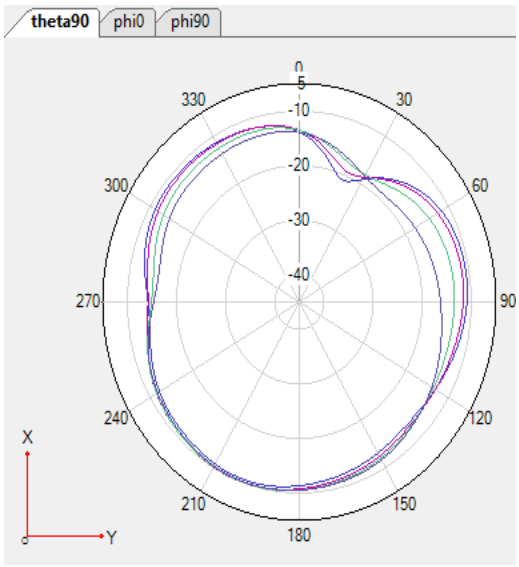
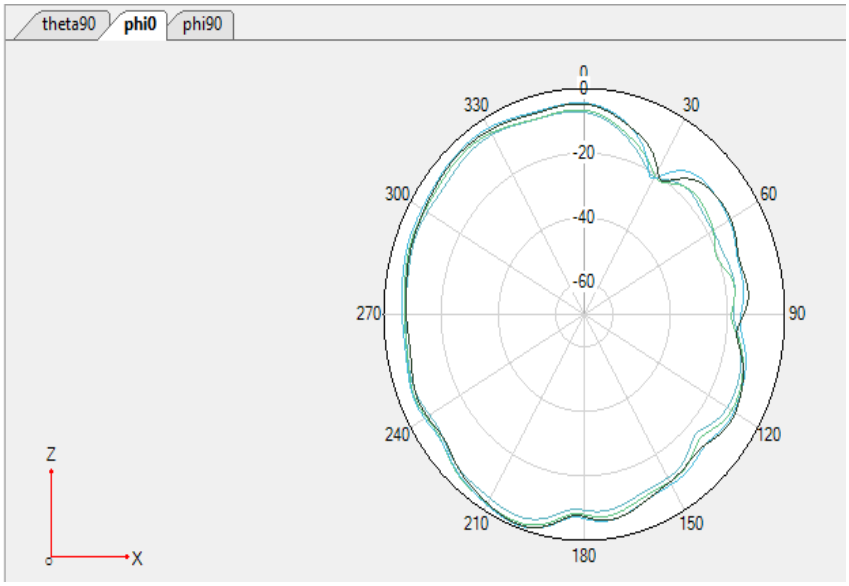
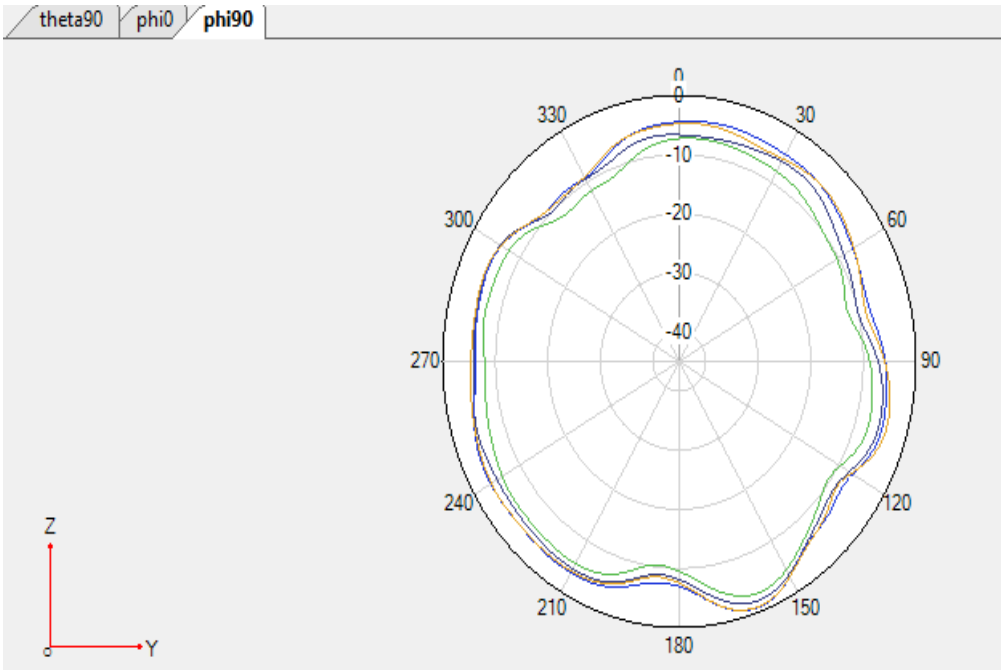


FOLD_MHB_DRX_DPDT_DCS/W4/B3/B4/B66/N3/N4/N66 Theta=90deg

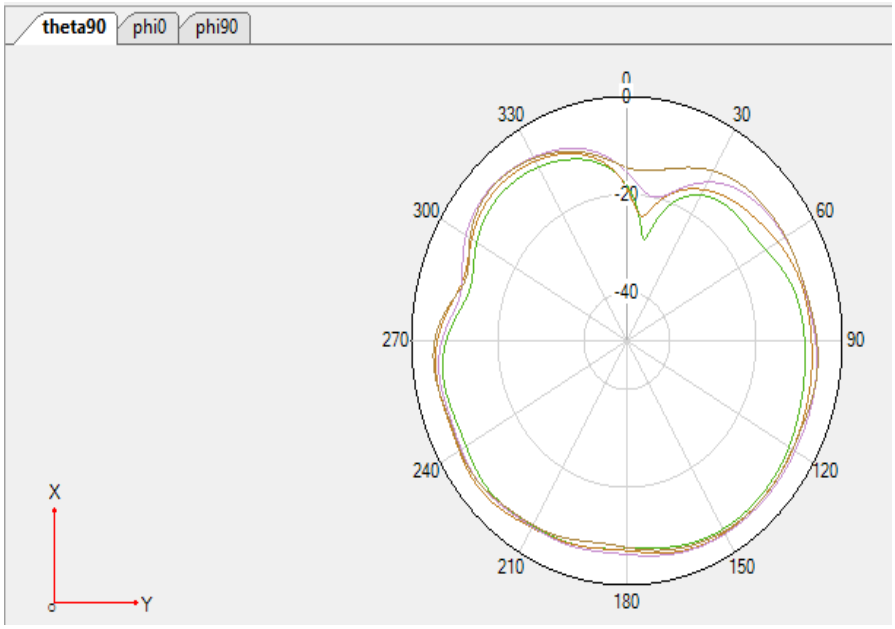
ANT3



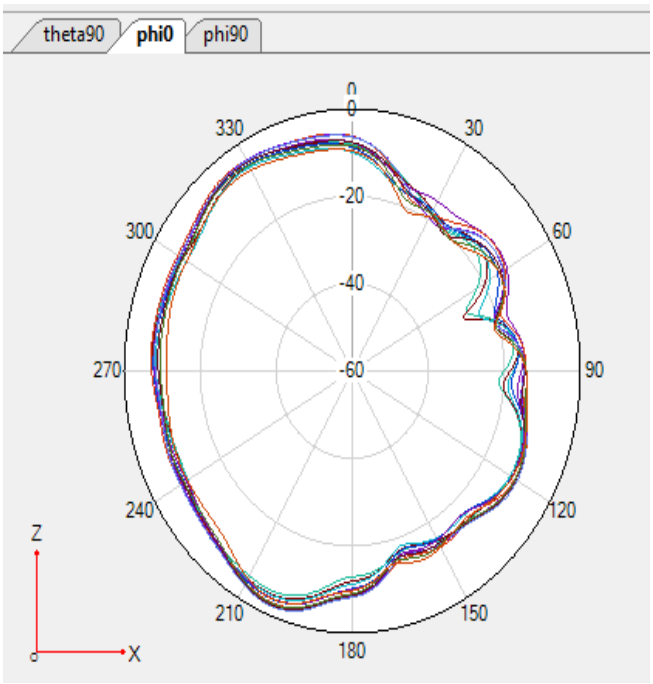
UNFOLD_MHB_DRX_DPDT_DCS/W4/B3/B4/B66/N3/N4/N66 Phi=0deg



UNFOLD_MHB_DRX_DPDT_DCS/W4/B3/B4/B66/N3/N4/N66 Phi=90deg



UNFOLD_MHB_DRX_DPDT_DCS/W4/B3/B4/B66/N3/N4/N66 Theta=90deg



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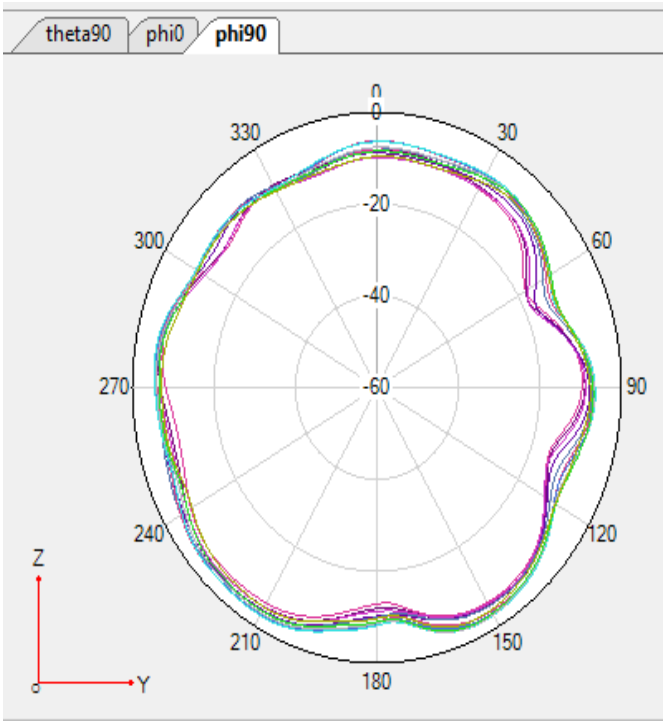
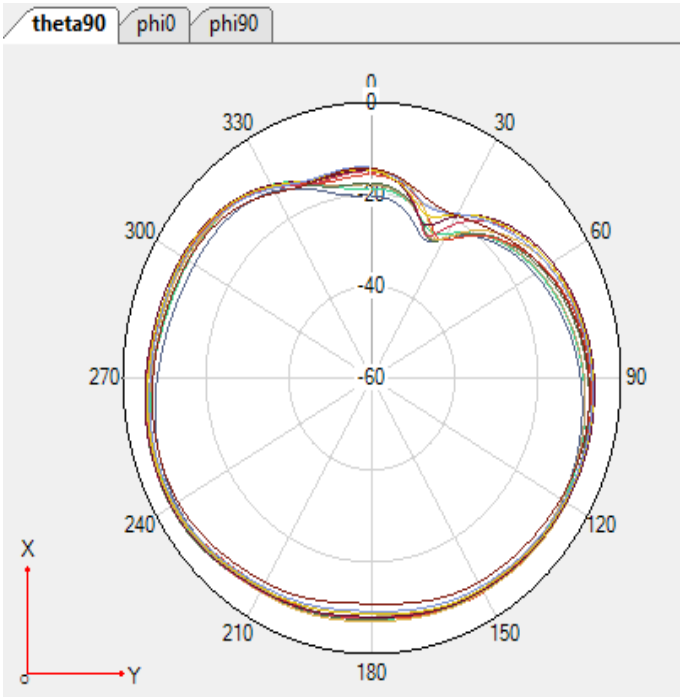
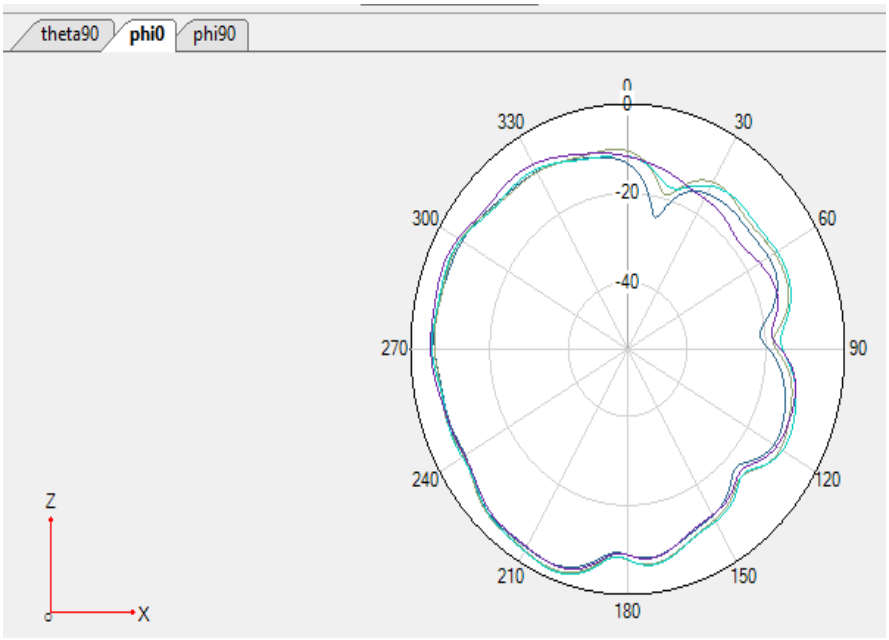


FOLD_MHB_DRX_DPDT_B7/B38/B41/N7/N83/N41 Phi=90deg

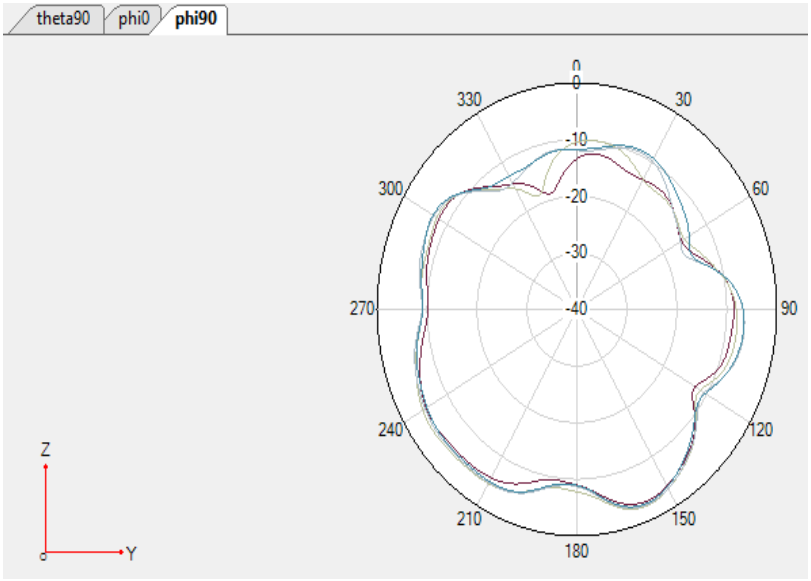


FOLD_MHB_DRX_DPDT_B7/B38/B41/N7/N83/N41 Theta=90deg

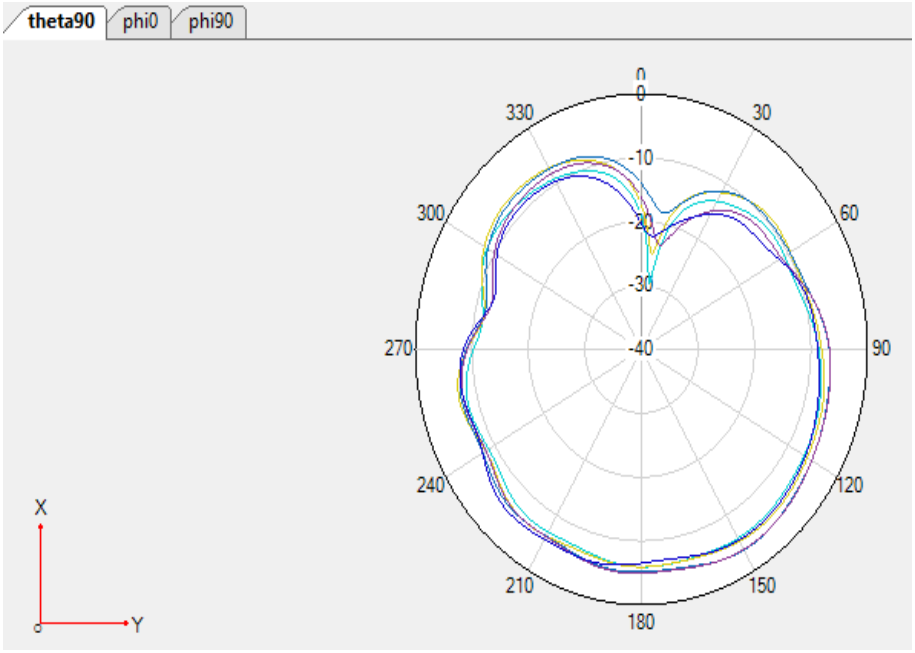
ANT3



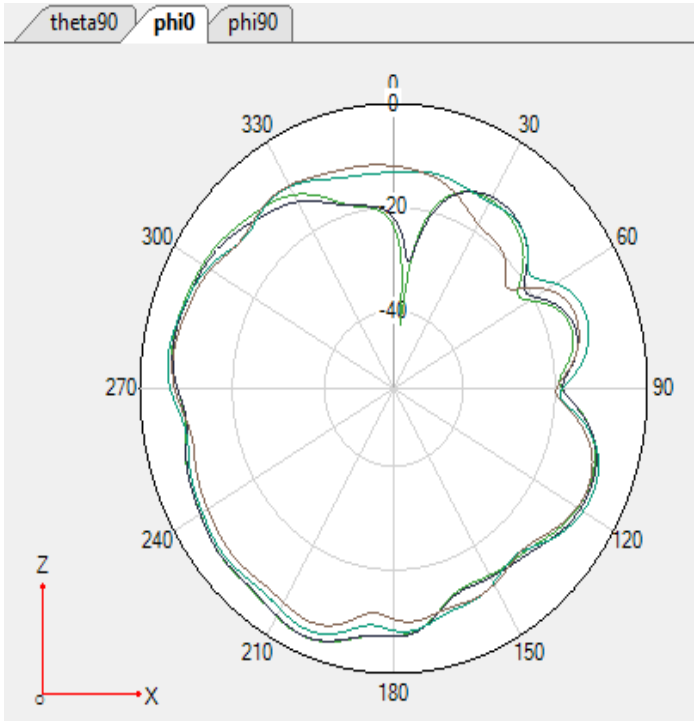
UNFOLD_MHB_DRX_DPDT_B40/N40 Phi=0deg



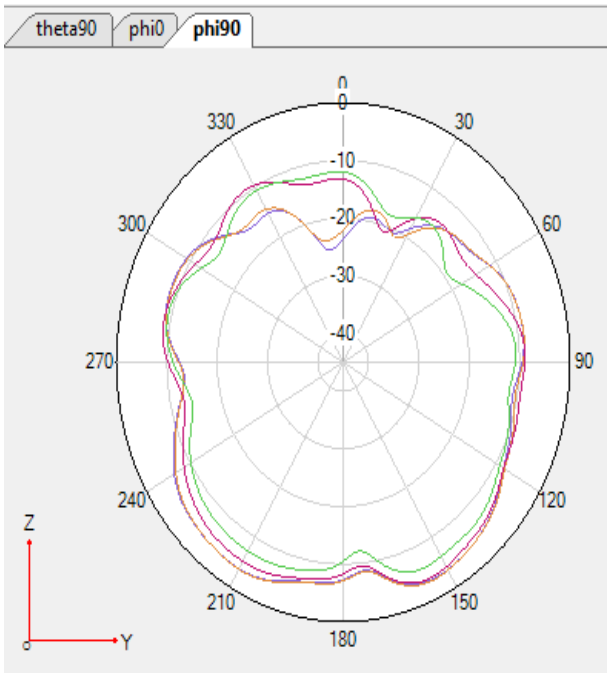
UNFOLD_MHB_DRX_DPDT_B40/N40 Phi=90deg



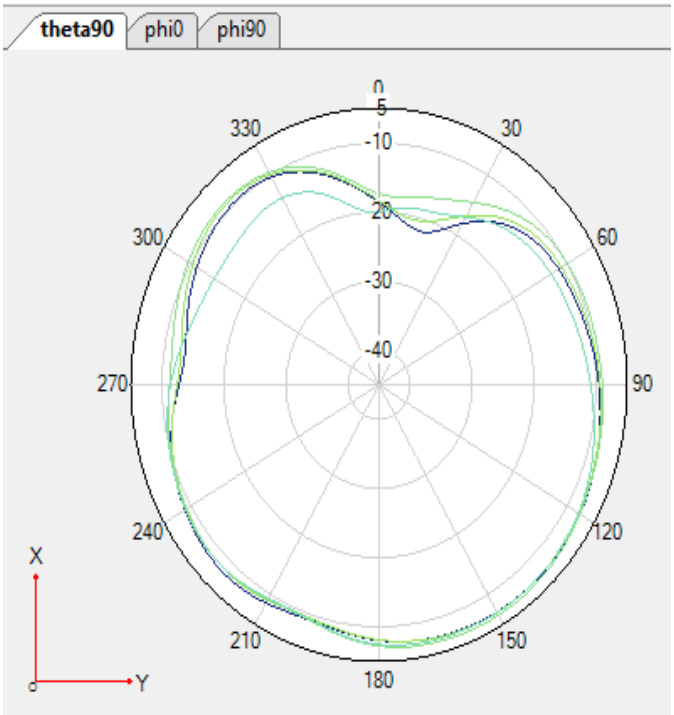
UNFOLD_MHB_DRX_DPDT_B40/N40 Theta=90deg



FOLD_MHB_DRX_DPDT_B40/N40 Phi=0deg

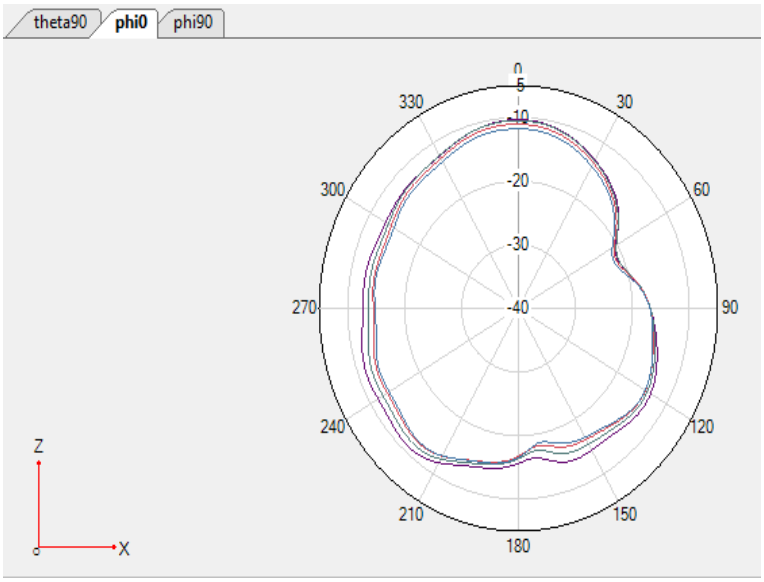


FOLD_MHB_DRX_DPDT_B40/N40 Phi=90deg

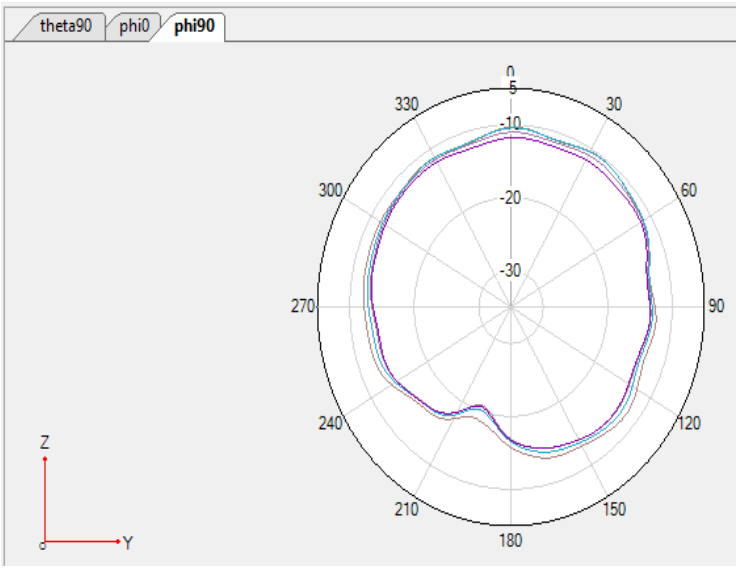


FOLD_MHB_DRX_DPDT_B40/N40 Theta=90deg

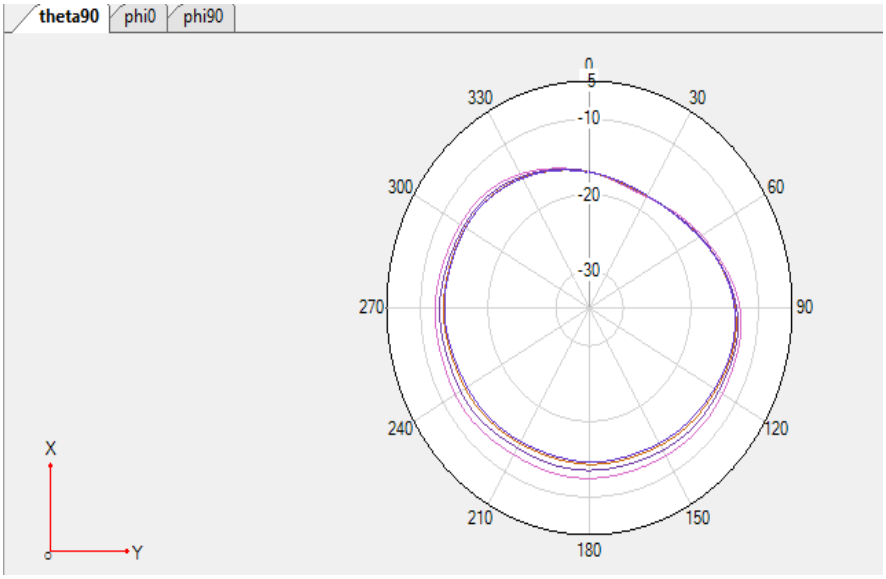
ANT4



UNFOLD_MHB_DRX_DPDT_GSM850/W5/B5/N5 Phi=0deg



UNFOLD_MHB_DRX_DPDT_GSM850/W5/B5/N5 Phi=90deg



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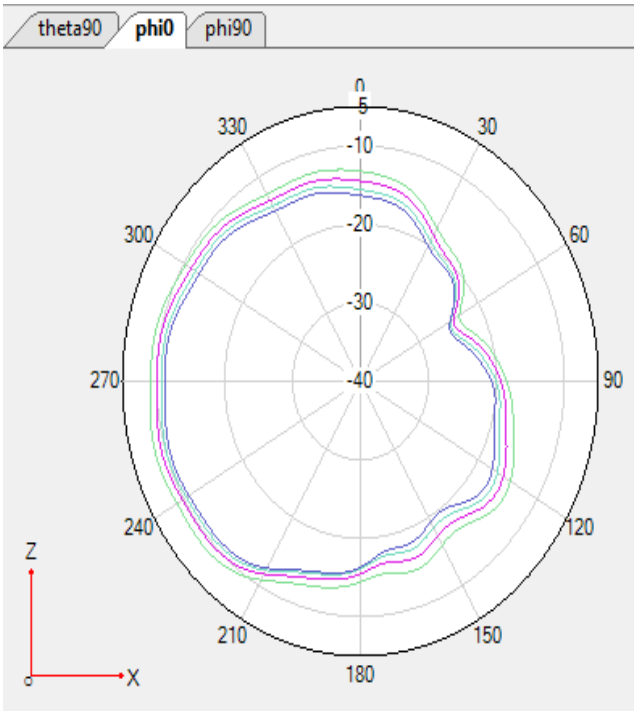

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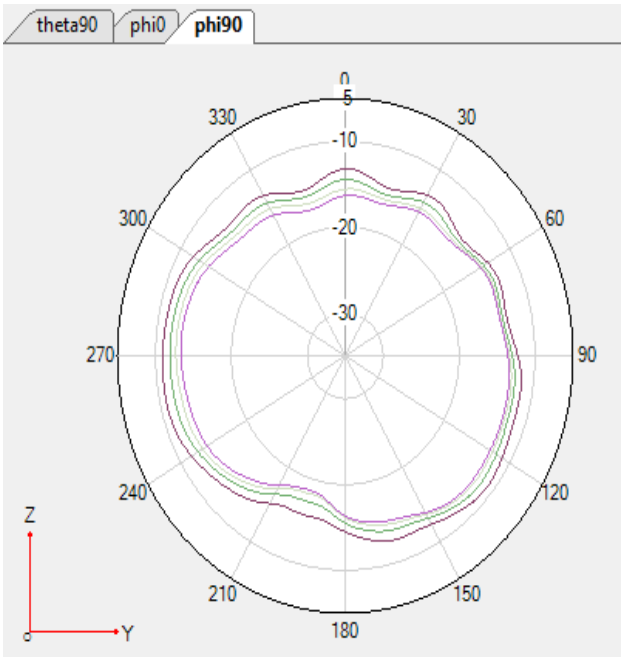

