

Feature

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

Application

※ GSM850/900/DCS/PCS/WCDMA B1/B2/B4/B5/B8

LTE B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28/B38/B40/B41/B42/B66

NR Mode N1/N3/N5/N7/N8/N12/N20/N28/N38/N40/N41/N66/N77/N78/N71

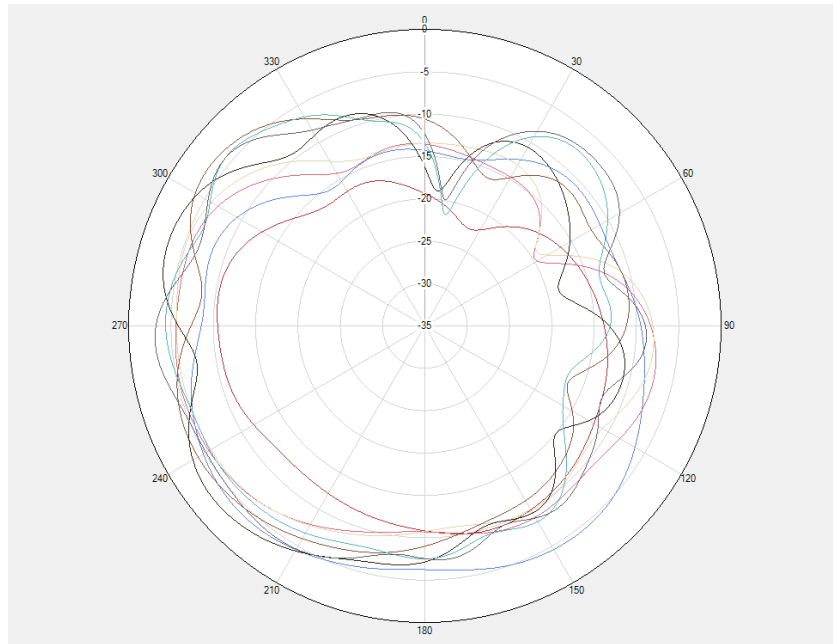
Name and address of the antenna manufacturer	Model number of the antenna
Welletronics Communication Technology Co.Ltd F1-3,Building 8, Tongfu Industrial Park,Dalang,Longhua District, Shenzhen,China	CM8-ANT0 CM8-ANT1 CM8-ANT2 CM8-ANT3 CM8-ANT4 CM8-ANT5 CM8-ANT6 CM8-ANT7 CM8-ANT8 CM8-ANT9 CM8-ANT12 CM8-ANT13 CM8-ANT14

Transmitter Frequency	GSM 850/WCDMA B5/LTE B5 NR n5: 824-849 MHz	
	GSM 900/WCDMA B8/LTE B8 NR n8: 880 - 915 MHz	
	DCS /WCDMA B4/LTE B3/B4/B66 NR n3/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	
	LTEB42/NR n77/n78:3300-4200MHz	
	NR n71:663-697MHz	
Receiver Frequency	GSM 850/WCDMA B5/LTE B5 NR n5: 869-894 MHz	
	GSM 900/WCDMA B8/LTE B8 NR n8: 925-960 MHz	
	DCS/LTE B3/B66 NR n3/n66: 1805 - 1880 MHz	
	WCDMA 4/LTE B4 NR n4: 2110-2155 MHz	
	PCS/WCDMA B2/LTE B2:1930-1990MHz	
	WCDMA B1/LTE B1 NR n1: 2110 - 2170MHz	
	LTE B7 NR n7:2620-2690MHz	
	LTE B40 NR n40:2300-2400MHz	
	LTE B38/41 NR n38/n41:2565-2645MHz	
	LTE B20 NR n20:791-821MHz	
	LTE B12/B17/B28 NR n12/n28:758-803MHz	
	LTE B42/NR n77/n78:3300-4200MHz	
	NR n71:617-651MHz	
Antenna Gain	ANT0	B42/N77/N78:-3 dBi
		WIFI 5G:-1dBi
	ANT2	GSM 850/WCDMA B5/LTE B5 NR n5: -8 dBi
		GSM 900/WCDMA B8/LTE B8 NR n8: -5.6dBi
		LTE B12/B17/B28 NR n12/n28:-6.5dBi
		LTE B20 NR n20:-8 dBi
		NR n71:-10.5 dBi
	ANT3	DCS /WCDMA B4/LTE B3/B4/B66 NR n3/n66: -2.8 dBi
		PCS/WCDMA B2/LTE B2: -3 dBi
		WCDMA B1/LTE B1 NR n1: -3dBi
		LTE B7/B38/B41 NR n7/n38/n41: -3.2dBi