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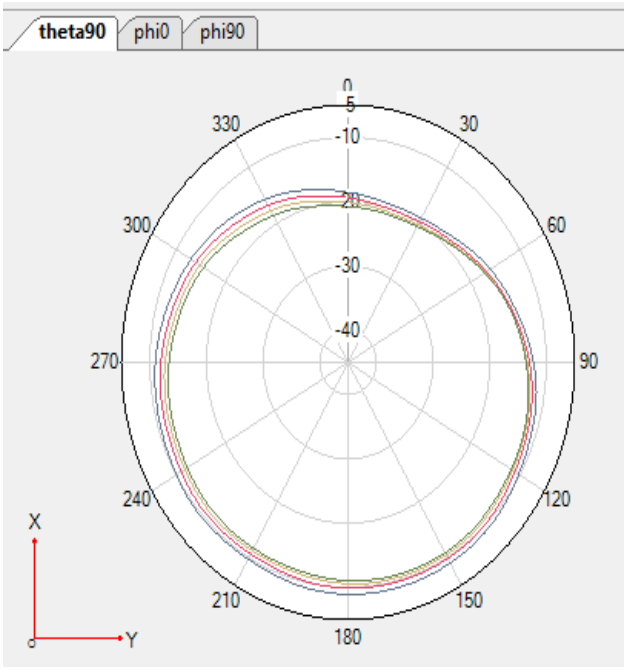

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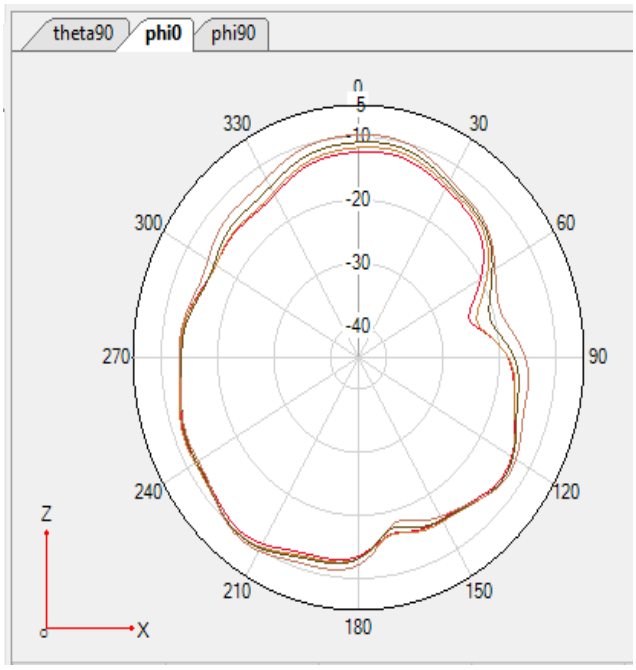
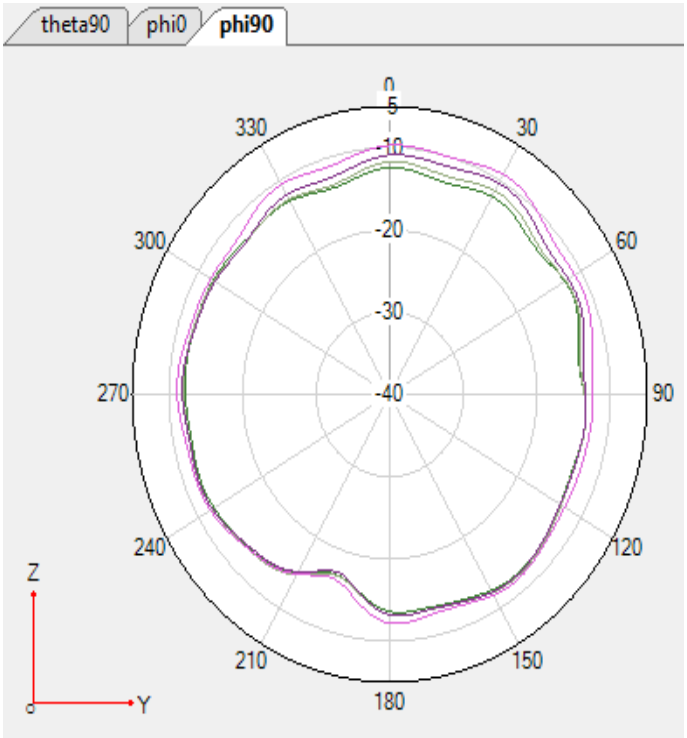
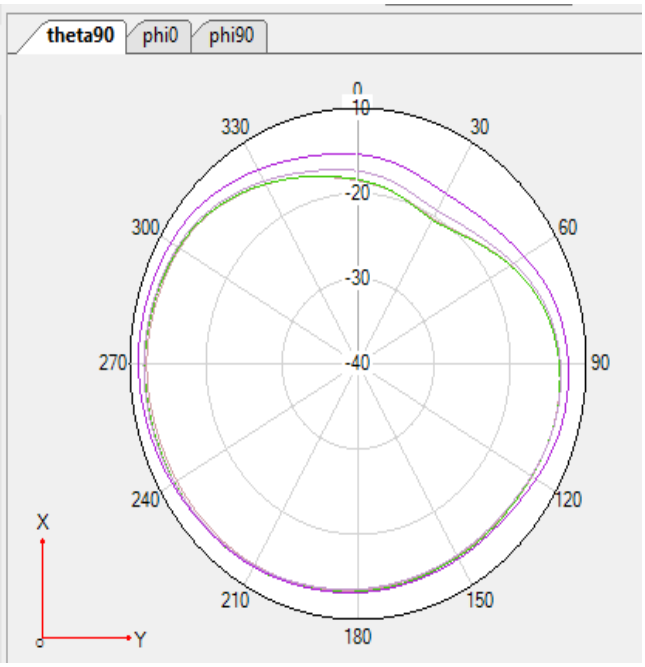
ANT4



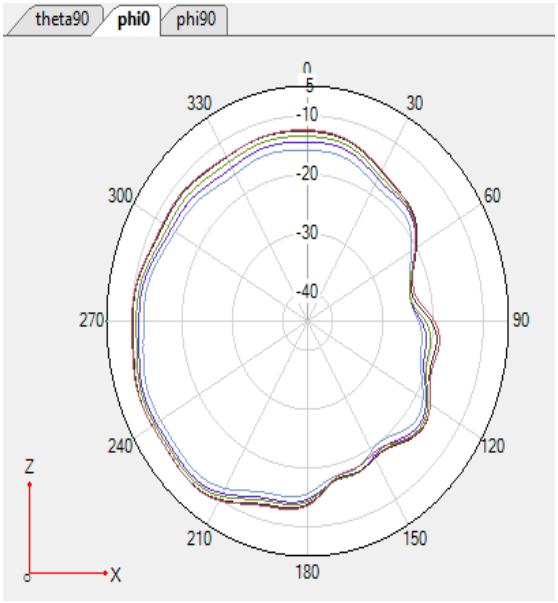
UNFOLD_MHB_DRX_DPDT_GSM900/W8/B8/N8 Phi=0deg



UNFOLD_MHB_DRX_DPDT_GSM900/W8/B8/N8 Phi=90deg



UNFOLD_MHB_DRX_DPDT_GSM900/W8/B8/N8 Theta=90deg



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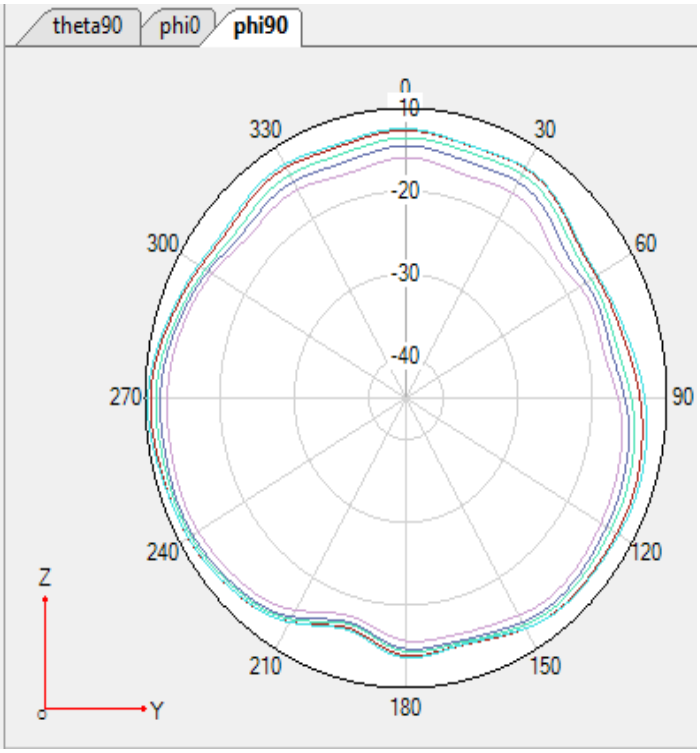

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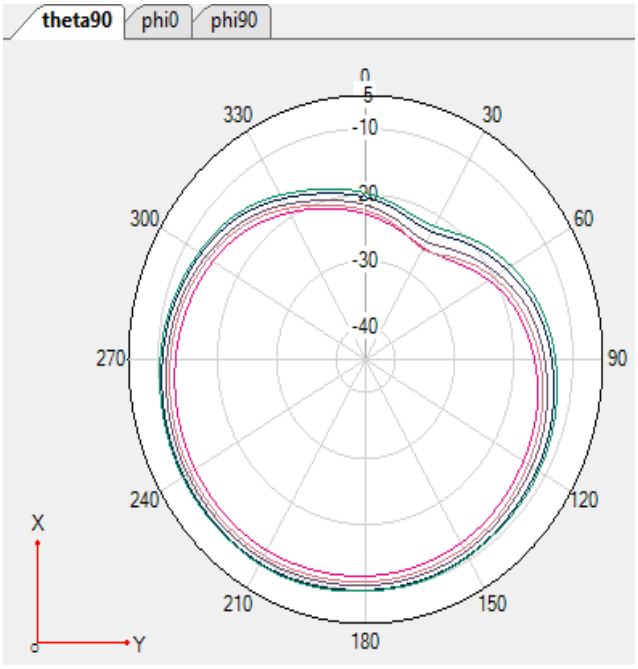
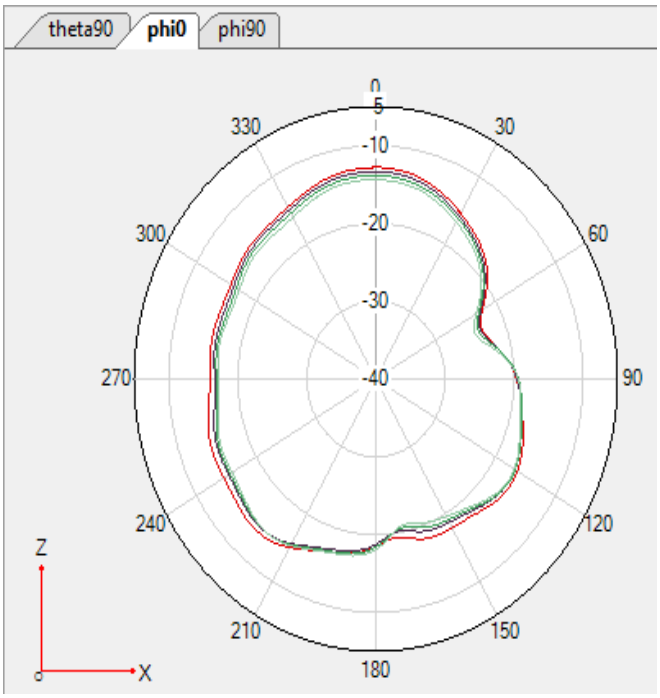
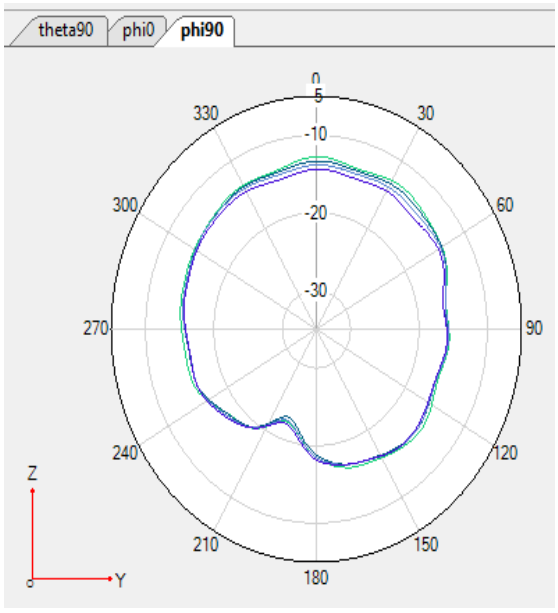


FOLD_MHB_DRX_DPDT_GSM900/W8/B8/N8 Theta=90deg

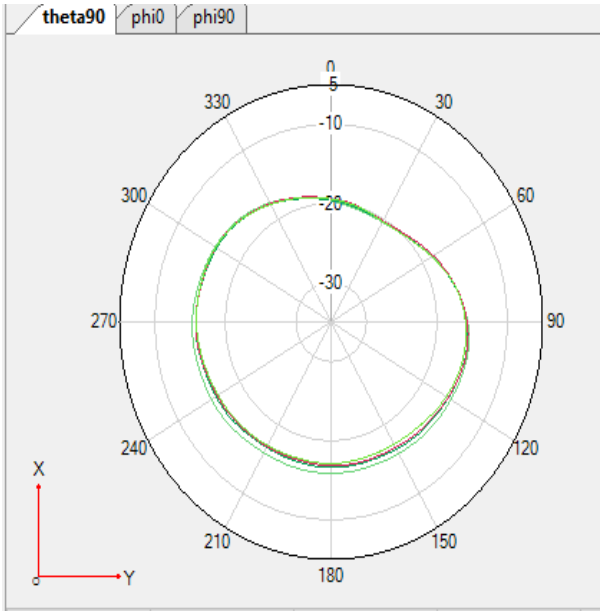
ANT4



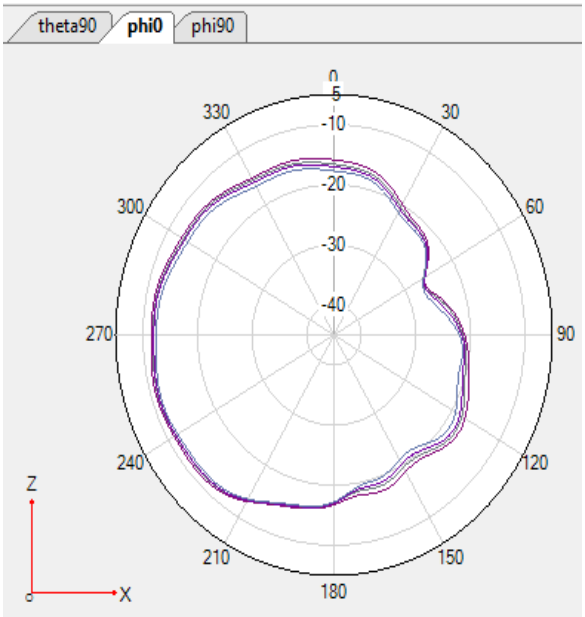
UNFOLD_MHB_DRX_DPDT_B20/N20 Phi=0deg



UNFOLD_MHB_DRX_DPDT_B20/N20 Phi=90deg



UNFOLD_MHB_DRX_DPDT_B20/N20 Theta=90deg



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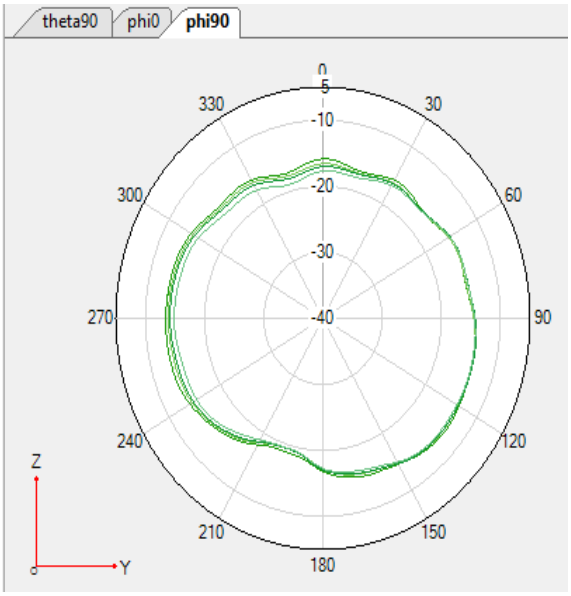
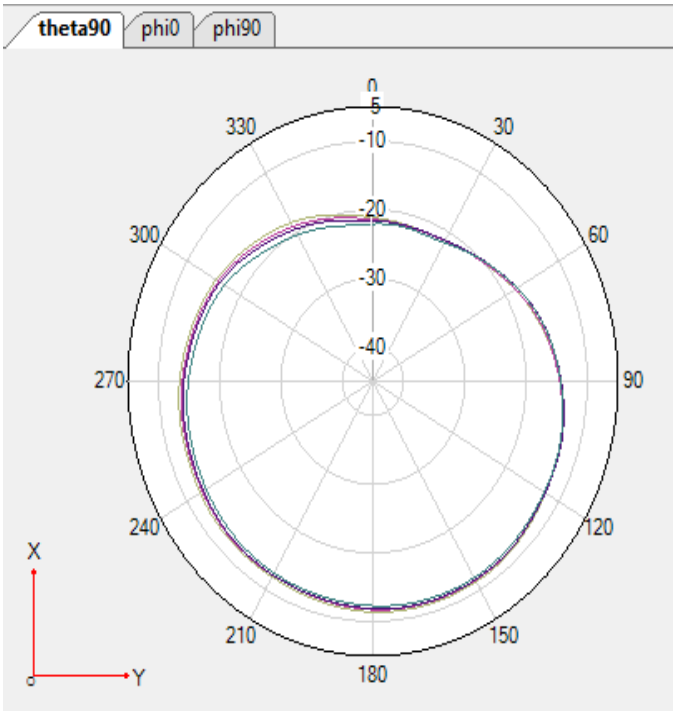
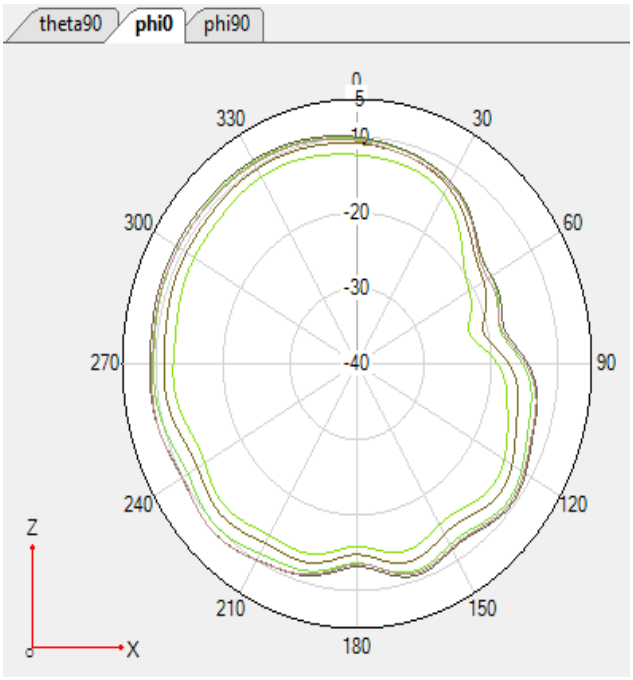


FOLD_MHB_DRX_DPDT_B20/N20 Phi=90deg

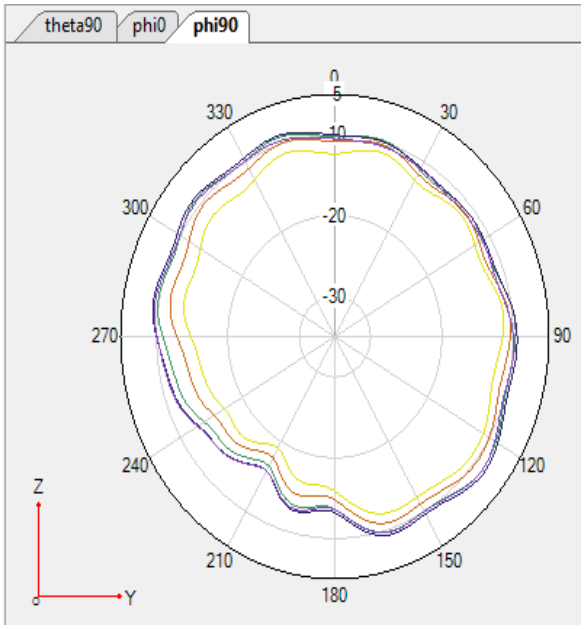


FOLD_MHB_DRX_DPDT_B20/N20 Theta=90deg

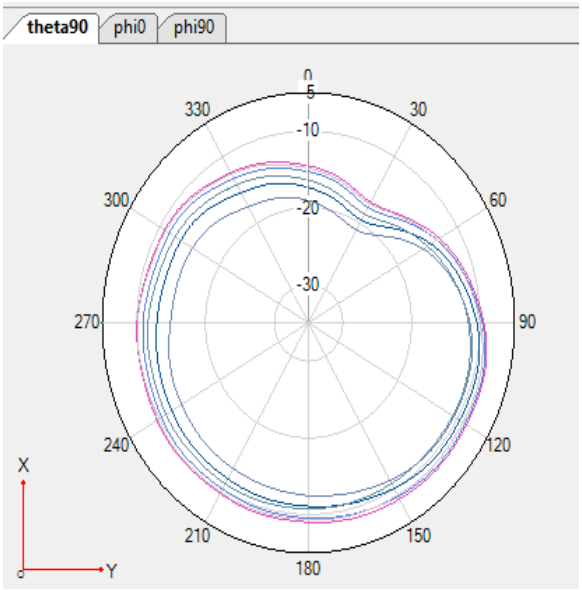
ANT4



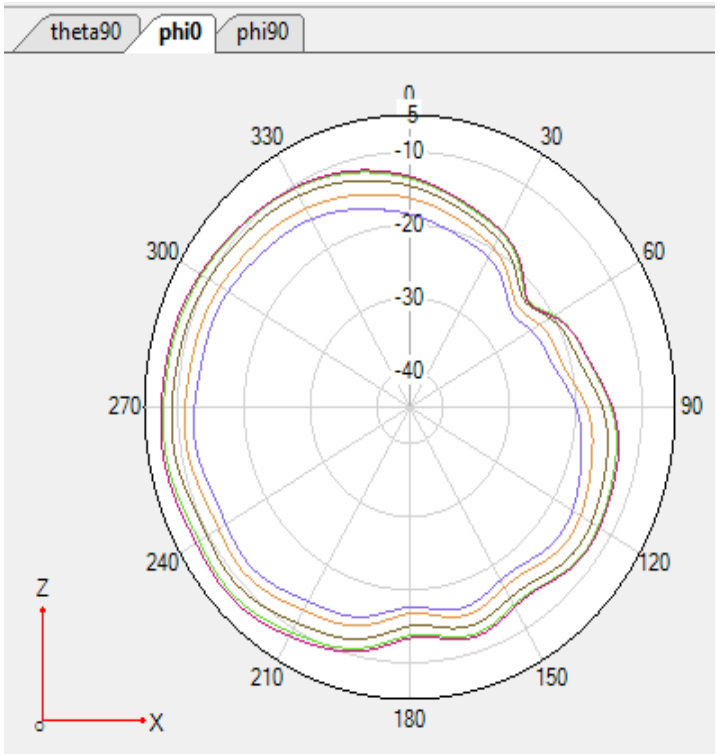
UNFOLD_MHB_DRX_DPDT_B28/B12/B17/N12/N28 Phi=0deg



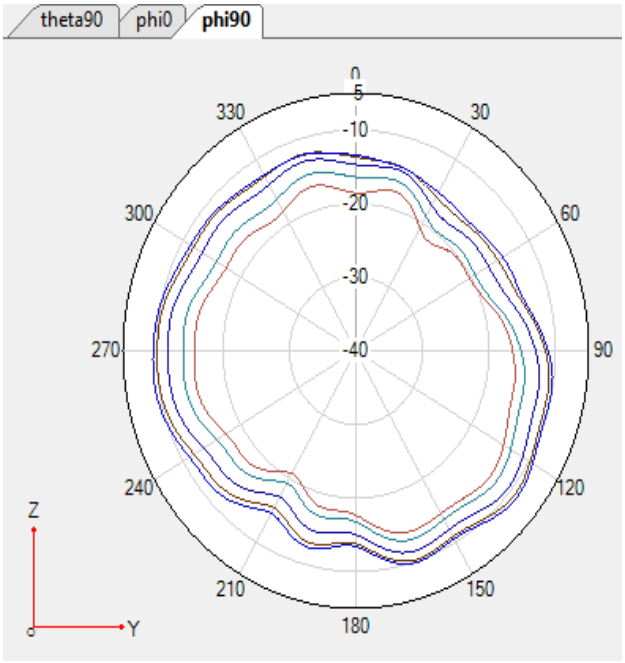
UNFOLD_MHB_DRX_DPDT_B28/B12/B17/N12/N28 Phi=90deg



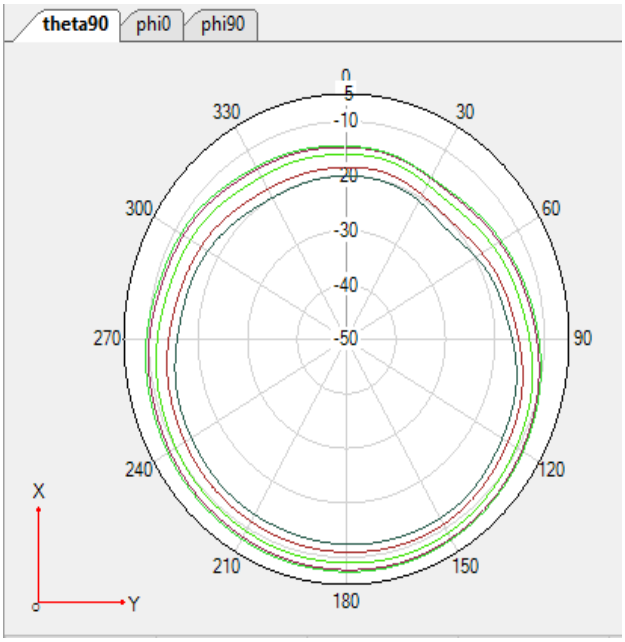
UNFOLD_MHB_DRX_DPDT_B28/B12/B17/N12/N28 Theta=90deg



FOLD_MHB_DRX_DPDT_B28/B12/B17/N12/N28 Phi=0deg

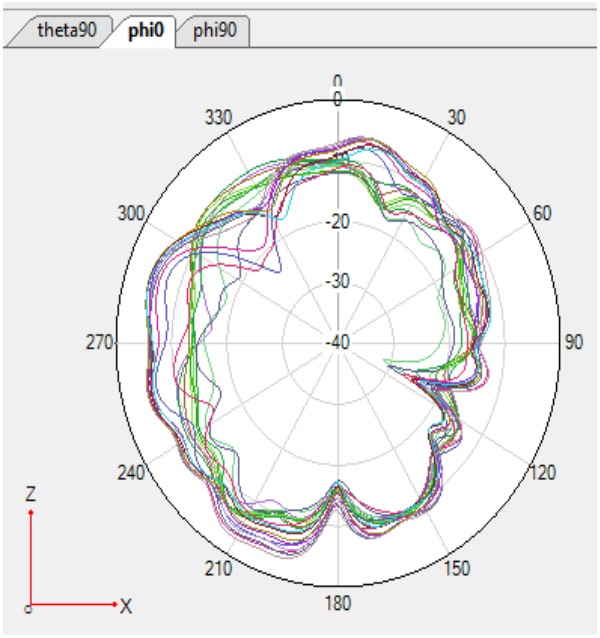


FOLD_MHB_DRX_DPDT_B28/B12/B17/N12/N28 Phi=90deg

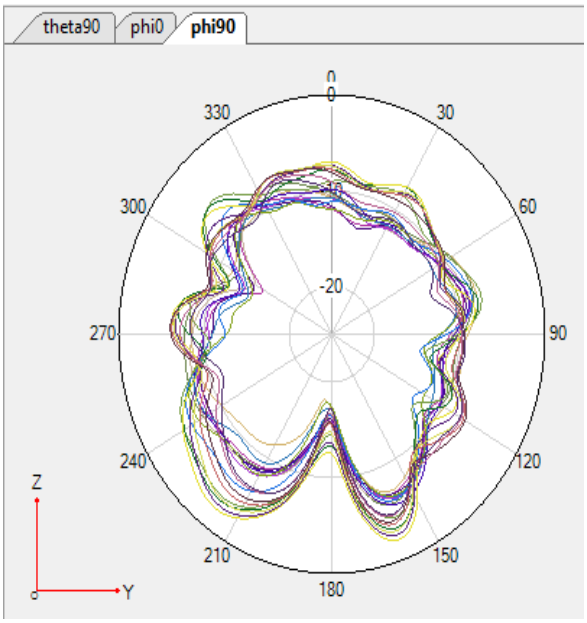


FOLD_MHB_DRX_DPDT_B28/B12/B17/N12/N28 Theta=90deg

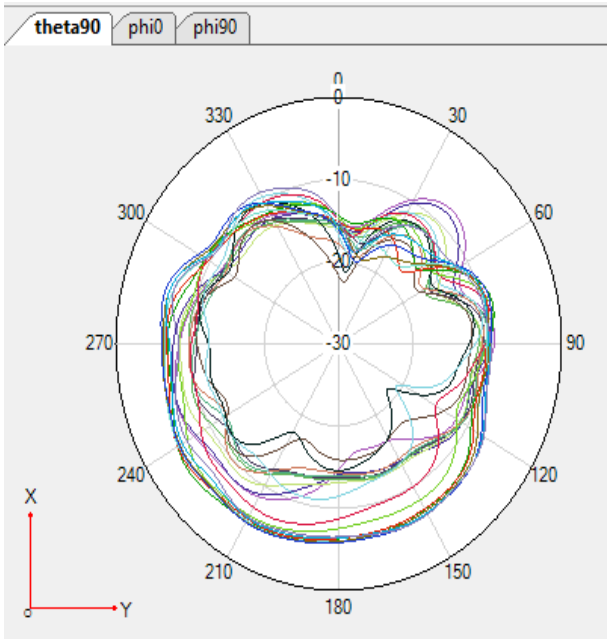
ANT5



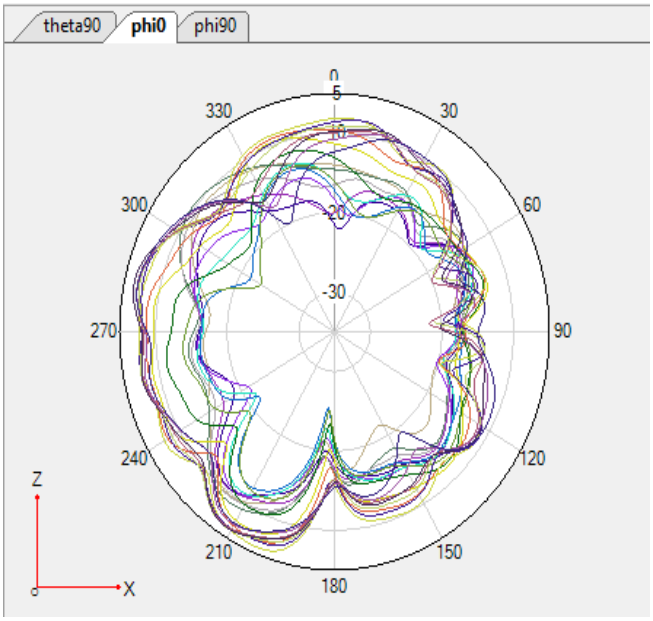
UNFOLD_N77/78/B42_DRX_MIMO Phi=0deg



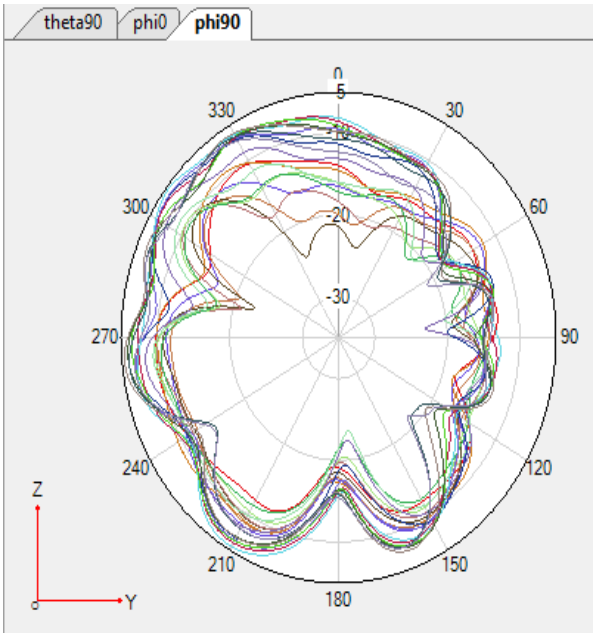
UNFOLD_N77/78/B42_DRX_MIMO Phi=90deg



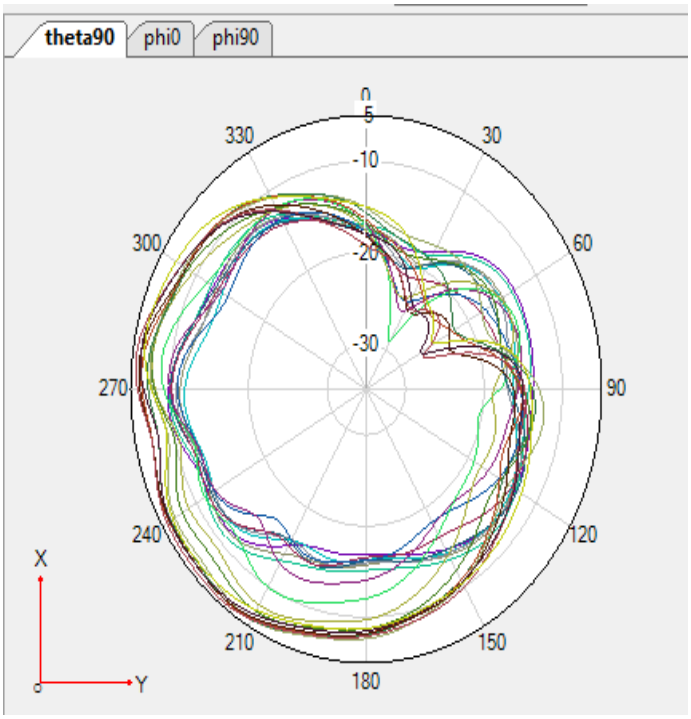
UNFOLD_N77/78/B42_DRX_MIMO Theta=90deg



FOLD_N77/78/B42_DRX_MIMO Phi=0deg

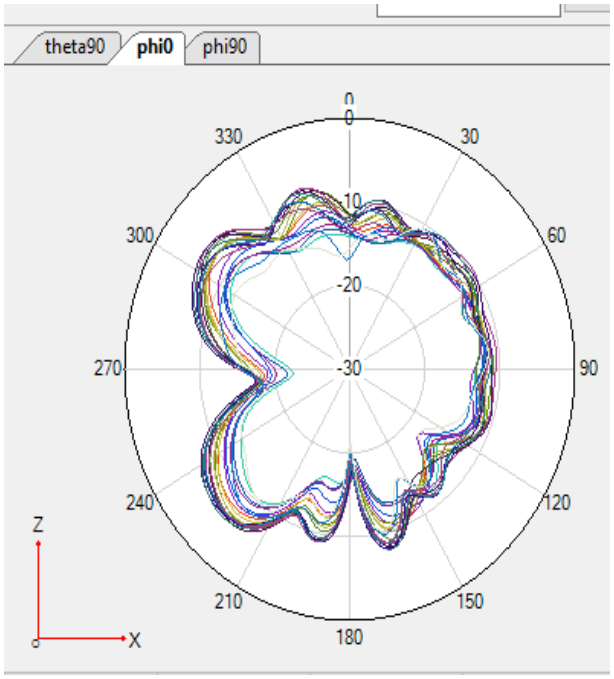


FOLD_N77/78/B42_DRX_MIMO Phi=90deg

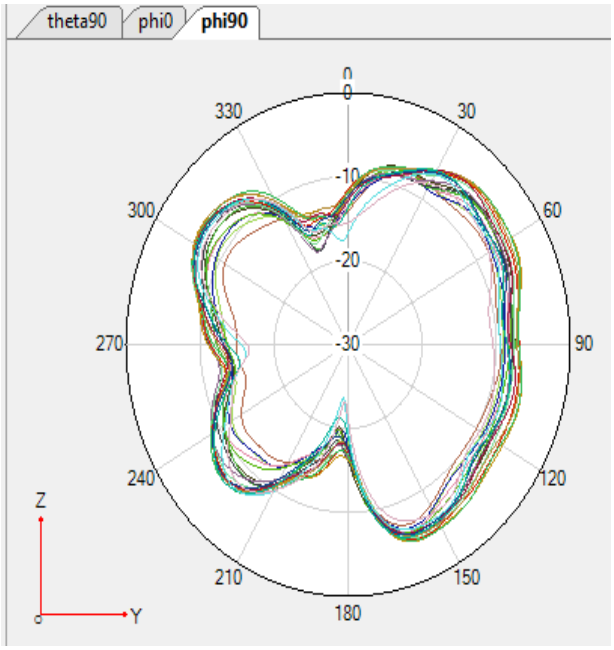


FOLD_N77/78/B42_DRX_MIMO Theta=90deg

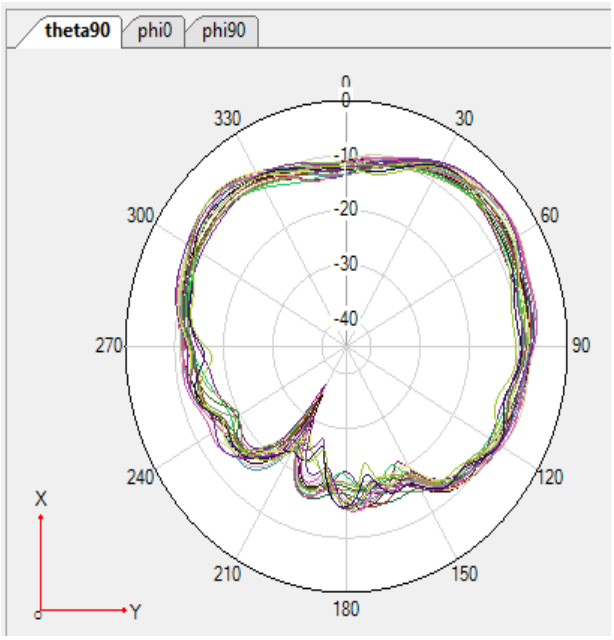
ANT6



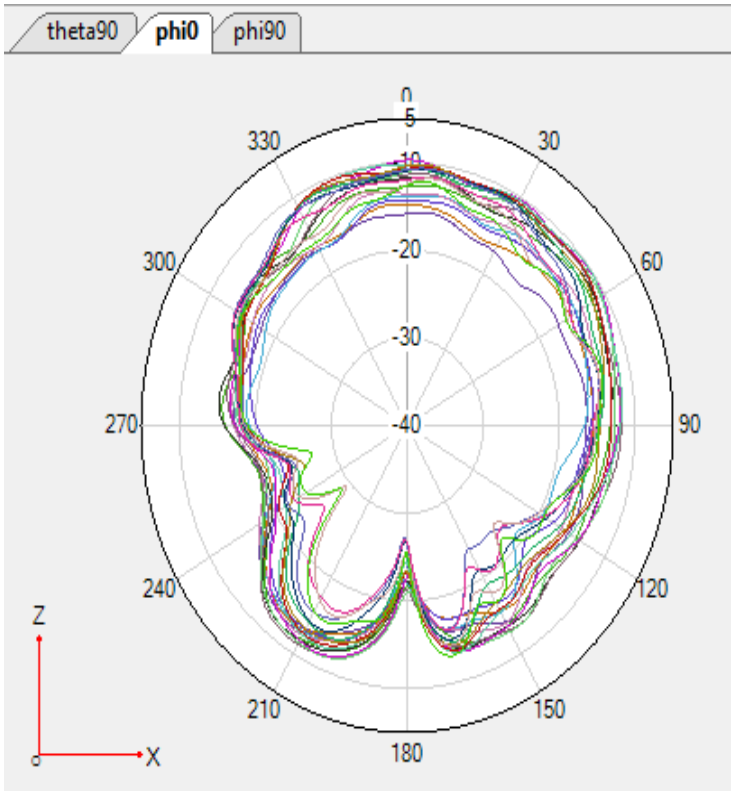
UNFOLD_N77/78/B42_DRX Phi=0deg



UNFOLD_N77/78/B42_DRX Phi=90deg



UNFOLD_N77/78/B42_DRX Theta=90deg



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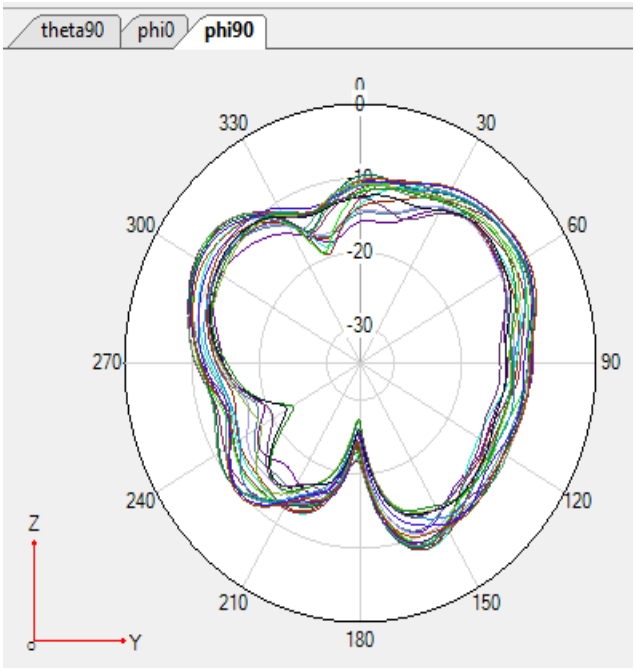
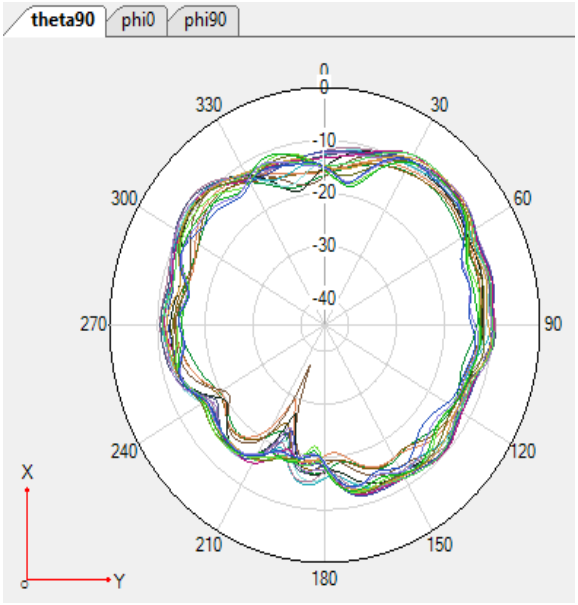
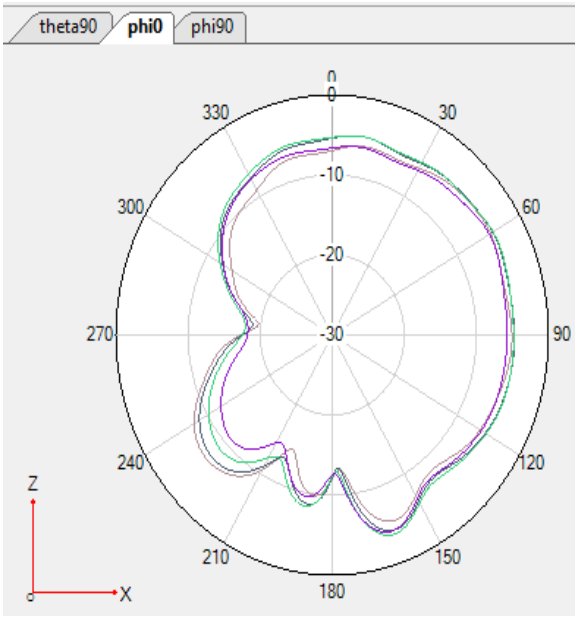


FOLD_N77/78/B42_DRX Phi=90deg

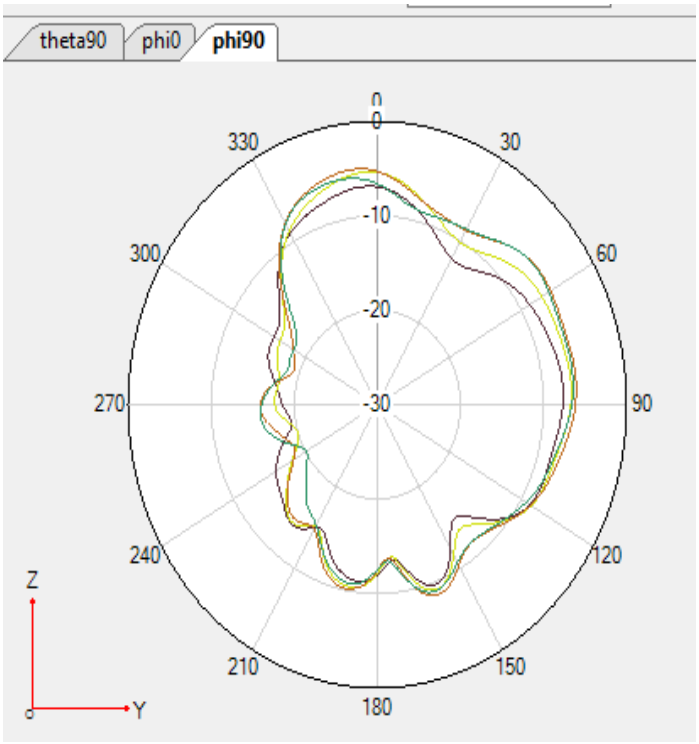


FOLD_N77/78/B42_DRX Theta=90deg

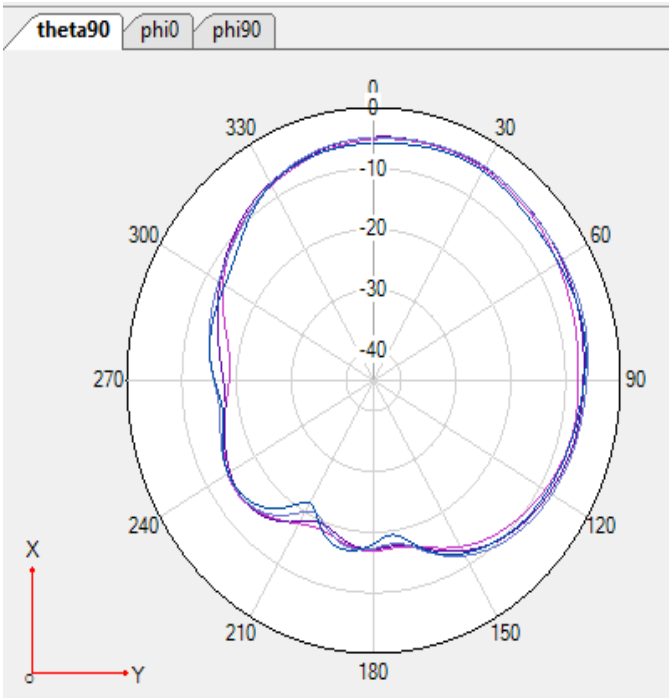
ANT6



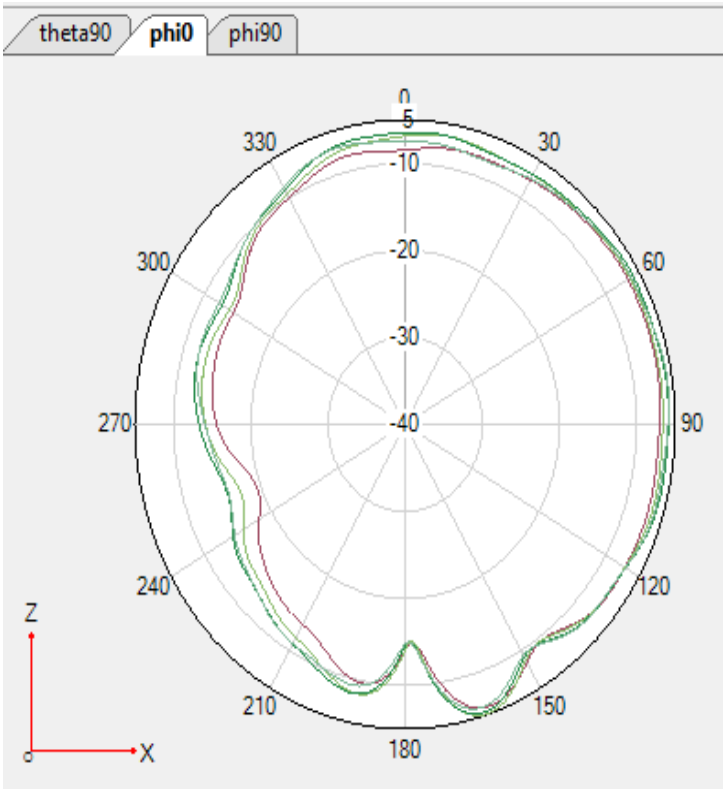
UNFOLD_WIFI_2.4G_MIMO2 Phi=0deg



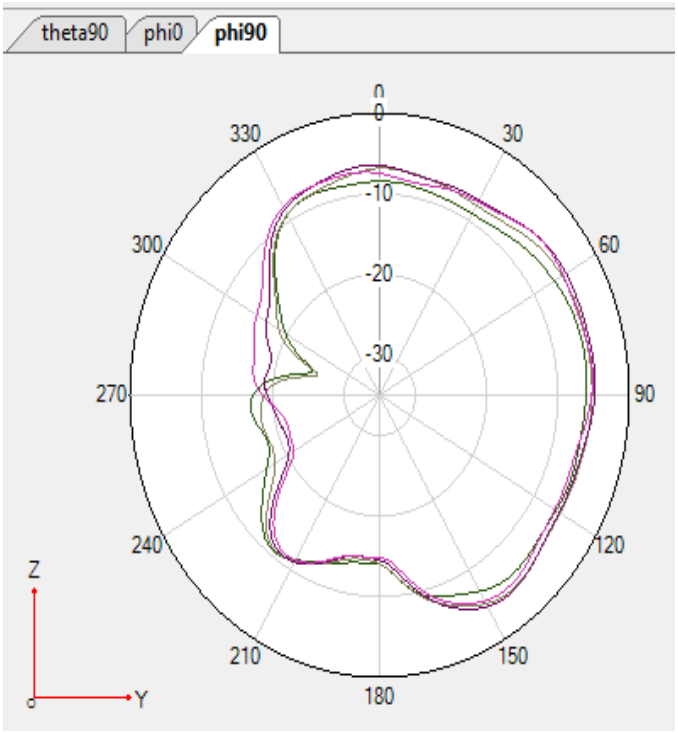
UNFOLD_WIFI_2.4G_MIMO2 Phi=90deg



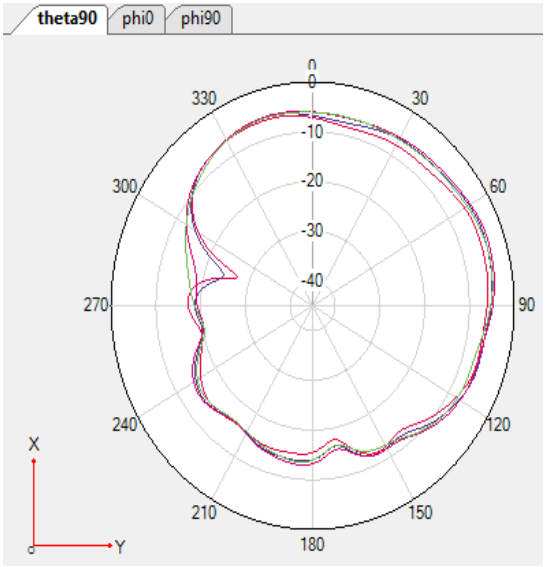
UNFOLD_WIFI_2.4G_MIMO2 Theta=90deg



FOLD_WIFI_2.4G_MIMO2 Phi=0deg

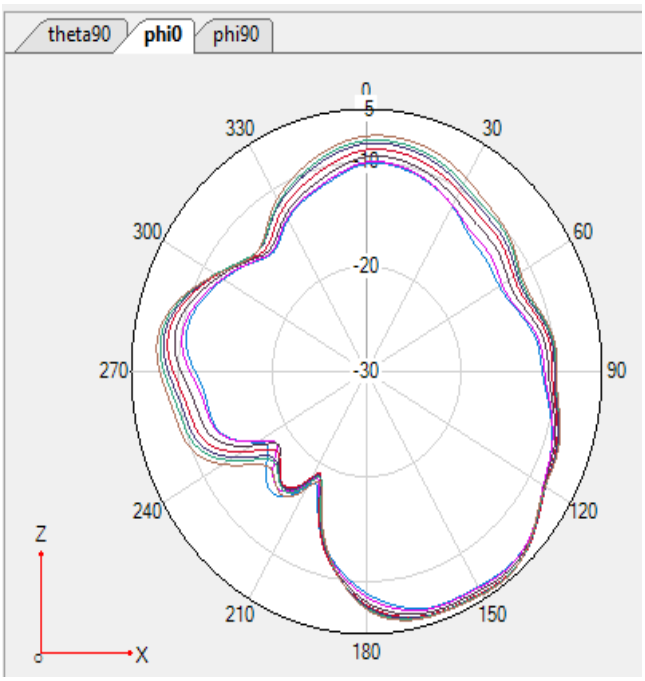


FOLD_WIFI_2.4G_MIMO2 Phi=90deg

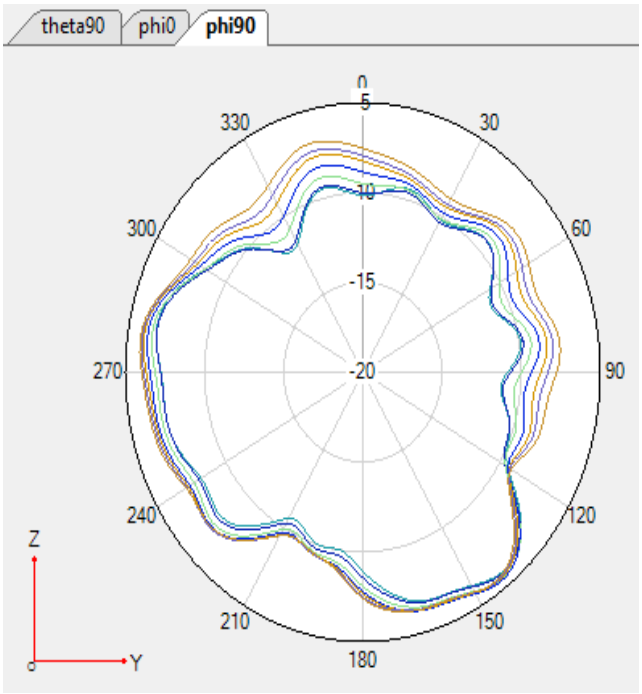


FOLD_WIFI_2.4G_MIMO2 Theta=90deg

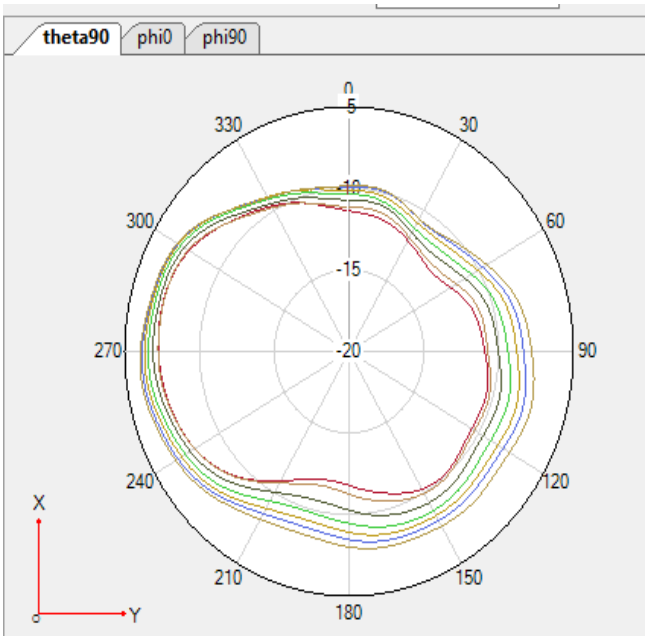
ANT7



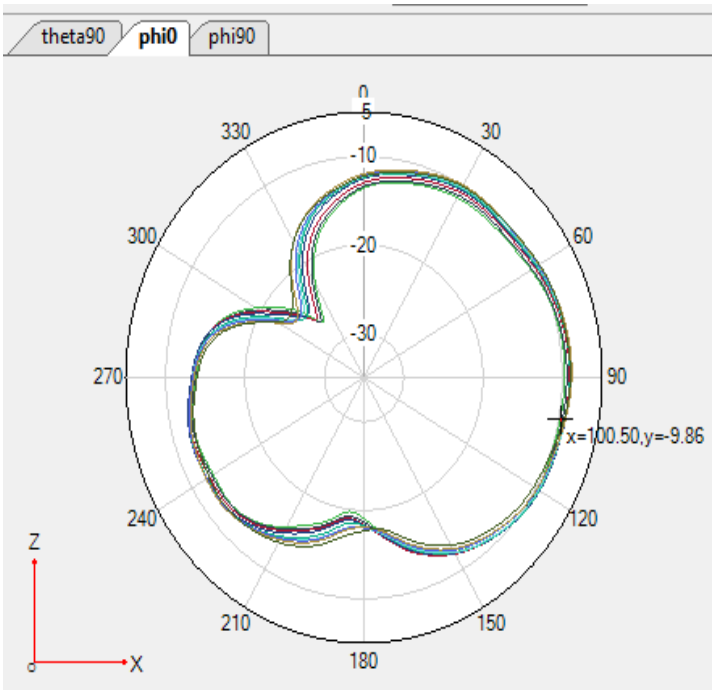
UNFOLD_LB_PRX_GSM850/W5/B5/B20/N5/N20 Phi=0deg



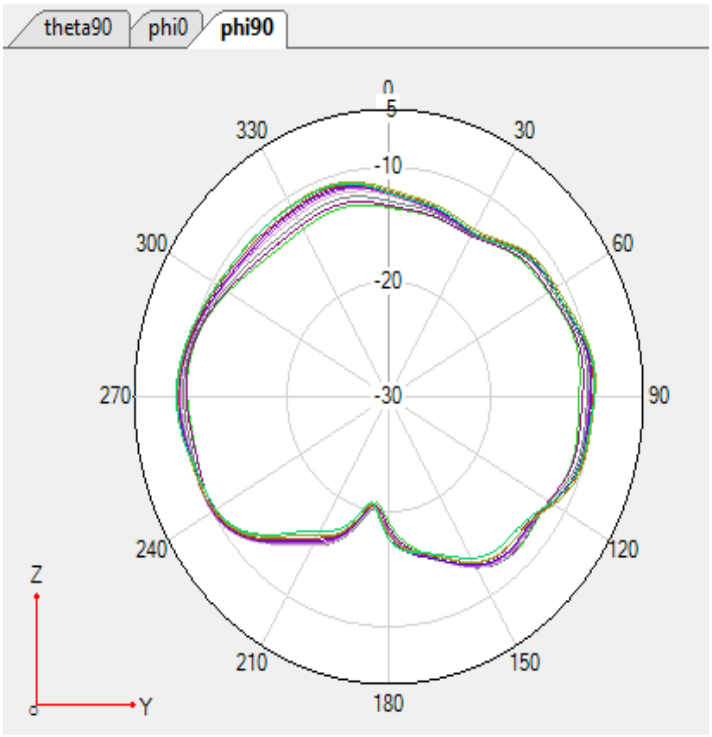
UNFOLD_LB_PRX_GSM850/W5/B5/B20/N5/N20 Phi=90deg



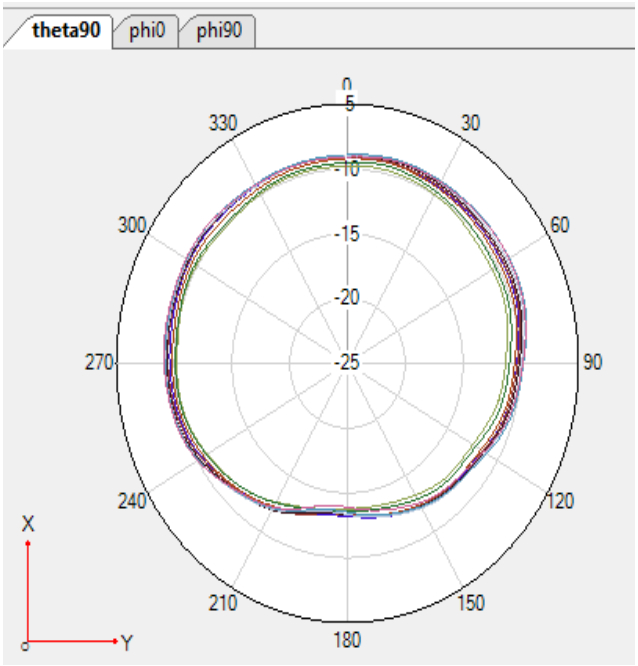
UNFOLD_LB_PRX_GSM850/W5/B5/B20/N5/N20 Theta=90deg



FOLD_LB_PRX_GSM850/W5/B5/B20/N5/N20 Phi=0deg

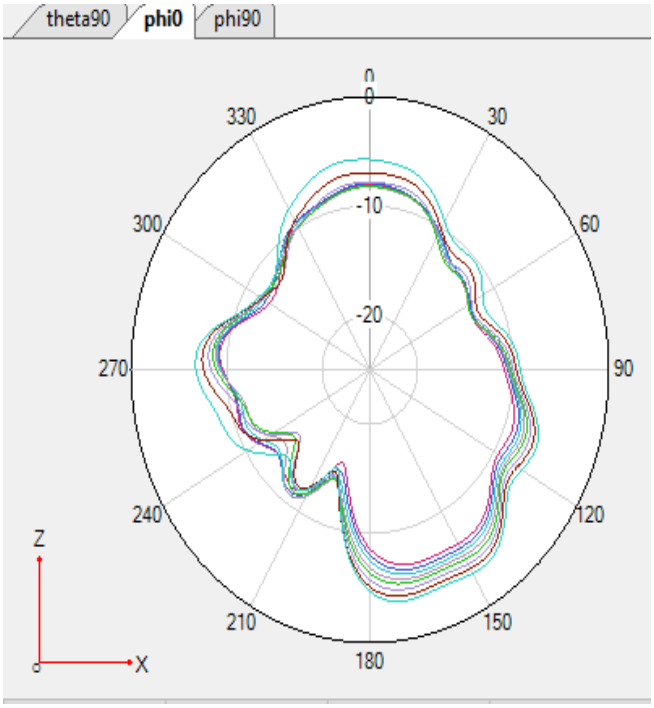


FOLD_LB_PRX_GSM850/W5/B5/B20/N5/N20 Phi=90deg

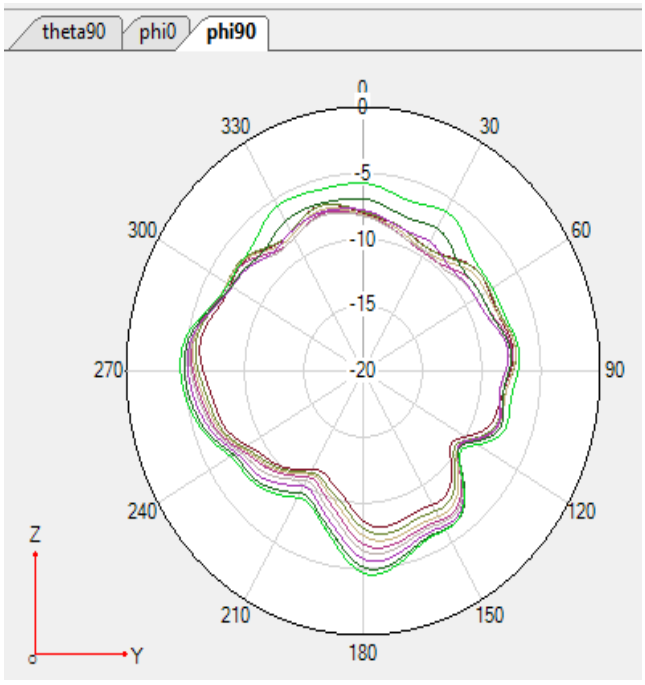


FOLD_LB_PRX_GSM850/W5/B5/B20/N5/N20 Theta=90deg

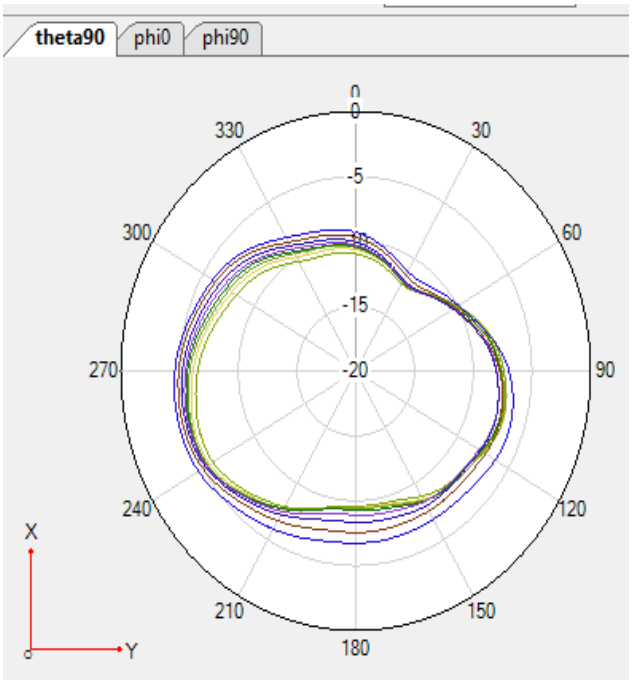
ANT7



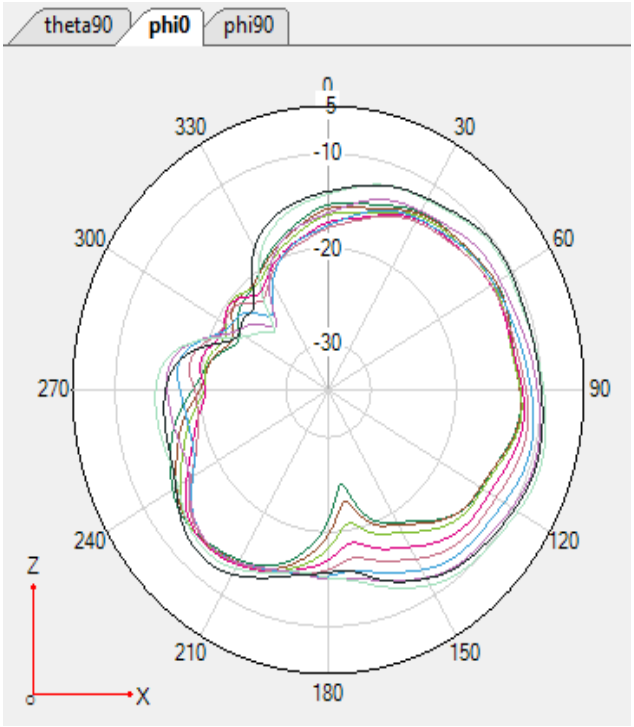
UNFOLD_LB_PRX_GSM900/W8/B8/N8 Phi=0deg



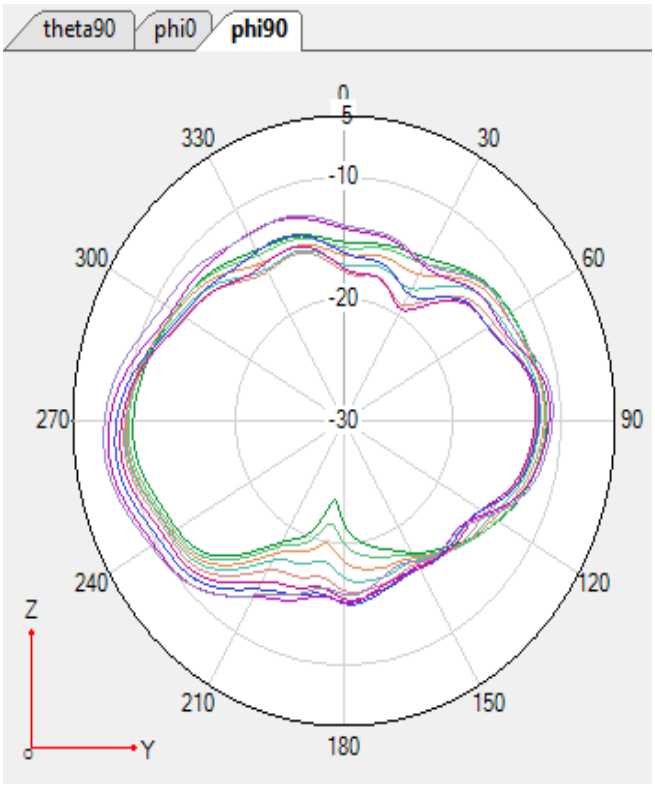
UNFOLD_LB_PRX_GSM900/W8/B8/N8 Phi=90deg



UNFOLD_LB_PRX_GSM900/W8/B8/N8 Theta=90deg



FOLD_LB_PRX_GSM900/W8/B8/N8 Phi=0deg



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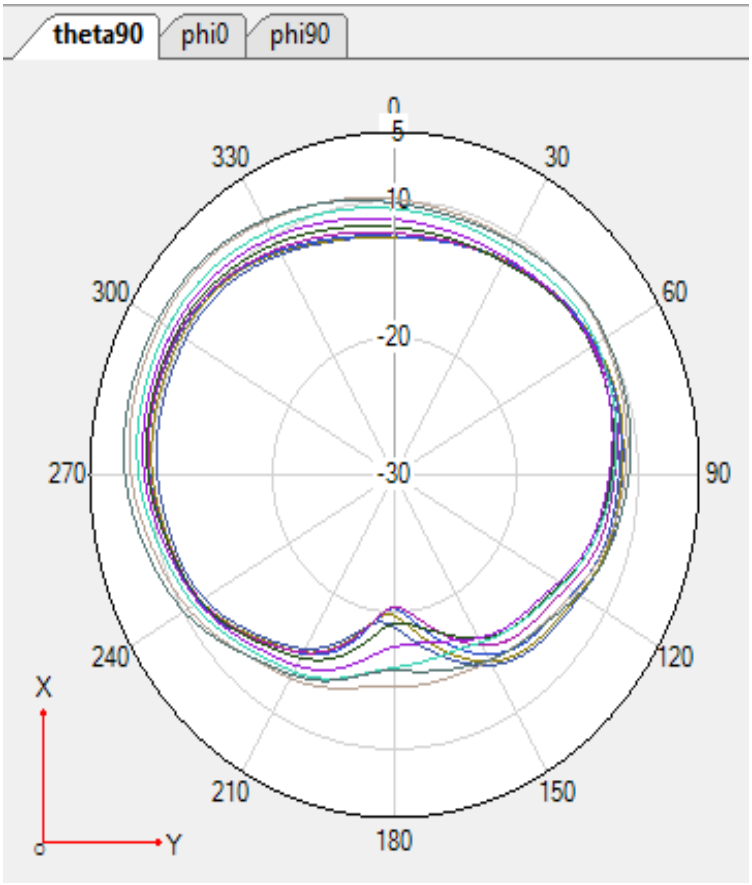

FOLD_LB_PRX_GSM900/W8/B8/N8 Theta=90deg

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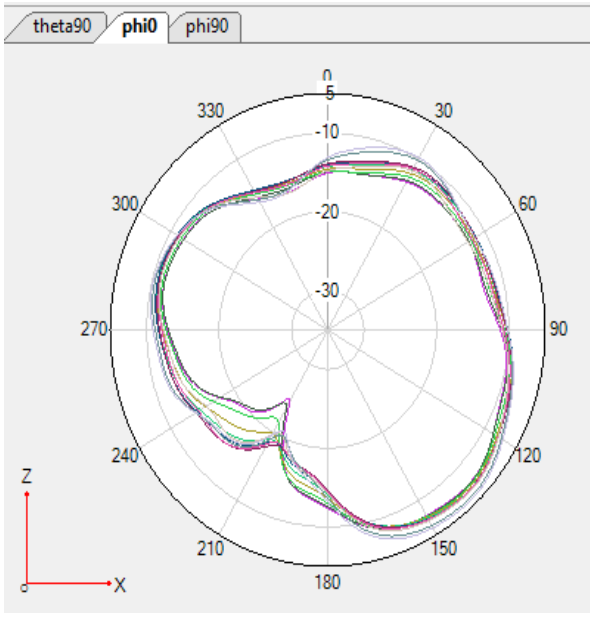

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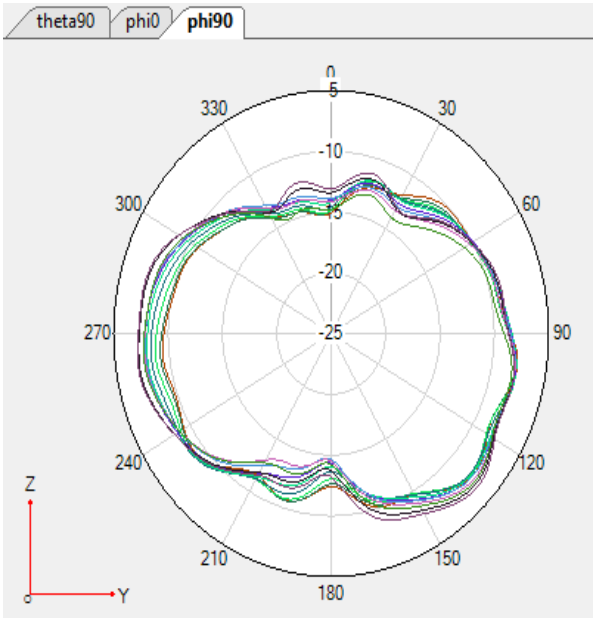

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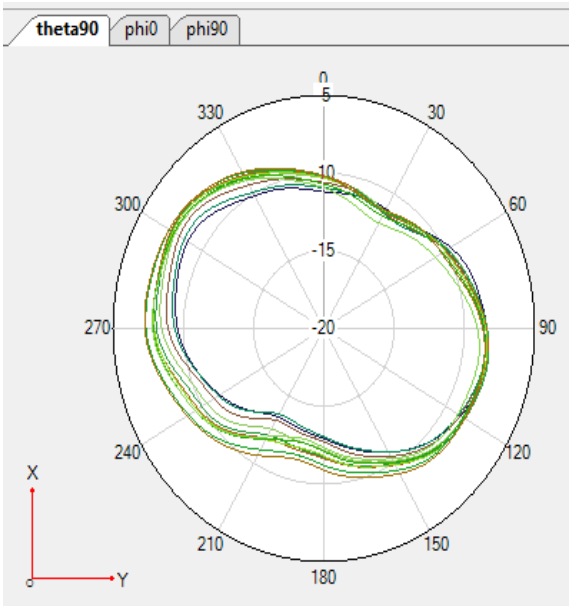

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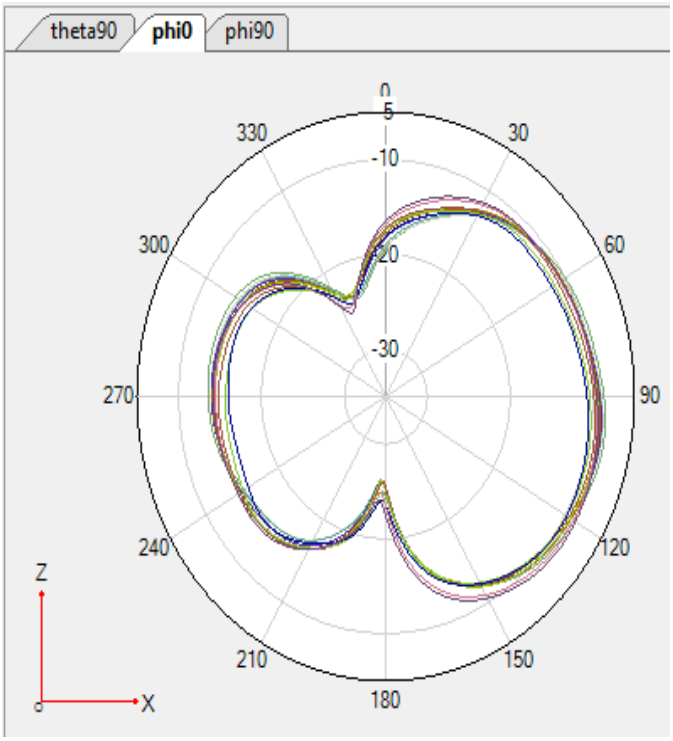

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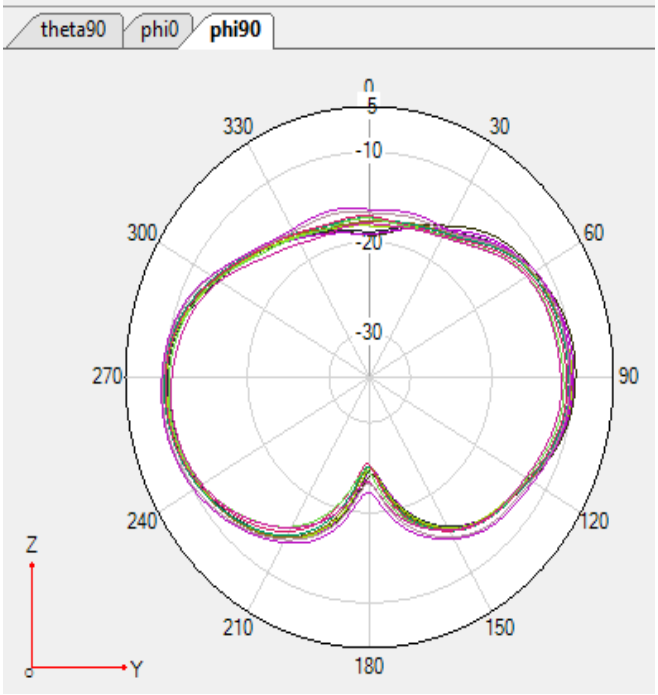

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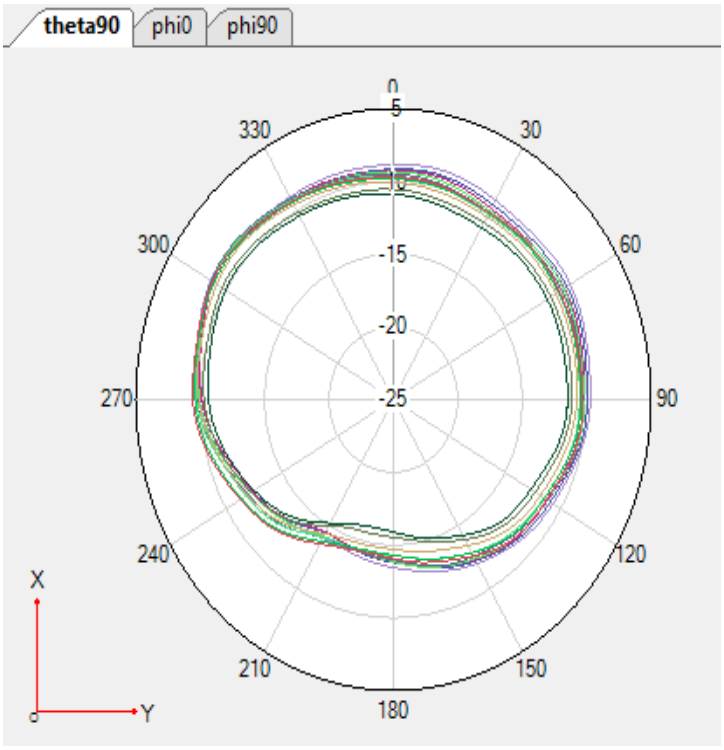

UNFOLD_LB_PRX_B12/B17/B28/N12/N28 Theta=90deg

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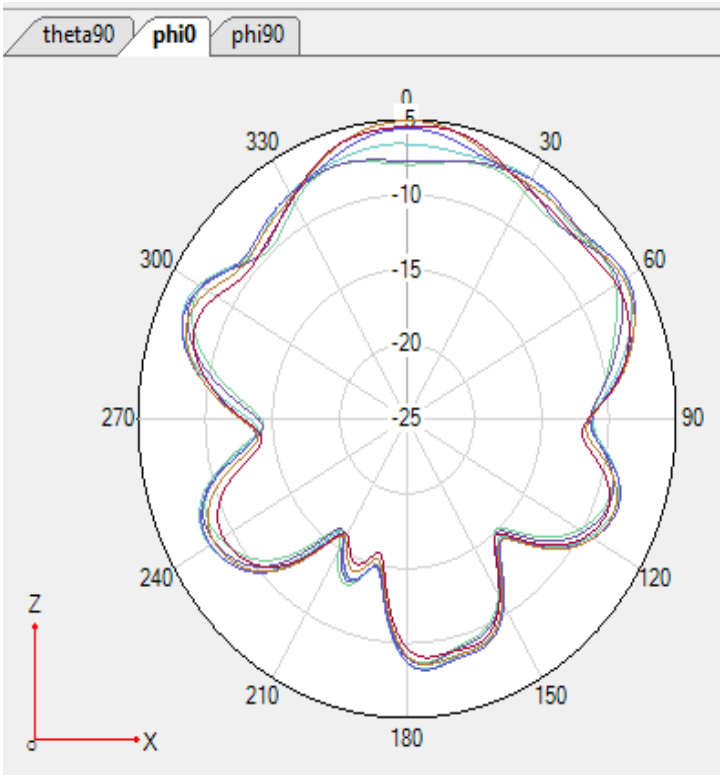

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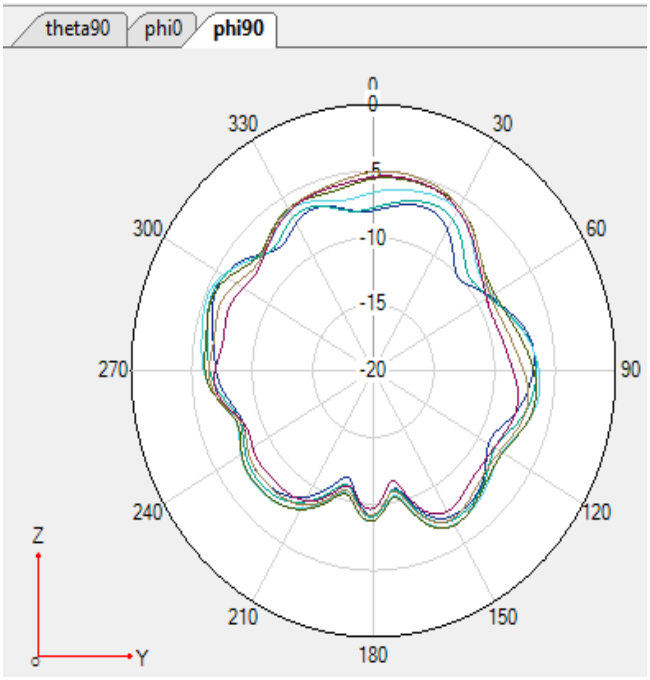

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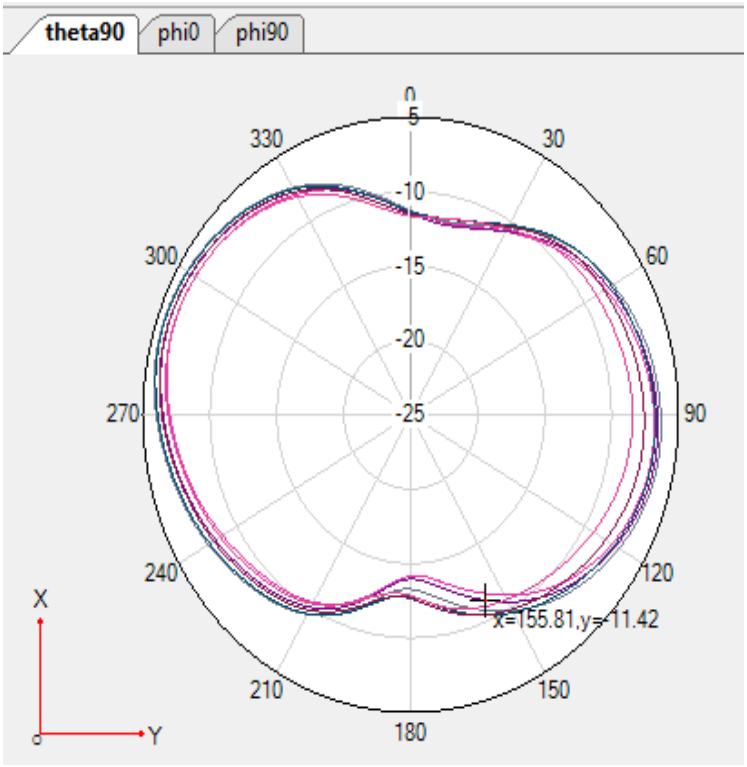

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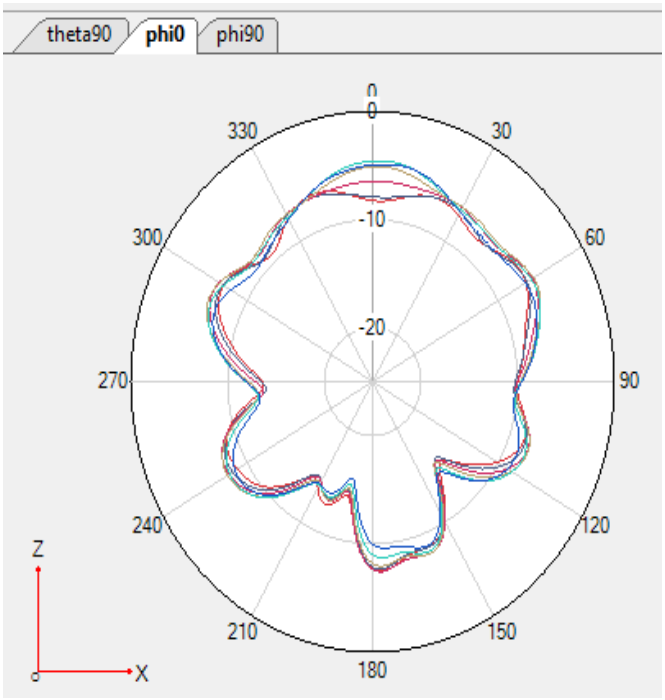

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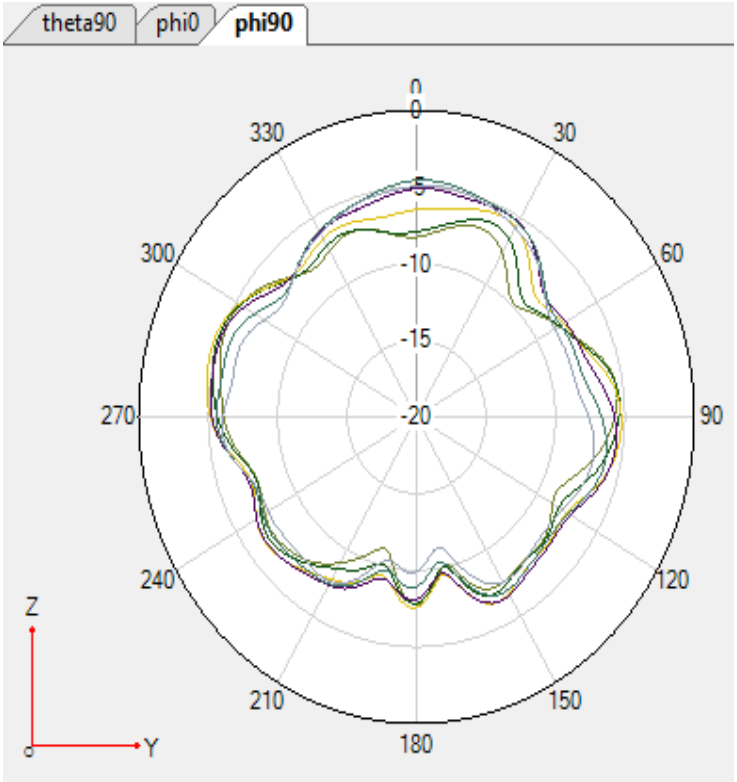

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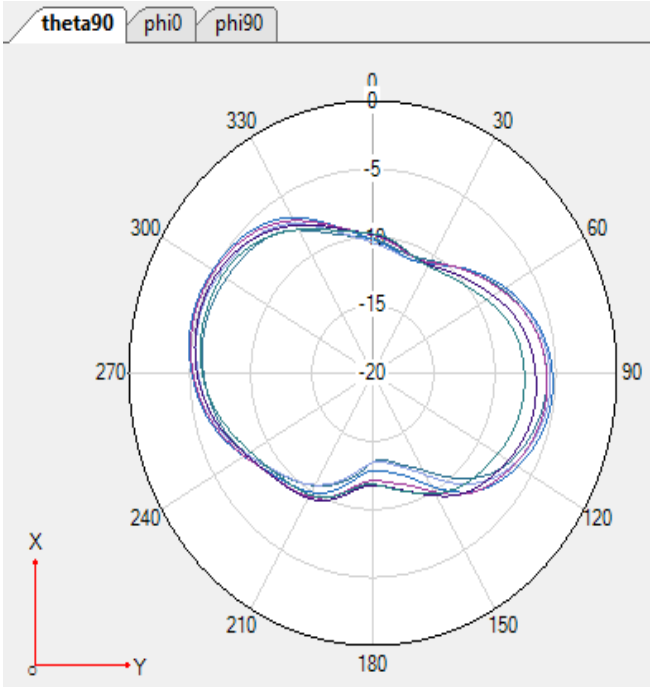
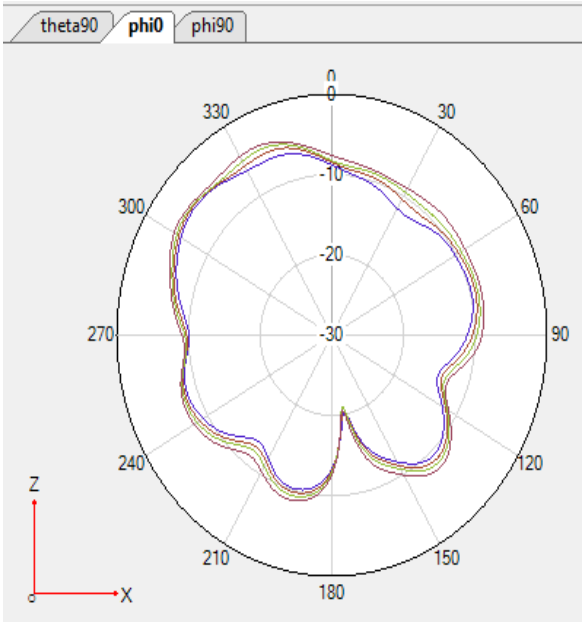
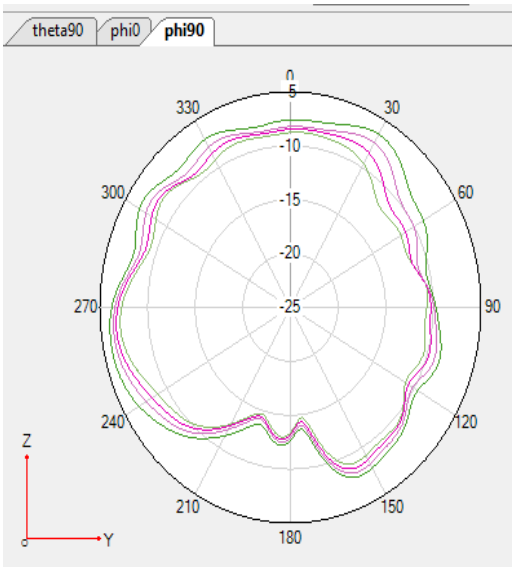


FOLD_MHB_PRX_PCS/W1/B1/B34/N1 Theta=90deg

ANT8



UNFOLD_MHB_PRX_PCS/W2/B2/B39 Phi=0deg



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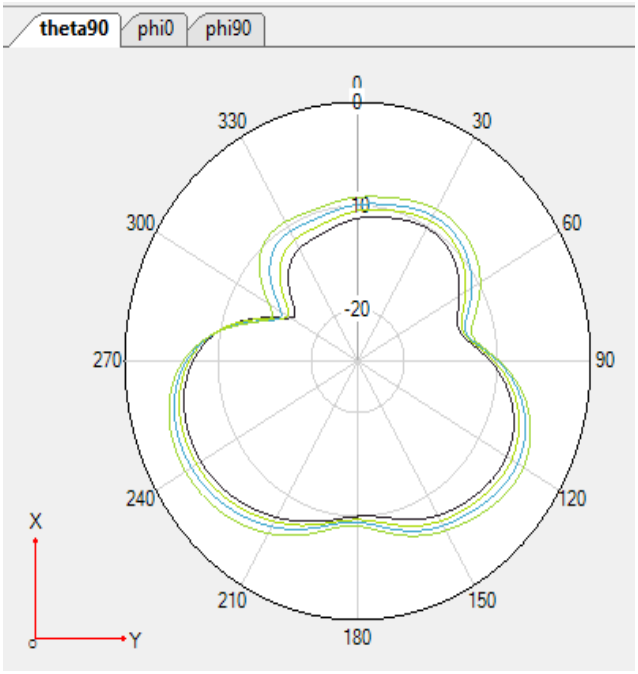

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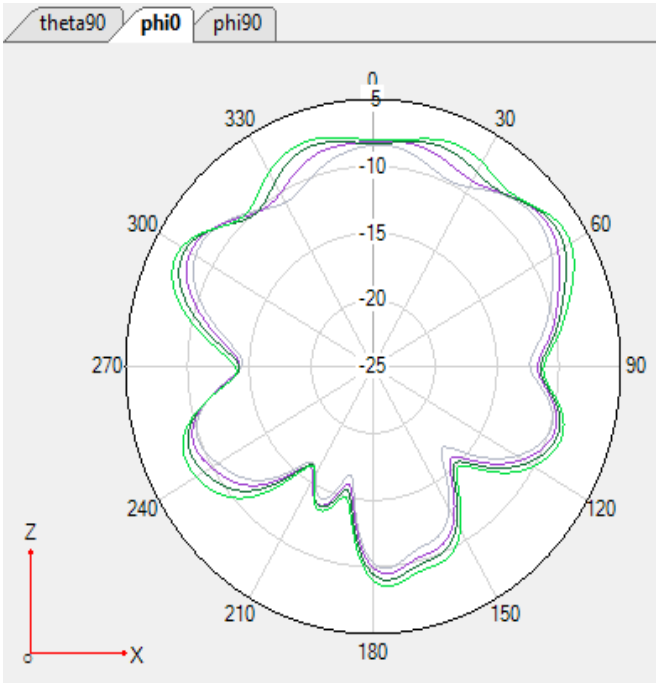

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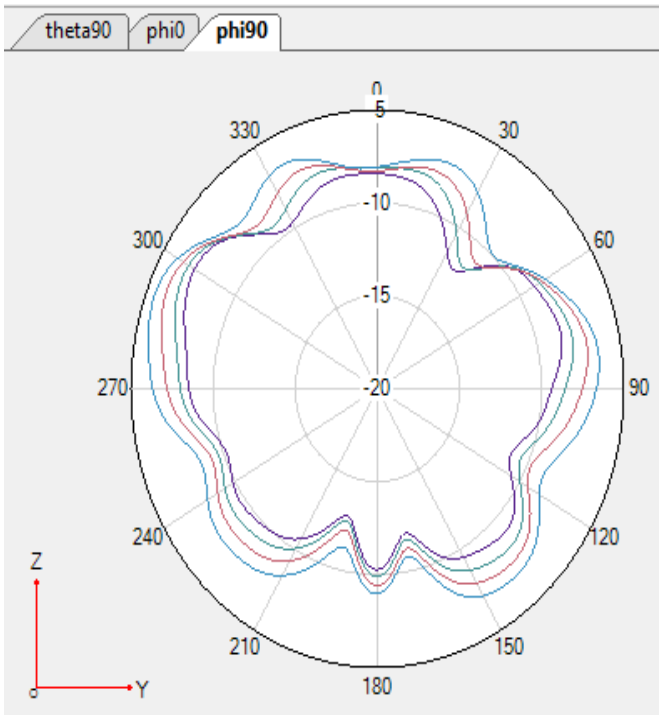

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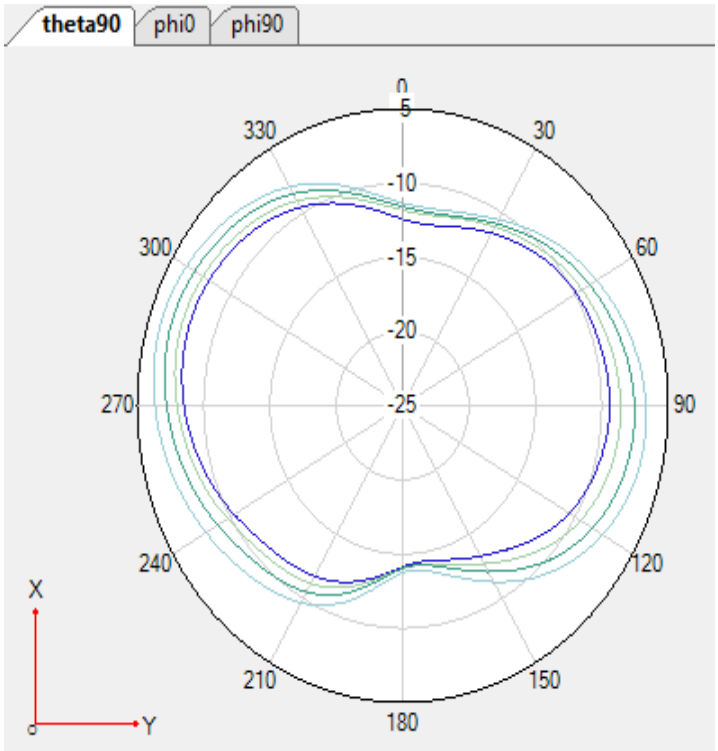
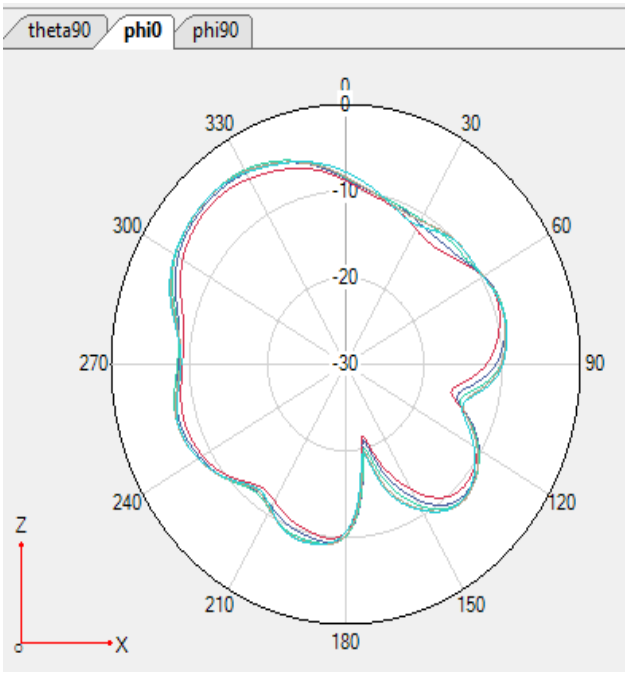


FOLD_MHB_PRX_PCS/W2/B2/B39 Theta=90deg

ANT8



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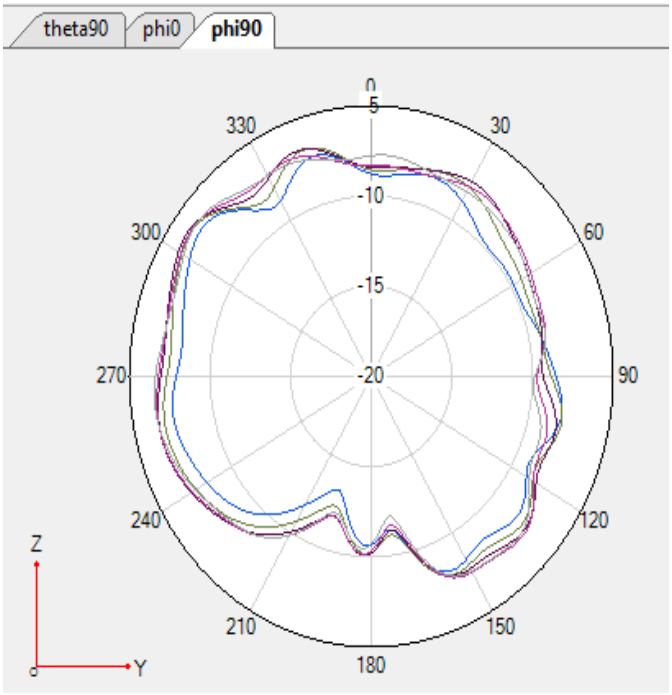
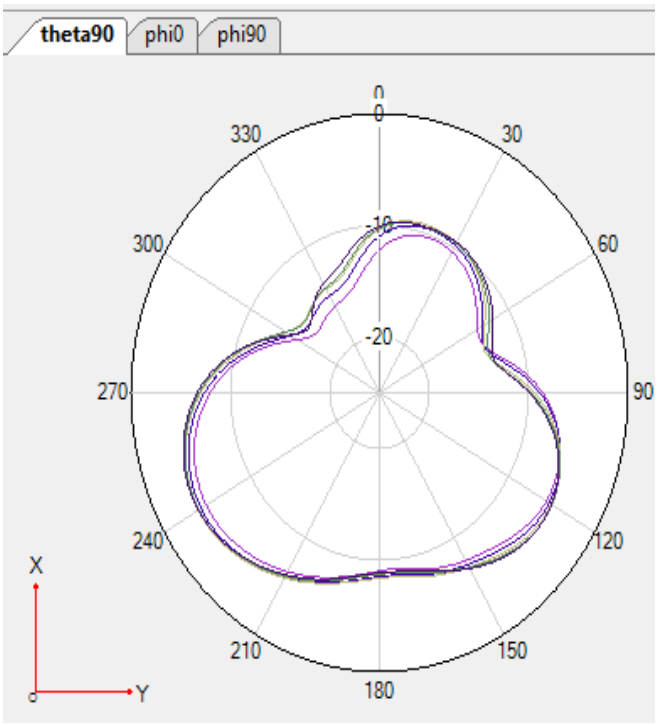
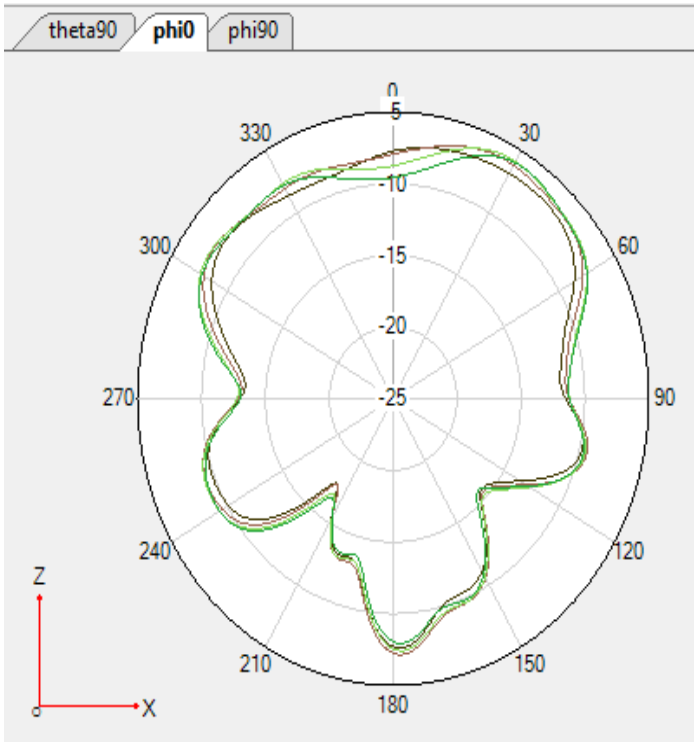


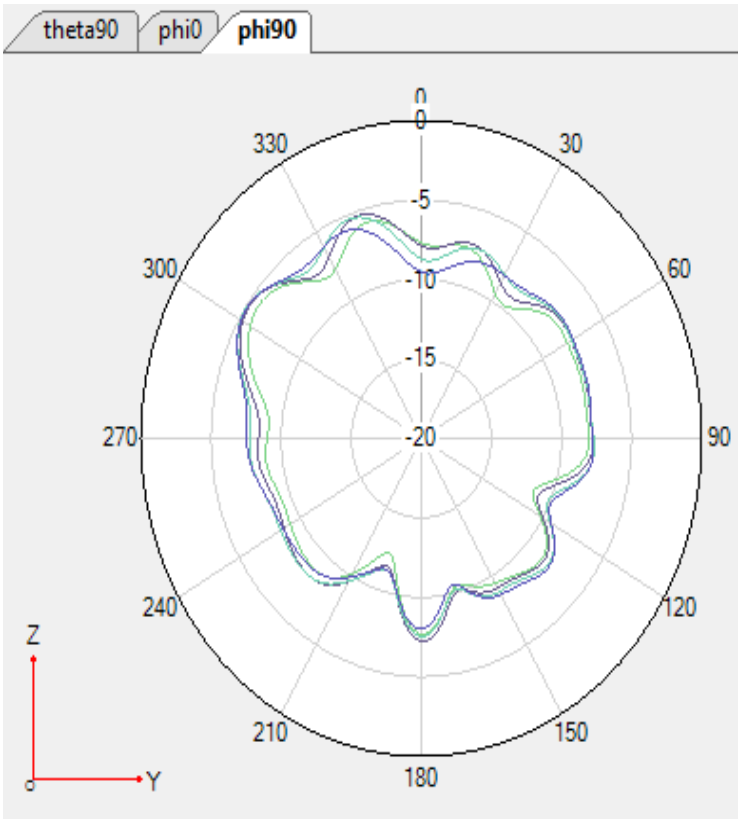
UNFOLD_MHB_PRX_DCS/W4/B3/B4/N3 Phi=90deg



UNFOLD_MHB_PRX_DCS/W4/B3/B4/N3 Theta=90deg



FOLD_MHB_PRX_DCS/W4/B3/B4/N3 Phi=0deg



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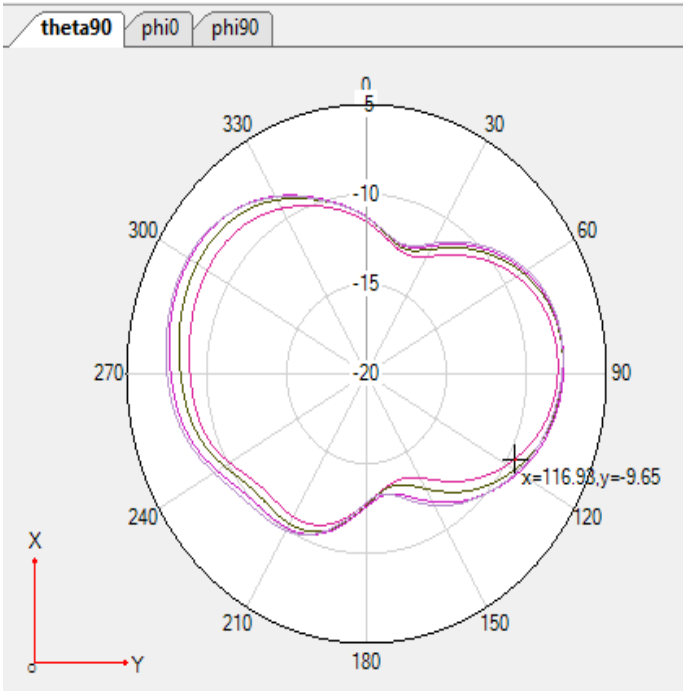

FOLD_MHB_PRX_DCS/W4/B3/B4/N3 Theta=90deg

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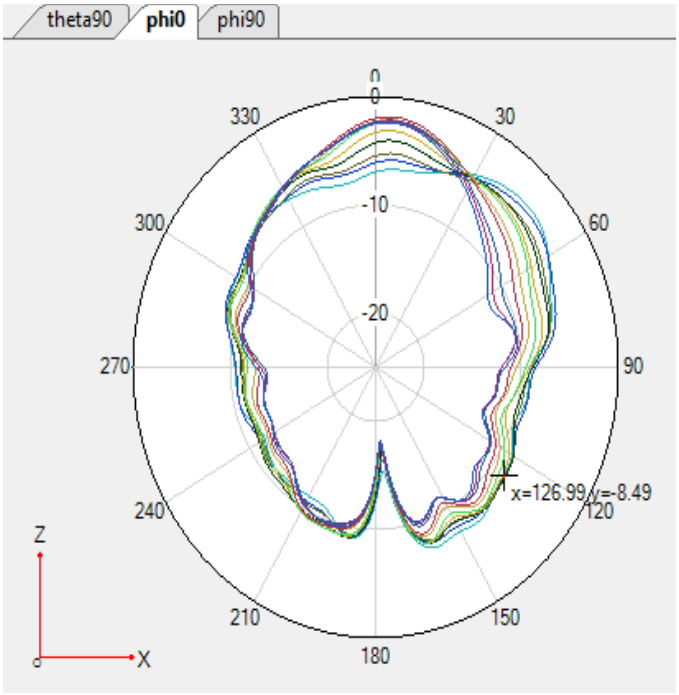
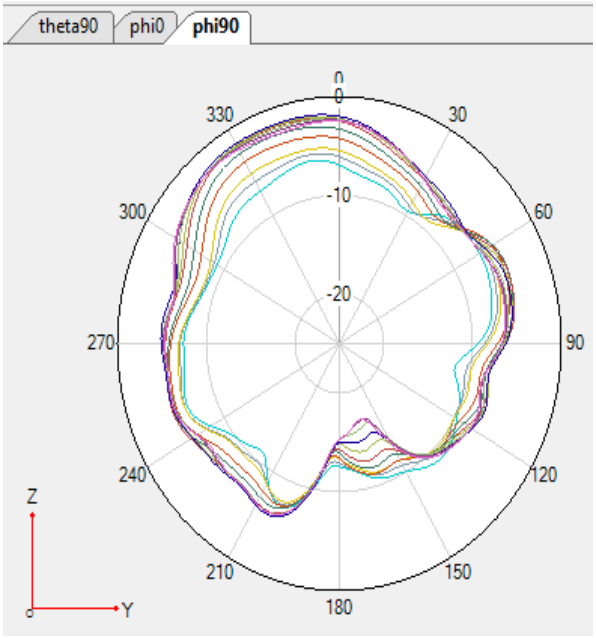
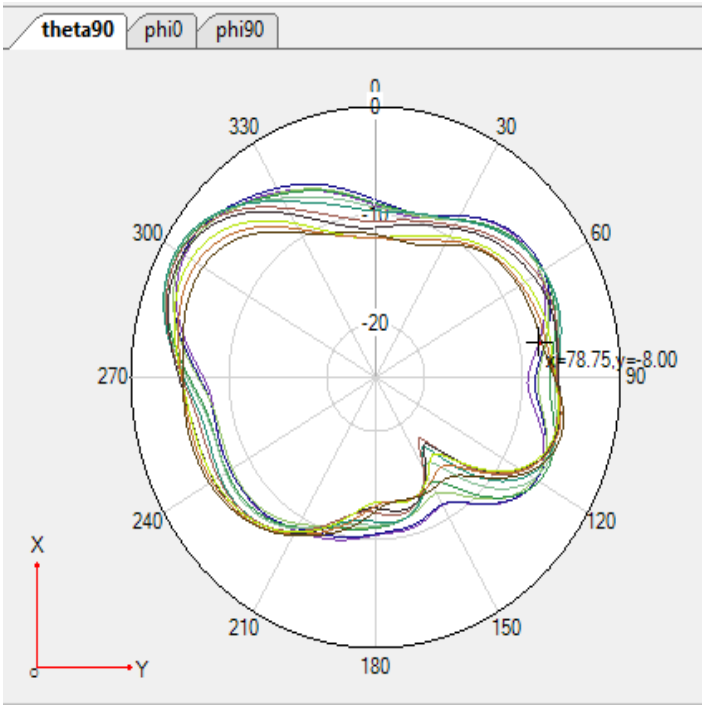


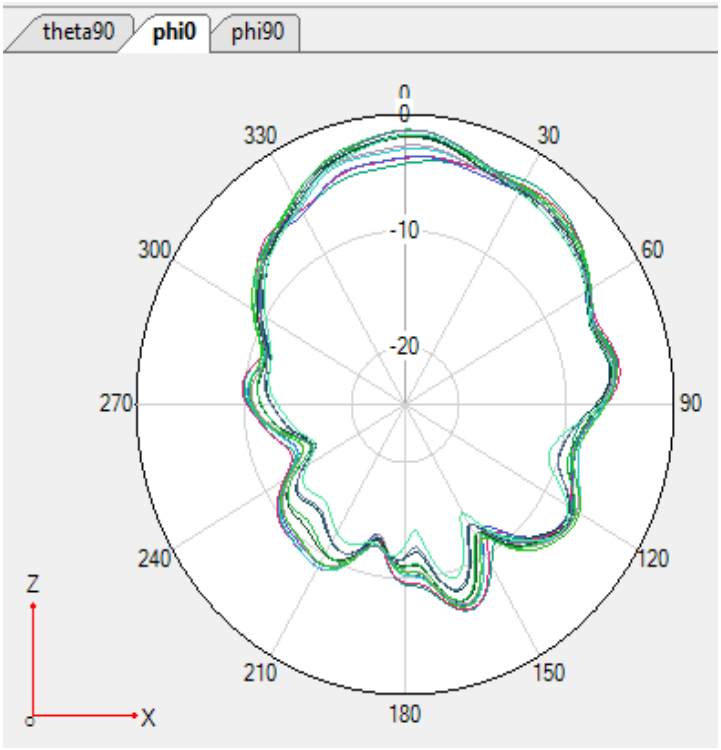
UNFOLD_MHB_PRX_B7/B38/B41/N7/N38/N41 Phi=0deg



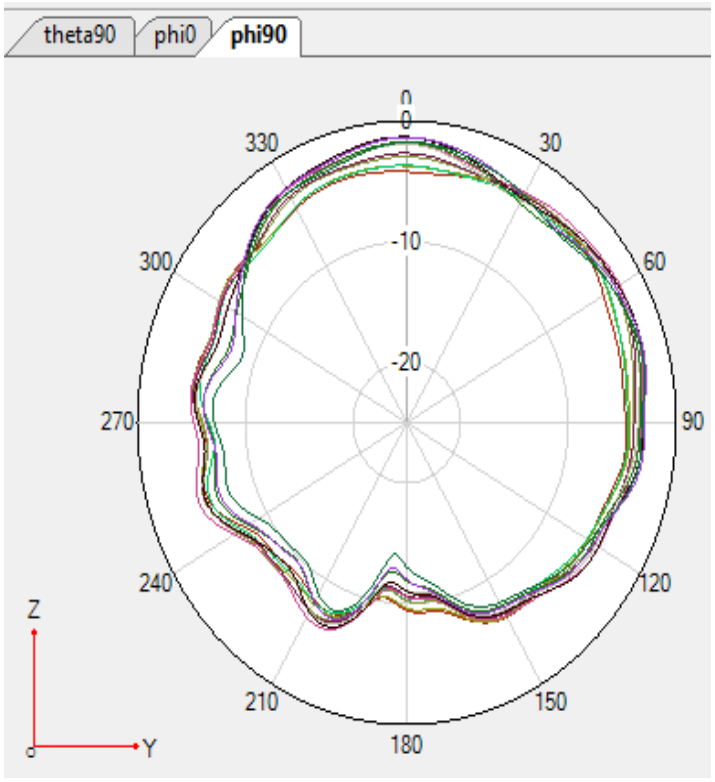
UNFOLD_MHB_PRX_B7/B38/B41/N7/N38/N41 Phi=90deg



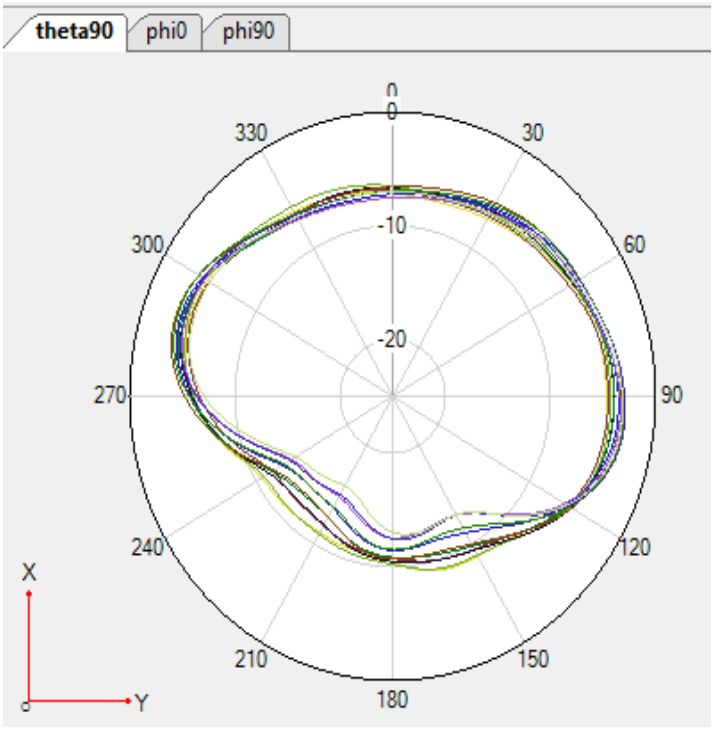
UNFOLD_MHB_PRX_B7/B38/B41/N7/N38/N41 Theta=90deg



FOLD_MHB_PRX_B7/B38/B41/N7/N38/N41 Phi=0deg

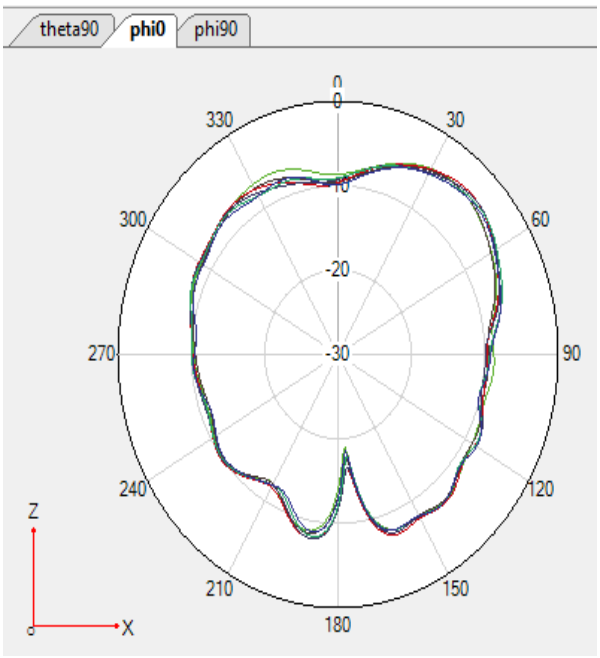


FOLD_MHB_PRX_B7/B38/B41/N7/N38/N41 Phi=90deg



FOLD_MHB_PRX_B7/B38/B41/N7/N38/N41 Theta=90deg

ANT8



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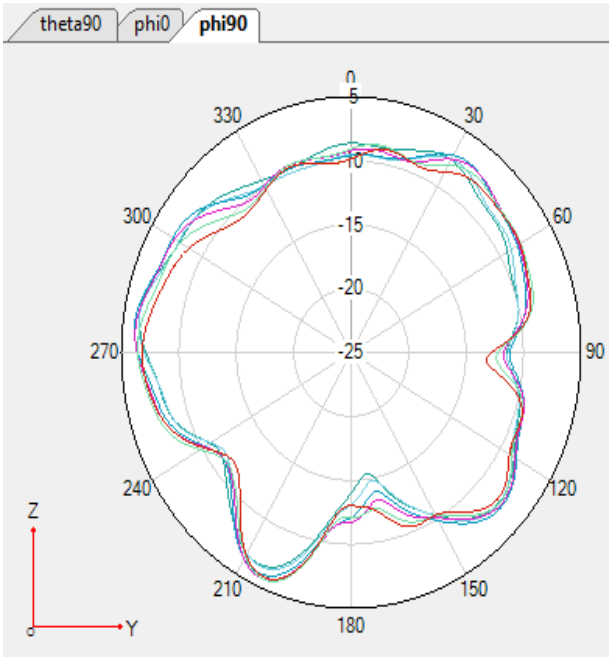

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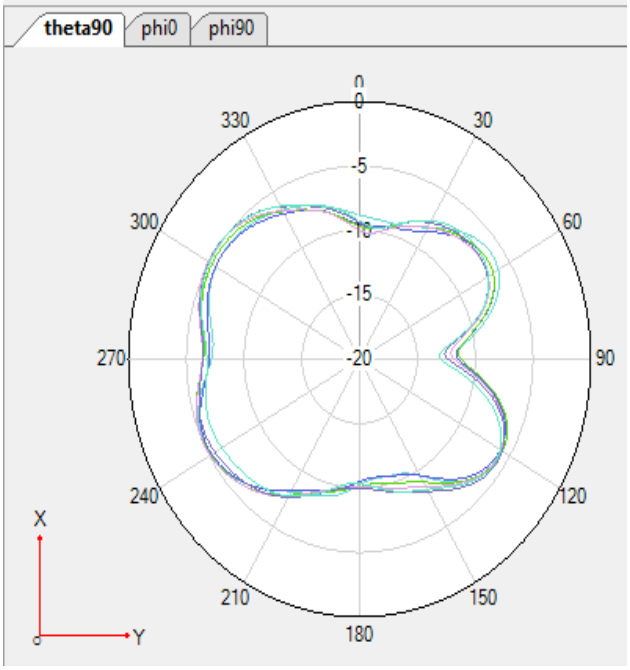
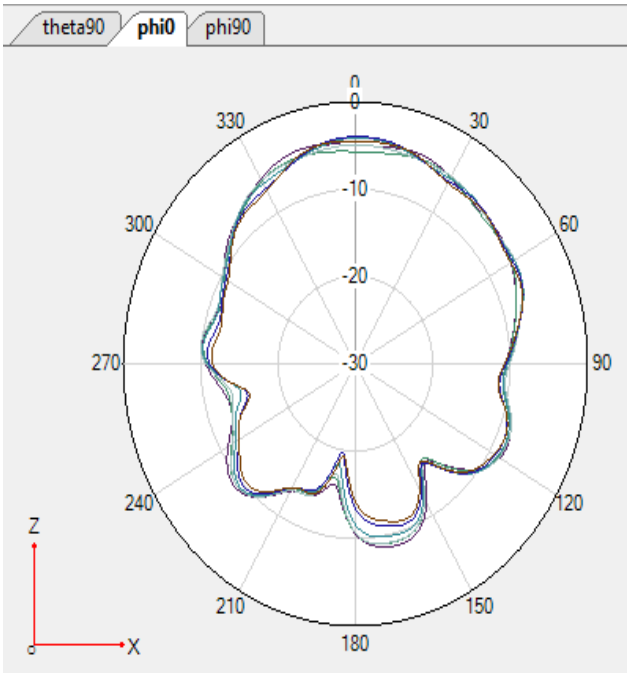


UNFOLD_MHB_PRX_B40/N40　　Theta=90deg



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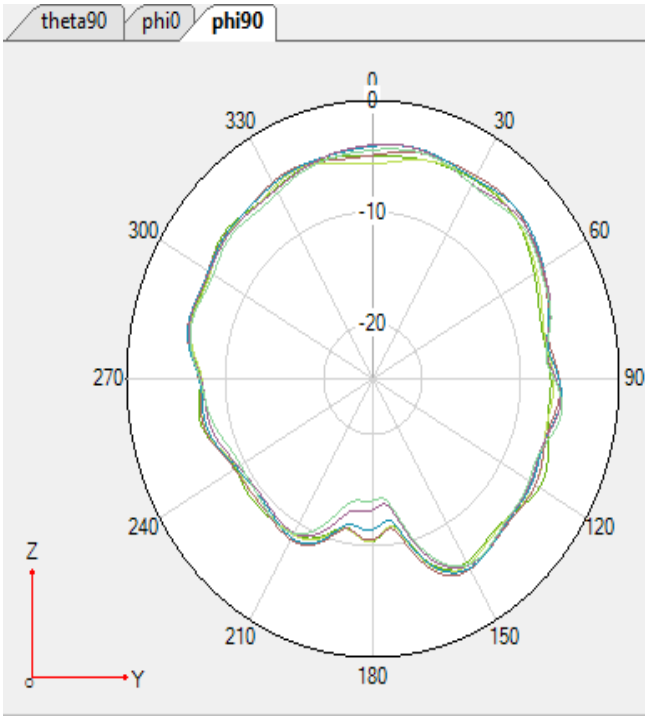

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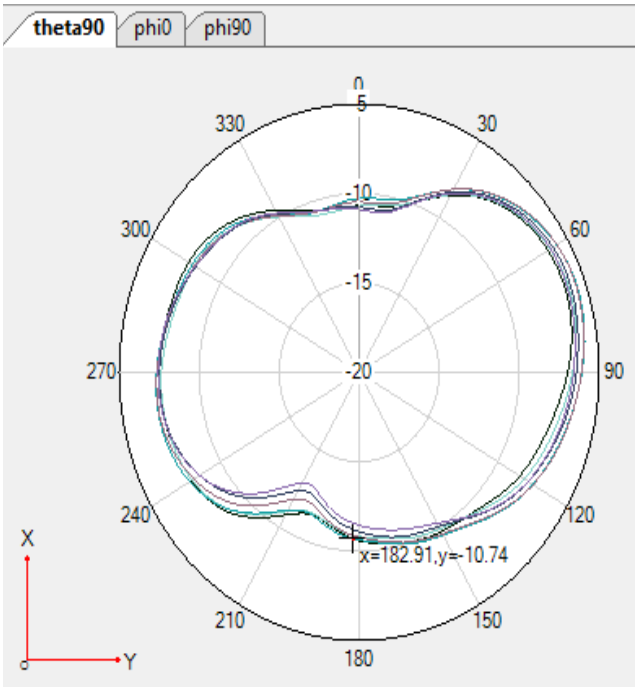
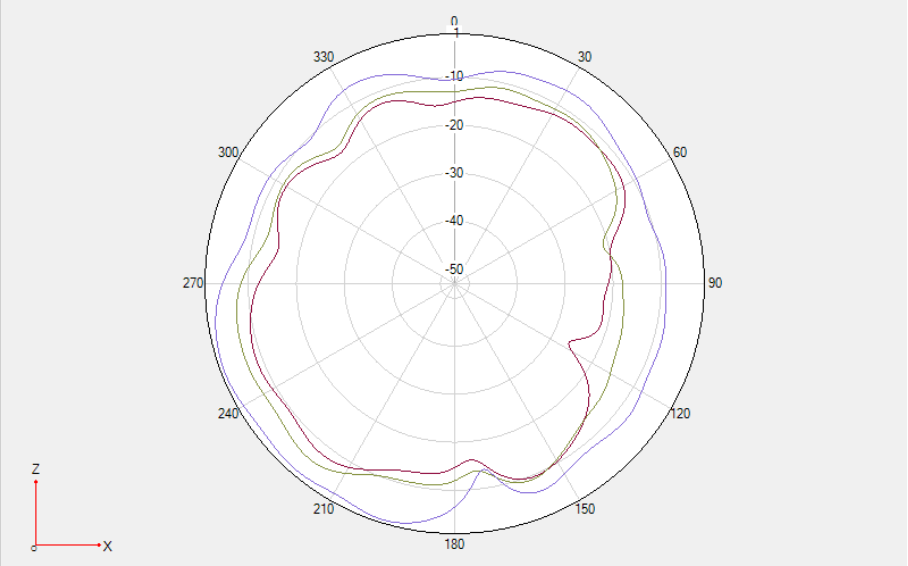
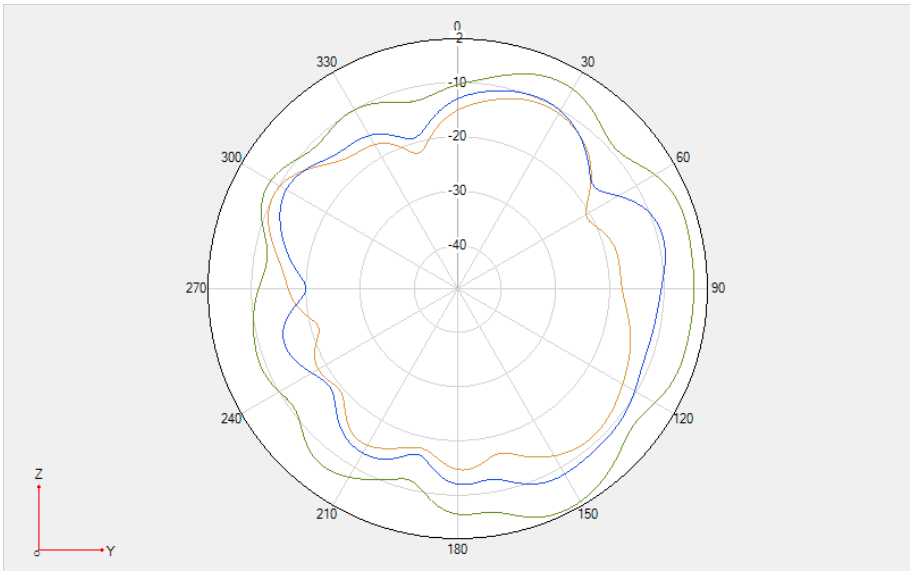


FOLD_MHB_PRX_B40/N40 Theta=90deg

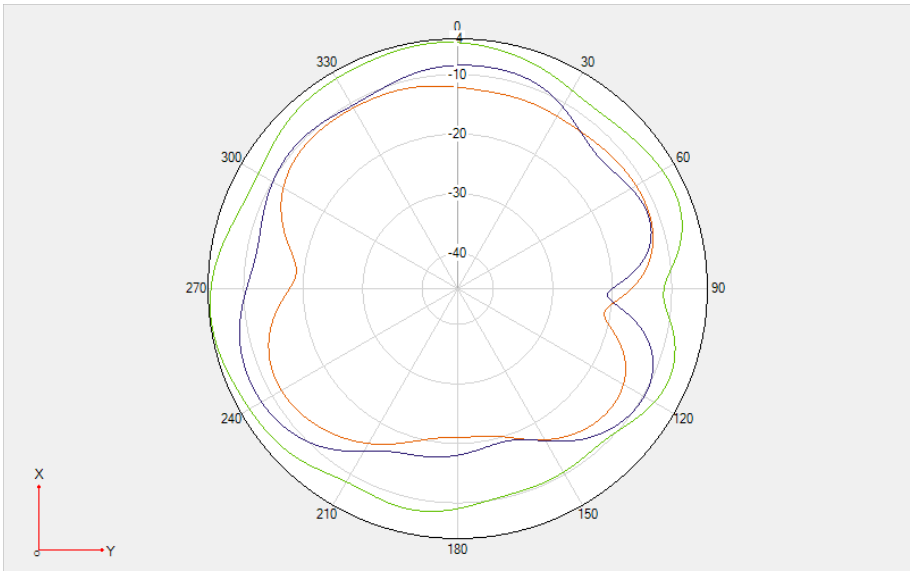
ANT8



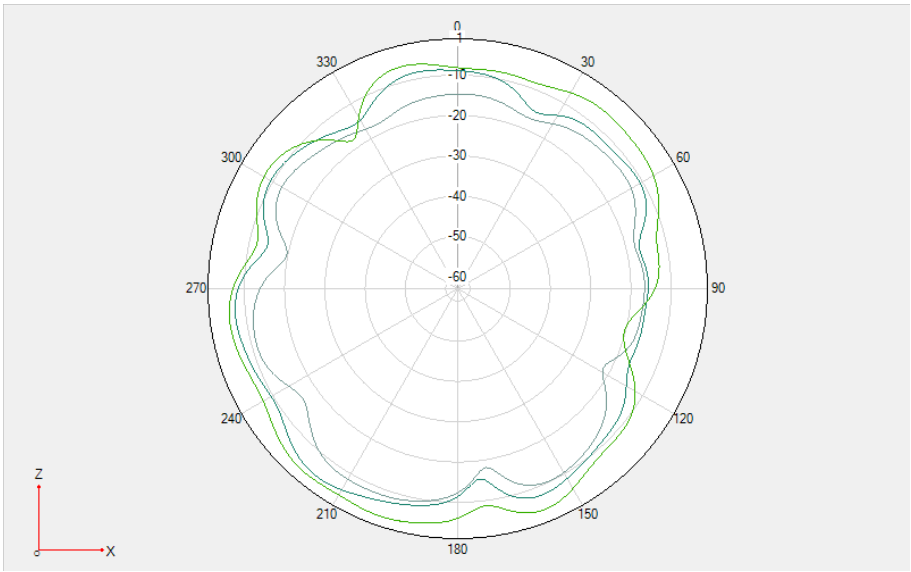
UNFOLD_N77/78/B42_PRX MIMO Phi=0deg



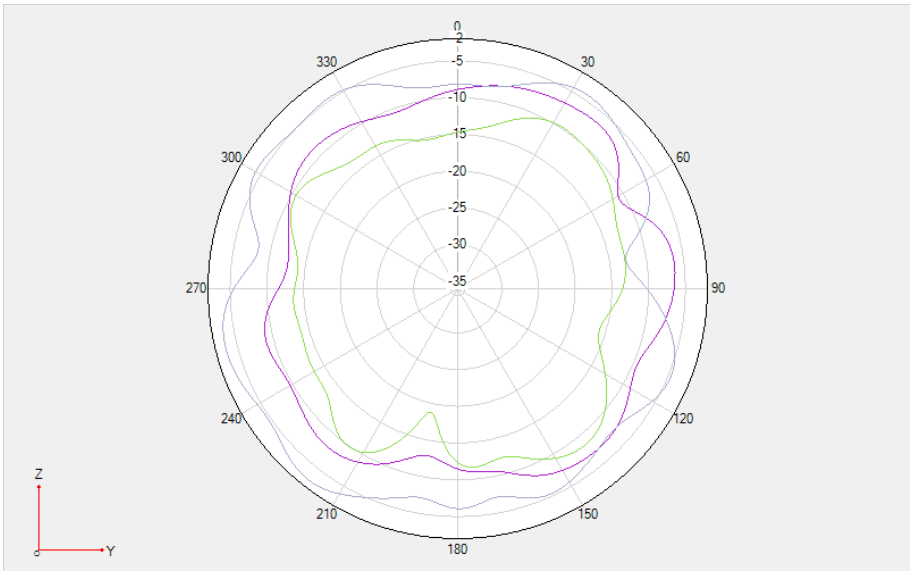
UNFOLD_N77/78/B42_PRX MIMO Phi=90deg



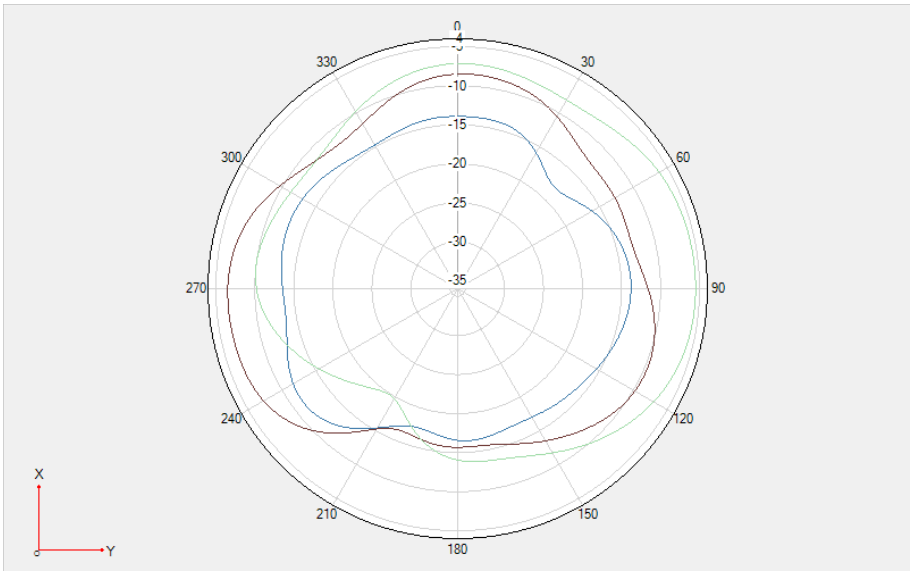
UNFOLD_N77/78/B42_PRX MIMO Theta=90deg



FOLD_N77/78/B42_PRX MIMO Phi=0deg

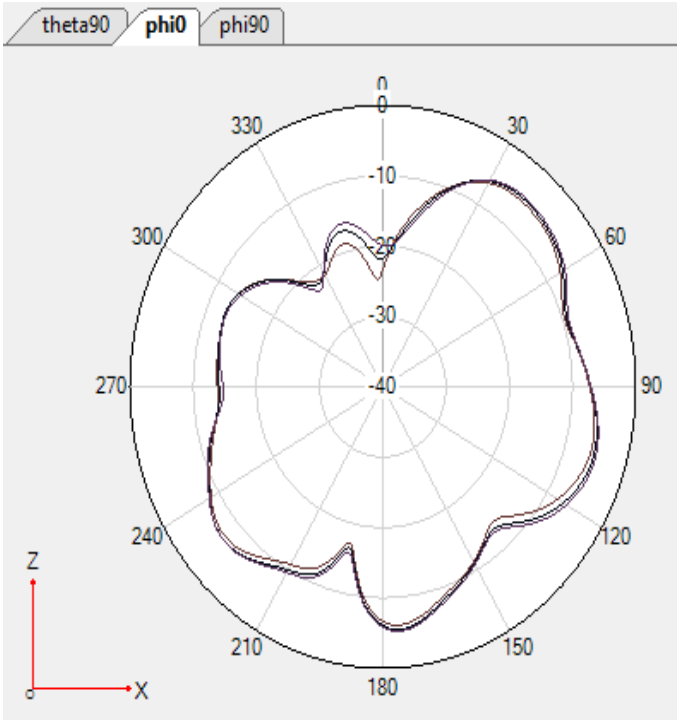


FOLD_N77/78/B42_PRX MIMO Phi=90deg

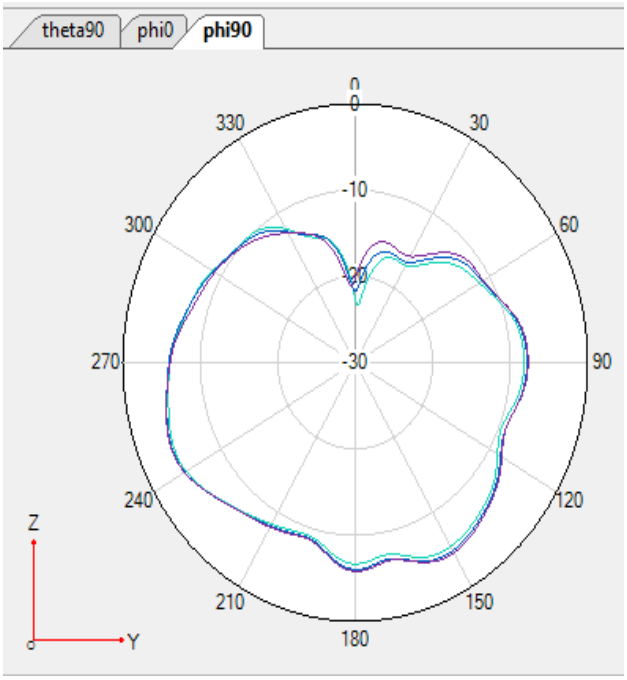


FOLD_N77/78/B42_PRX MIMO Theta=90deg

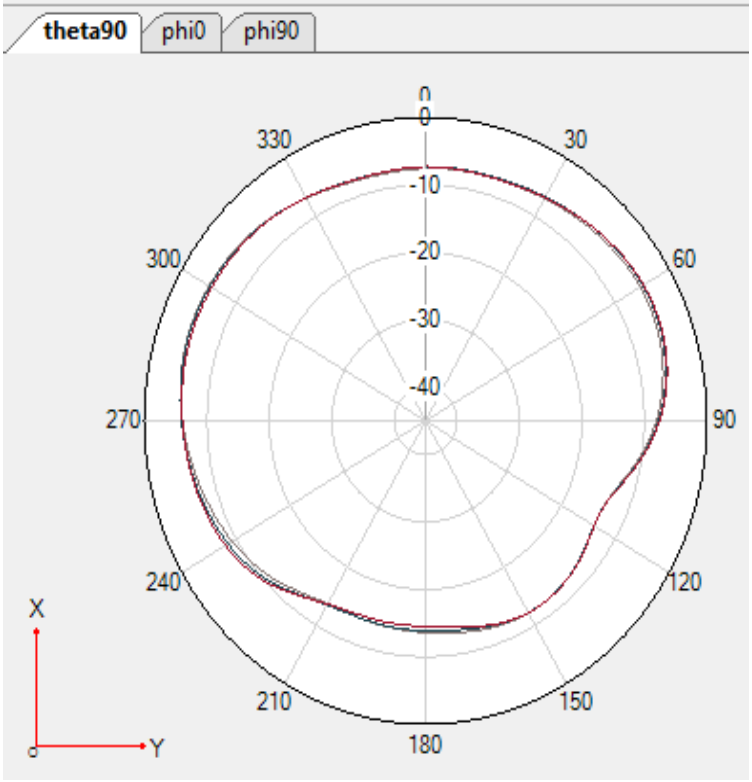
ANT12



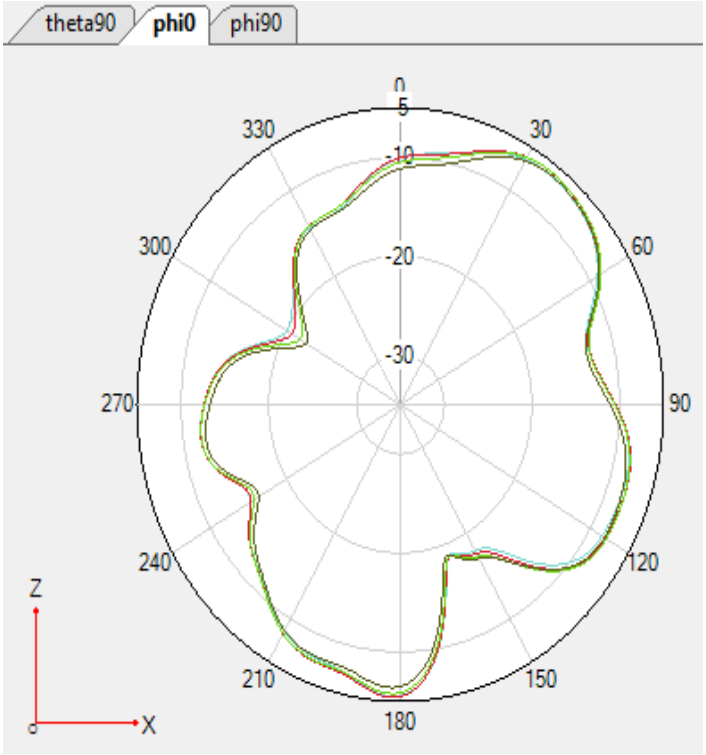
UNFOLD_GPS_L1 Phi=0deg



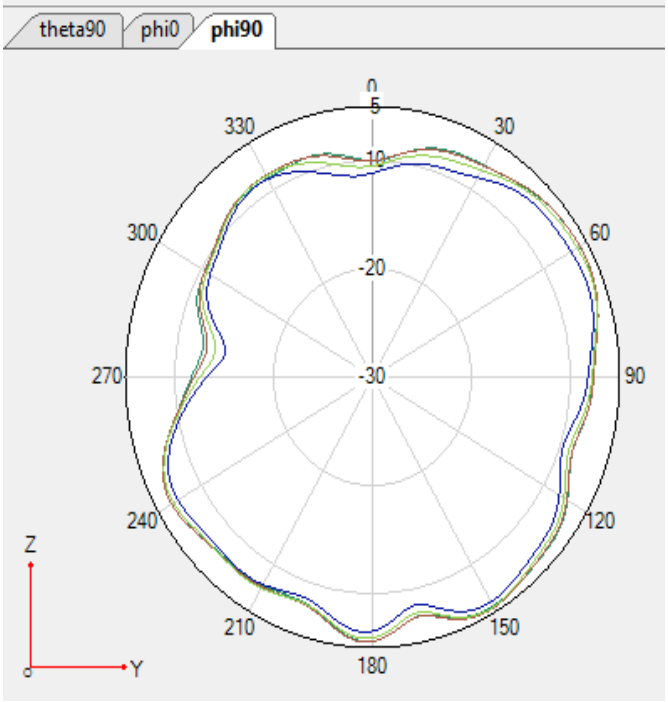
UNFOLD_GPS_L1 Phi=90deg



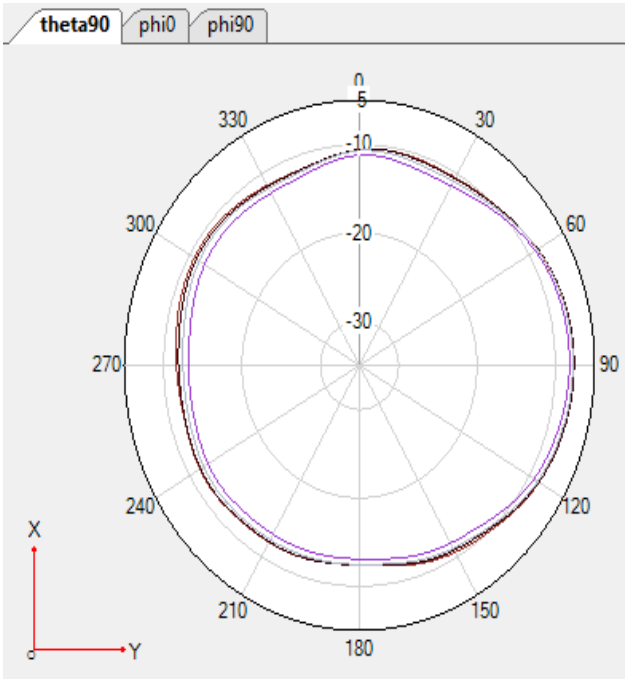
UNFOLD_GPS_L1 Theta=90deg



FOLD_GPS_L1 Phi=0deg

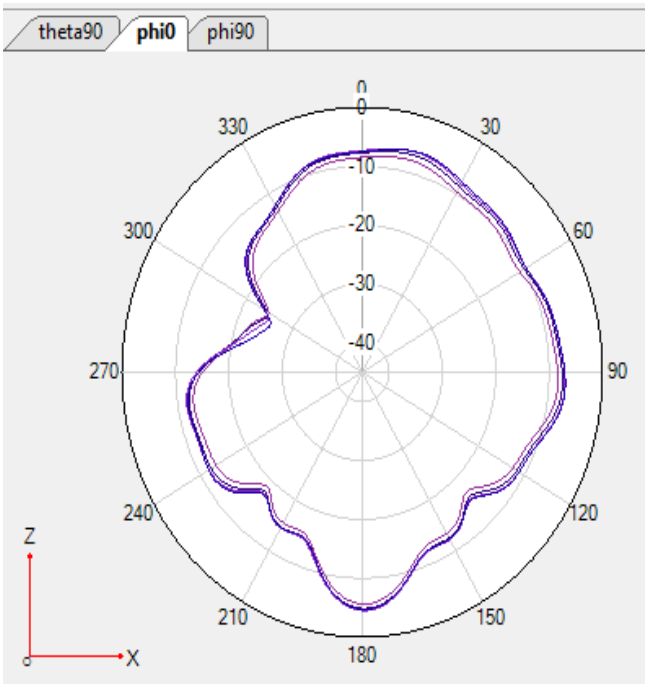


FOLD_GPS_L1 Phi=90deg

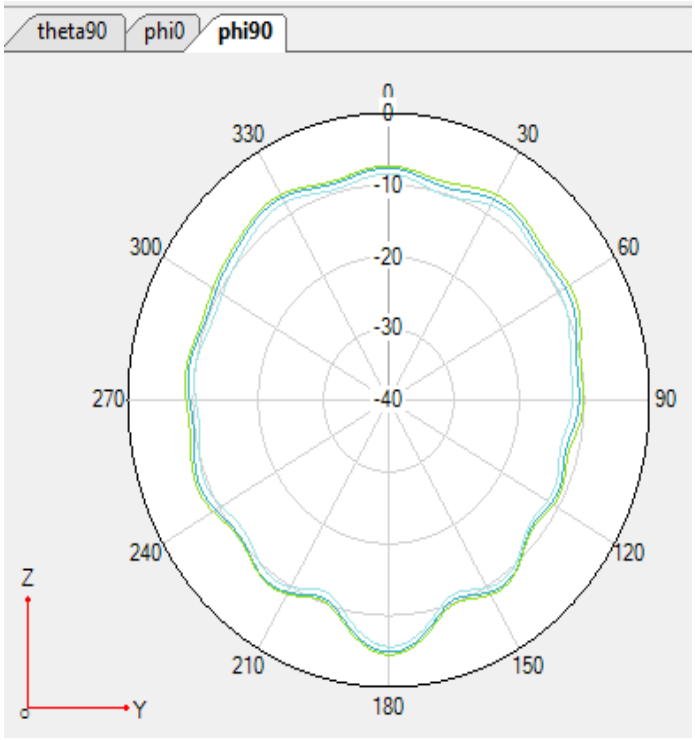


FOLD_GPS_L1 Theta=90deg

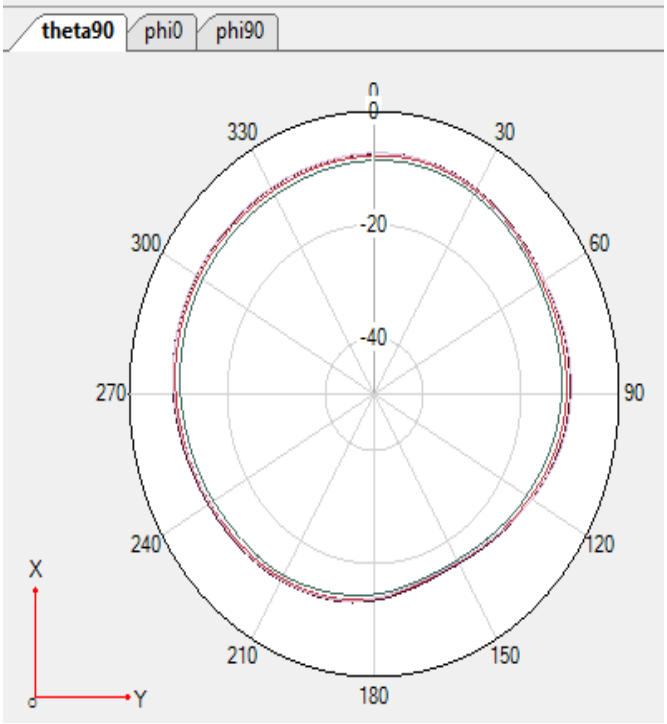
ANT13



UNFOLD_GPS_L5 Phi=0deg



UNFOLD_GPS_L5 Phi=90deg



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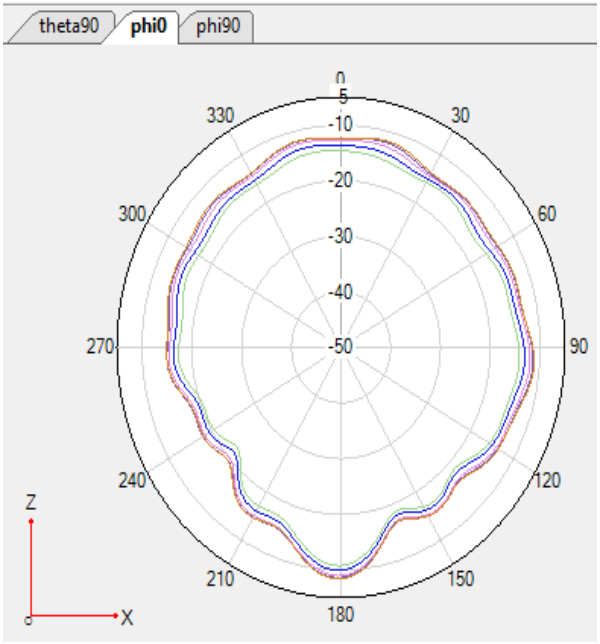

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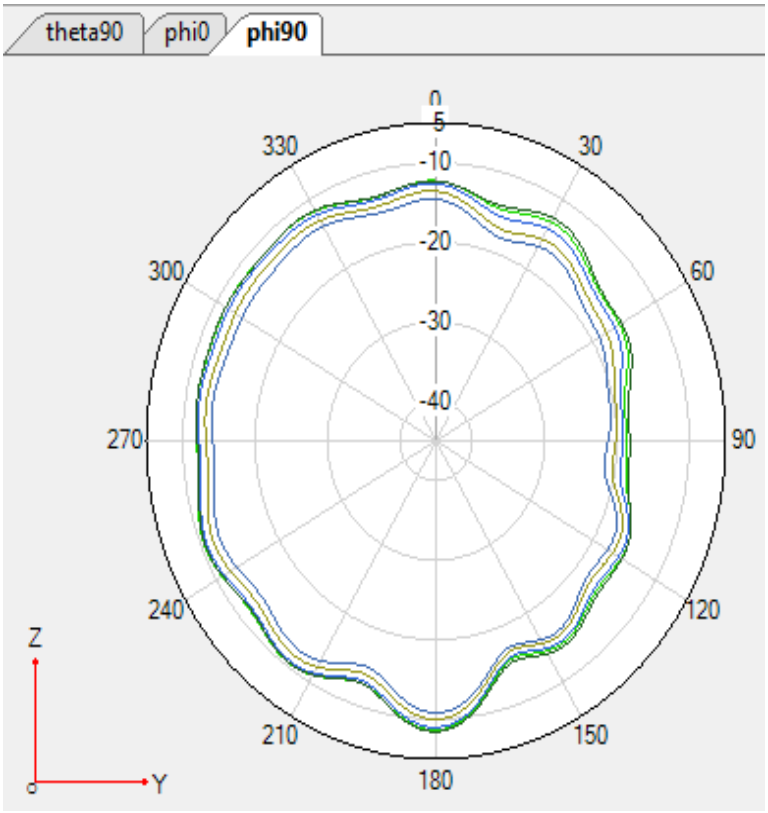

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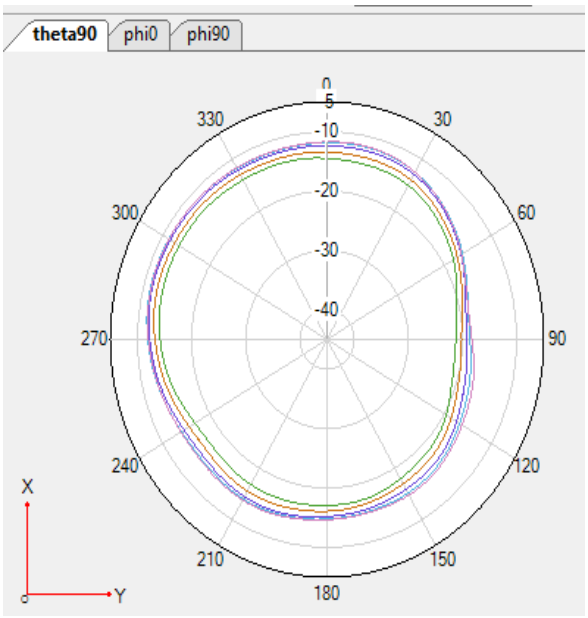

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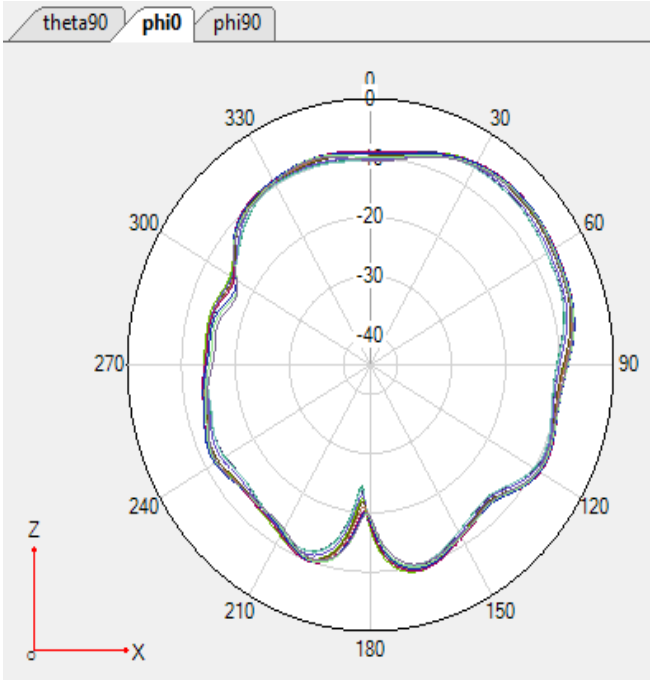

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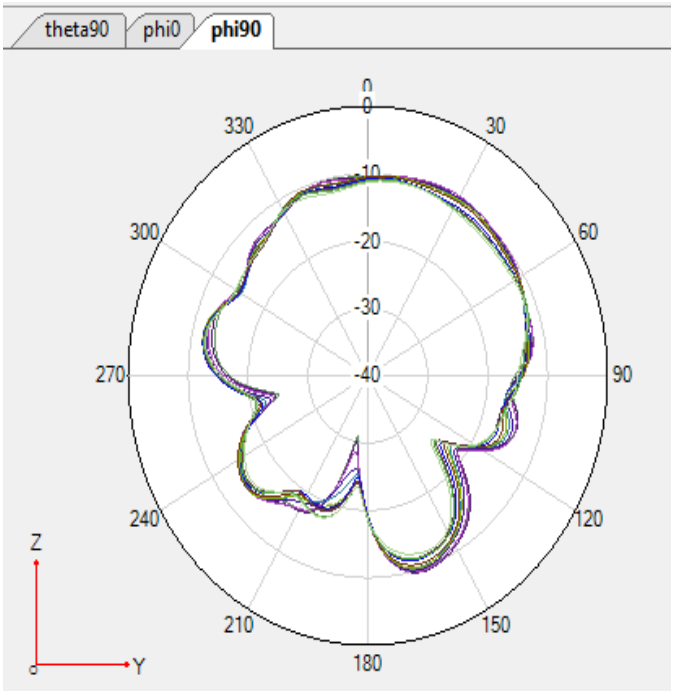

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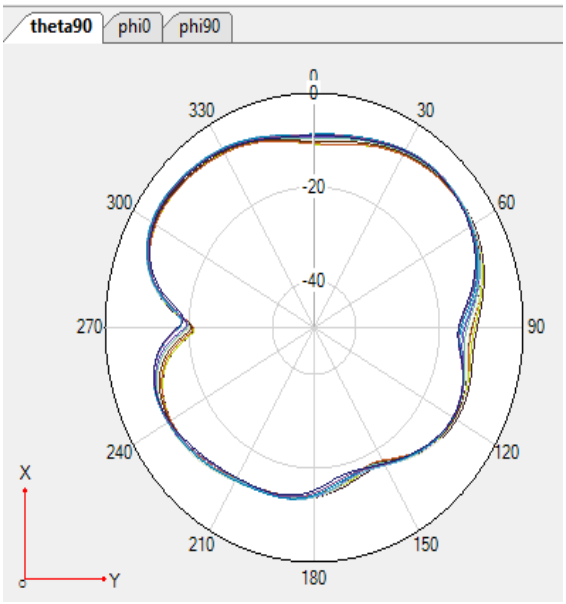

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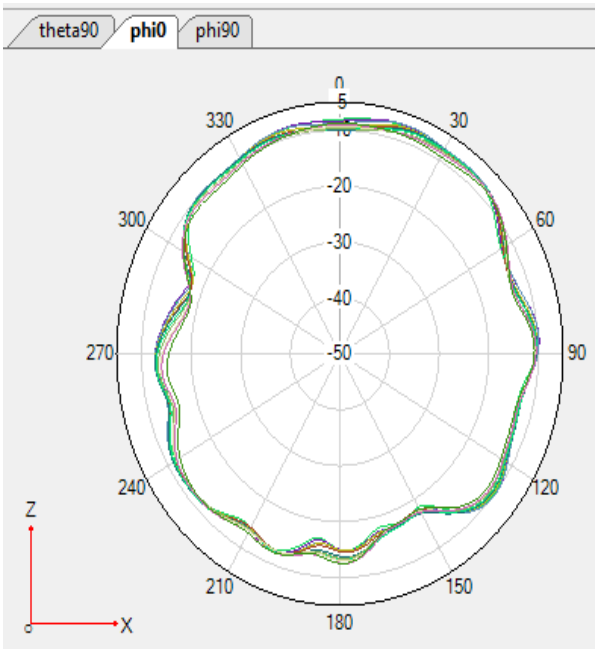

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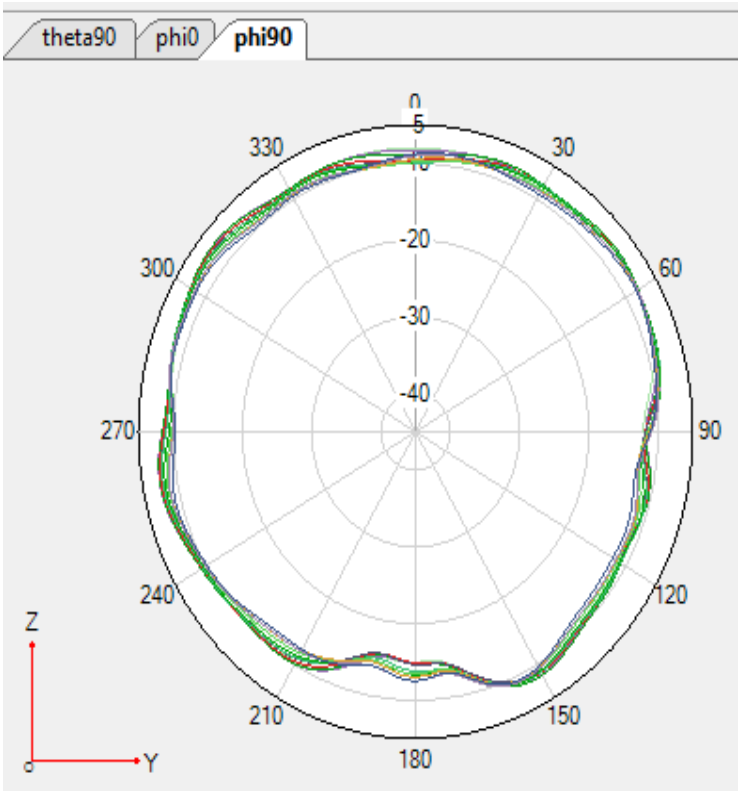

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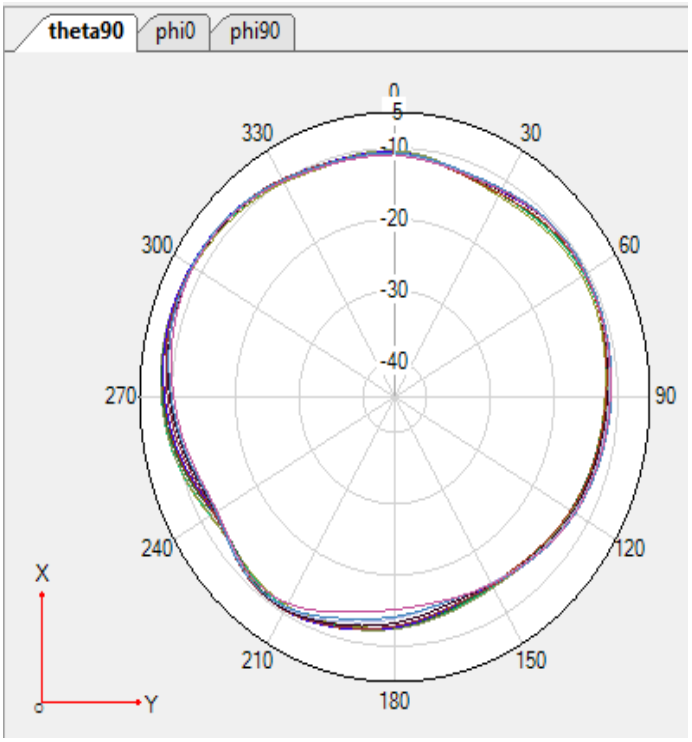

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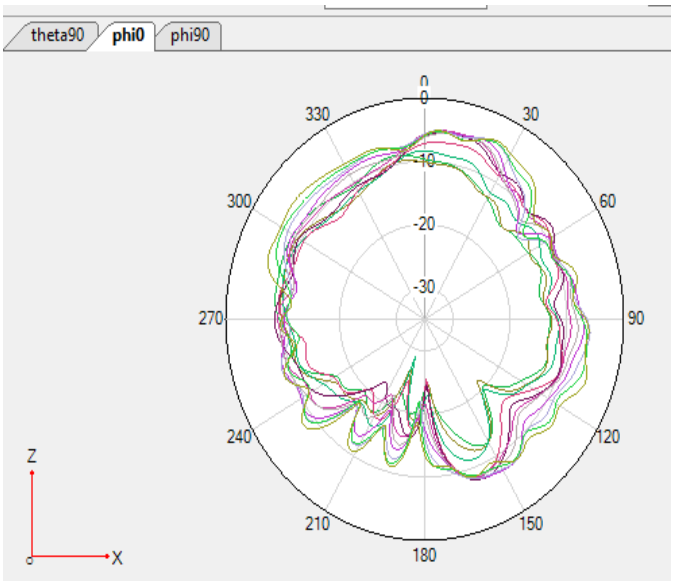

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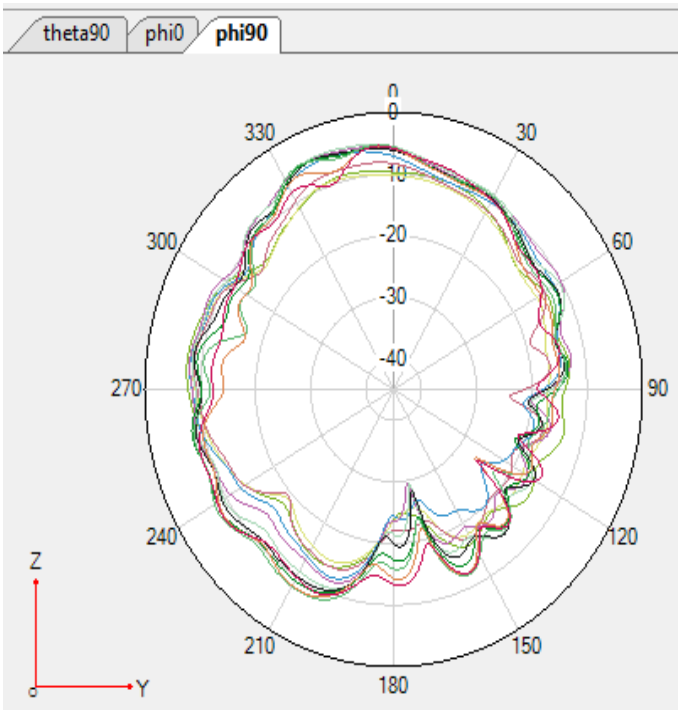

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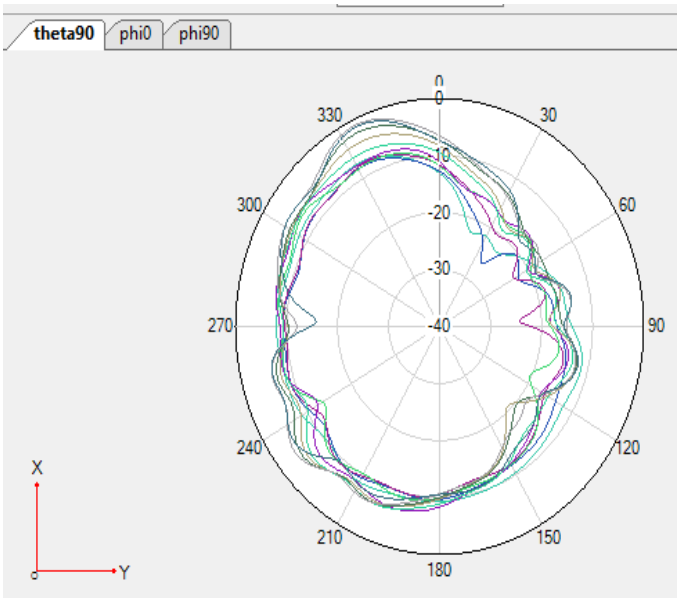

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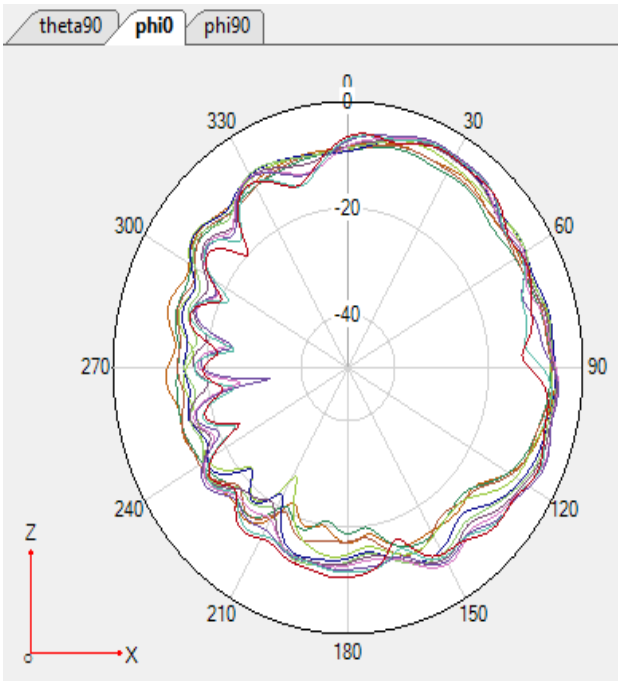

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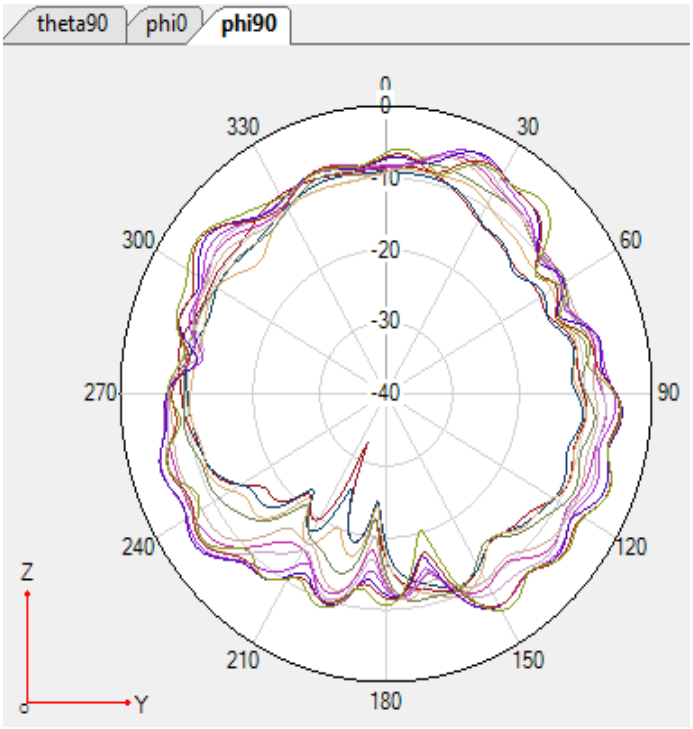

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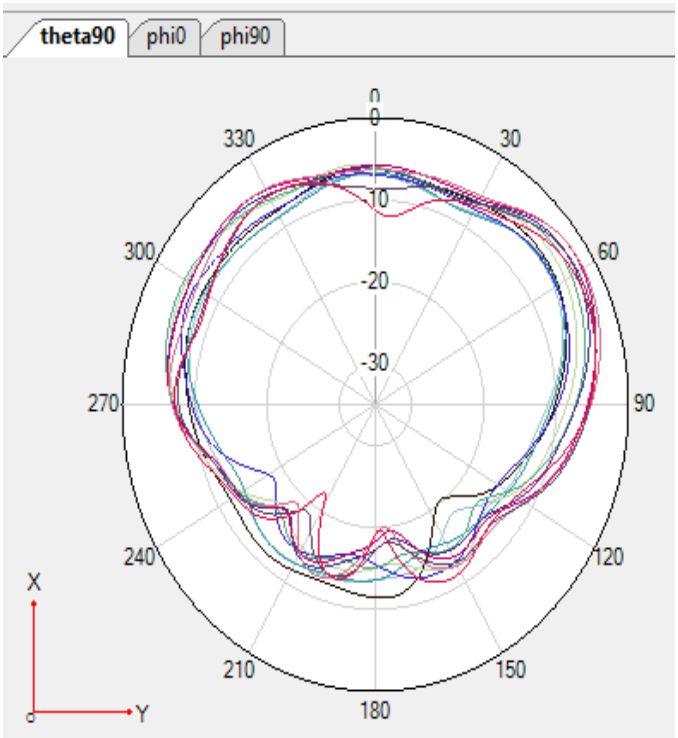

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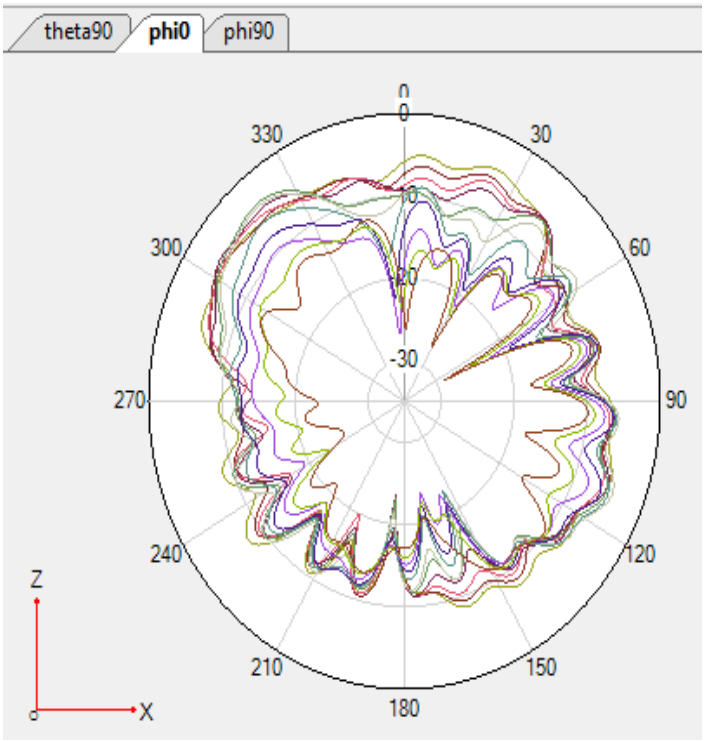

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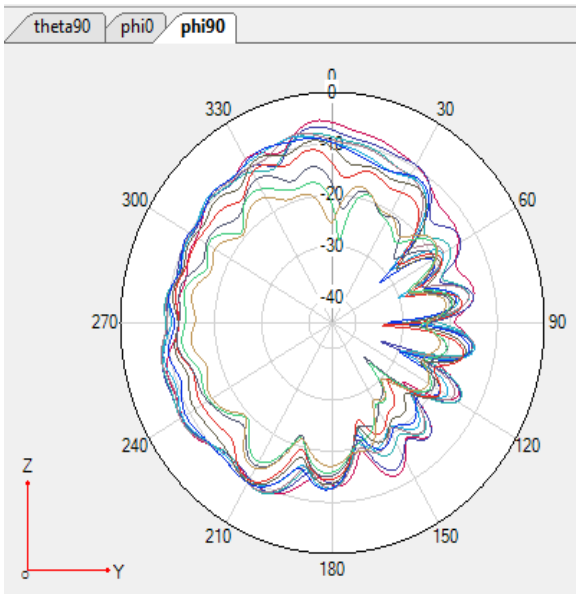

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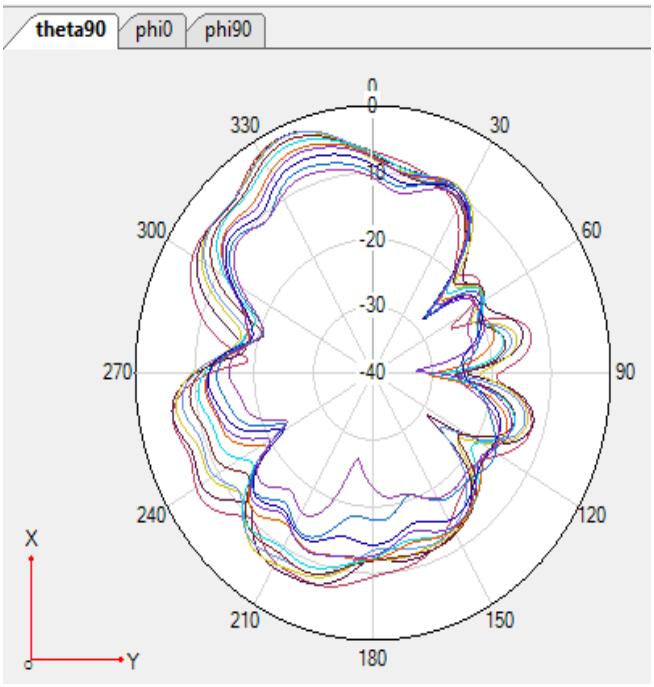

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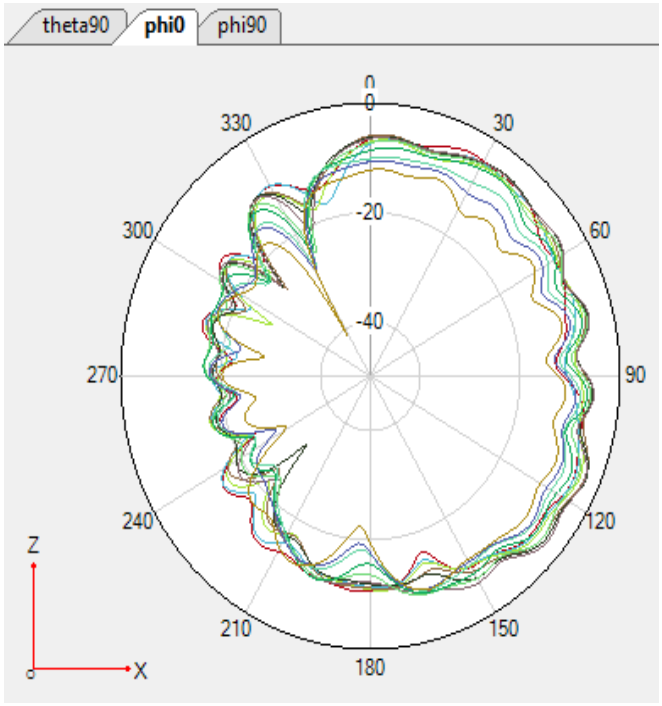

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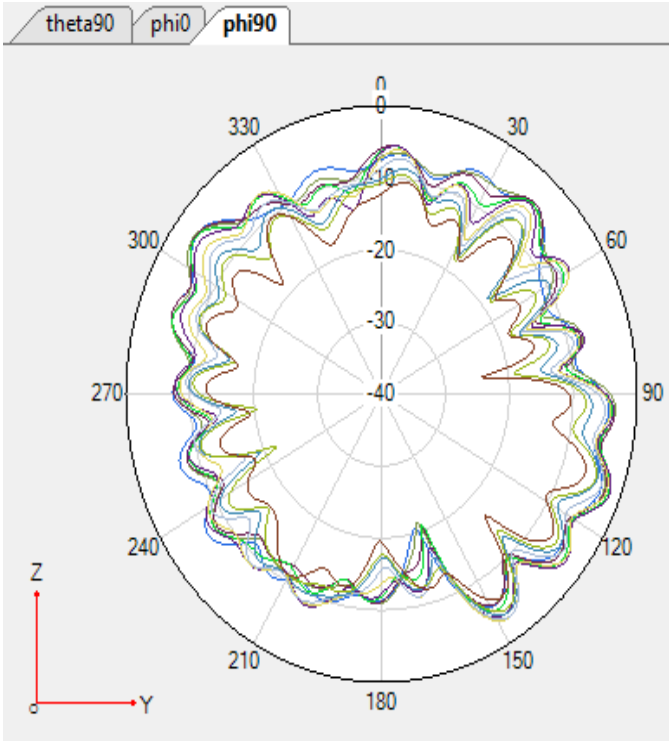

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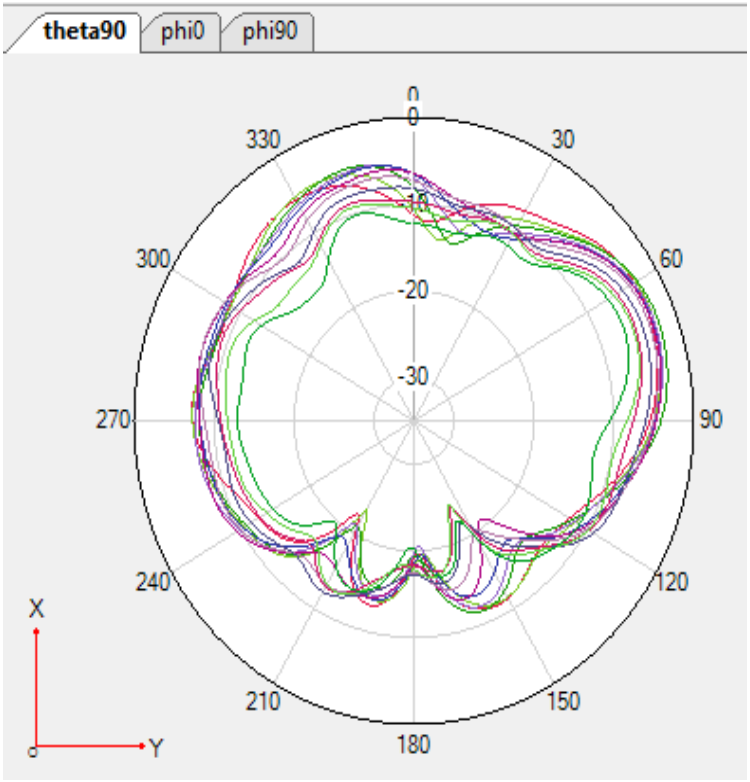

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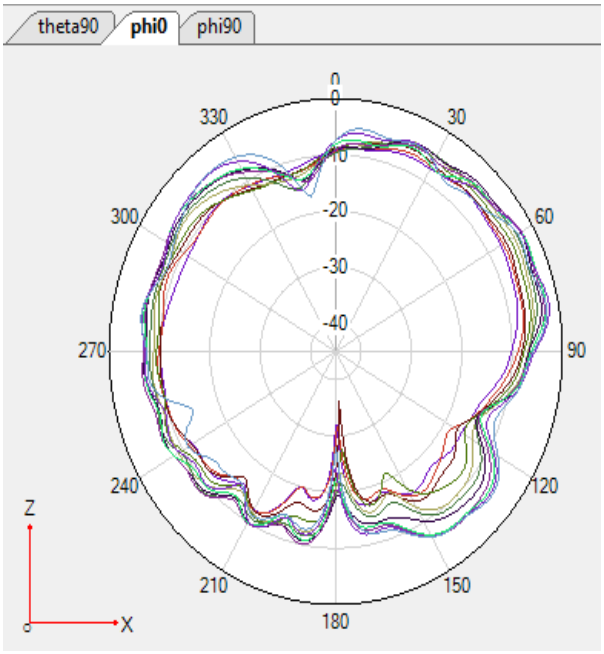

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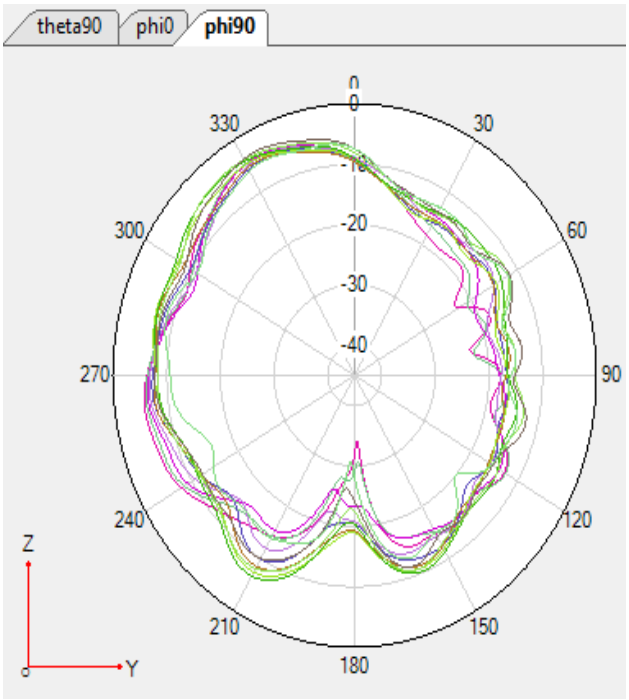

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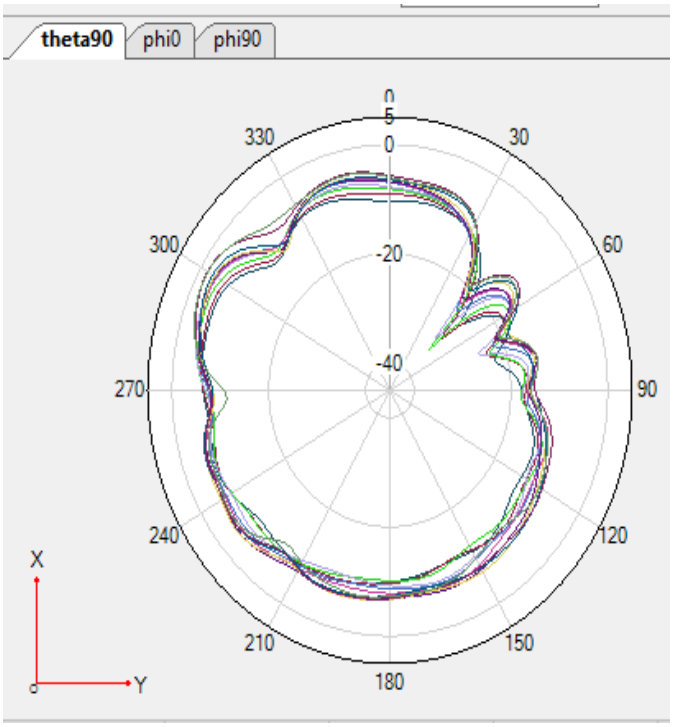

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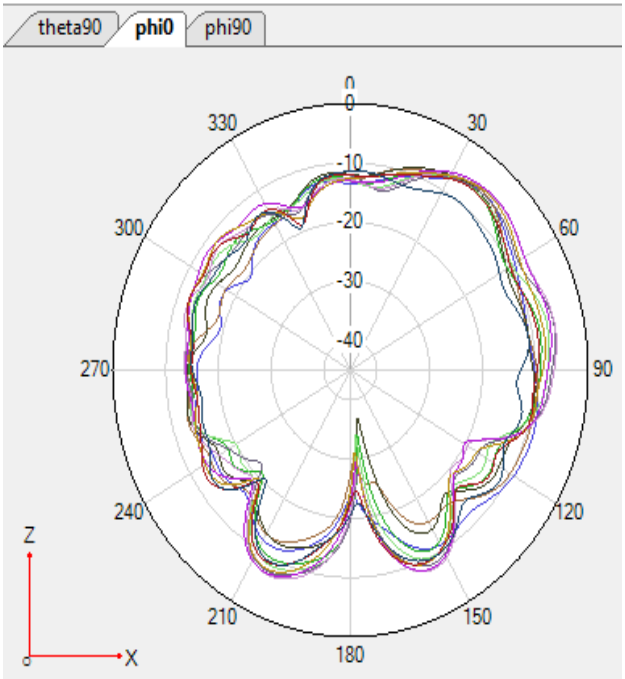

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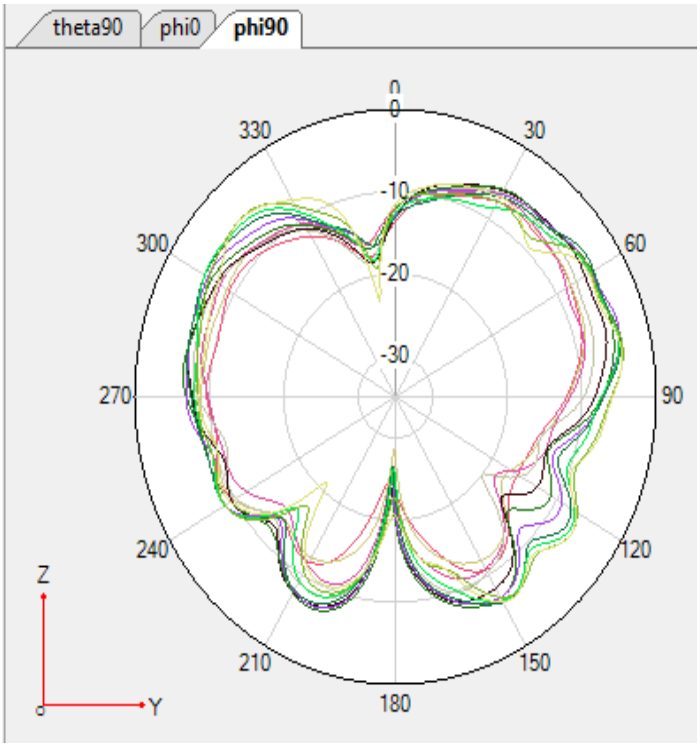

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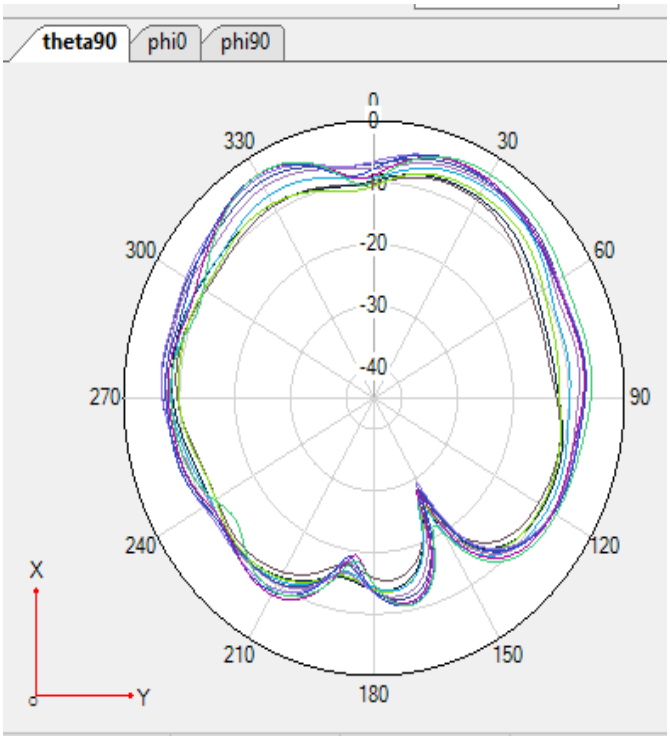

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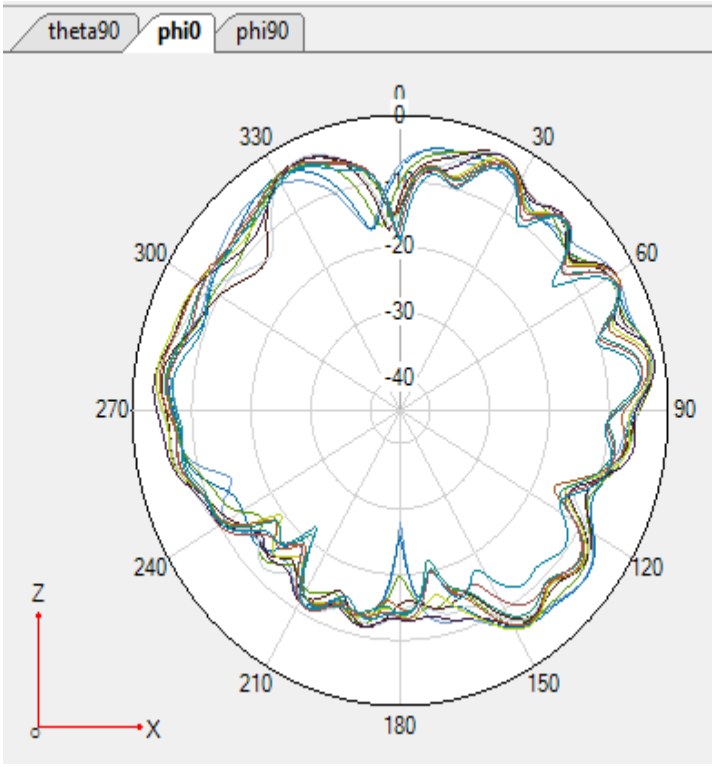

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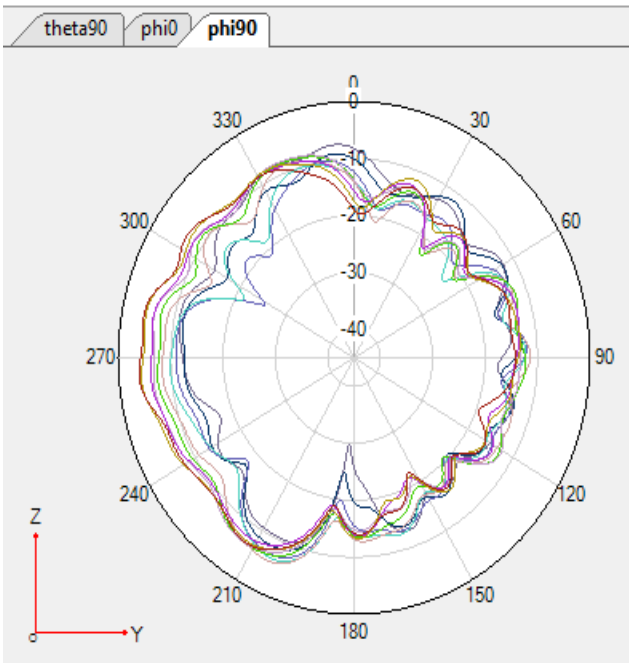

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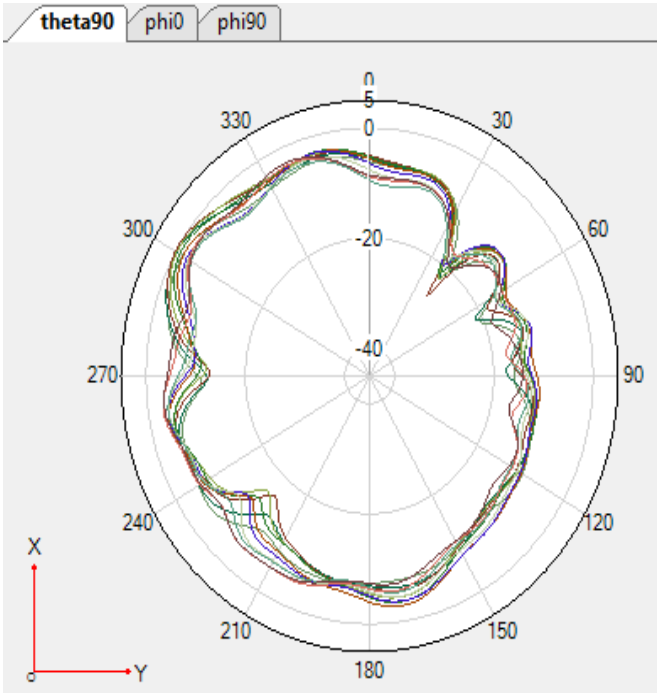

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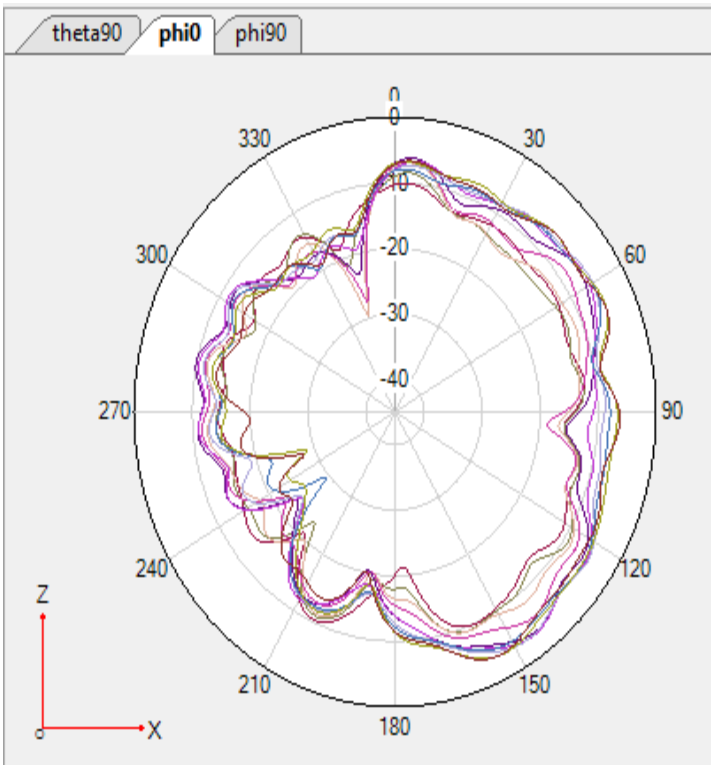

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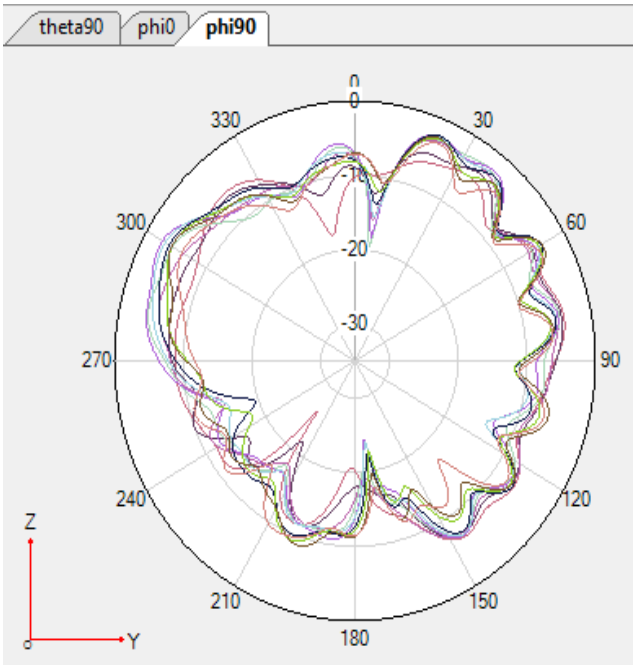

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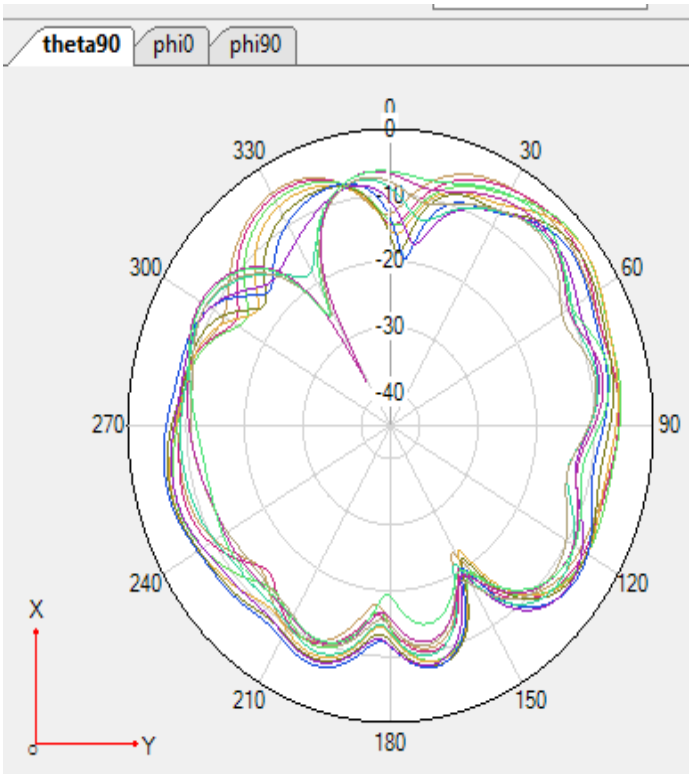

FOLD_WIFI_6E_MIMO2 Theta=90deg

PREPARED BY	CHECKEDBY	APPROVAL BY	S.R.NO	
			DATE:	2024/02/21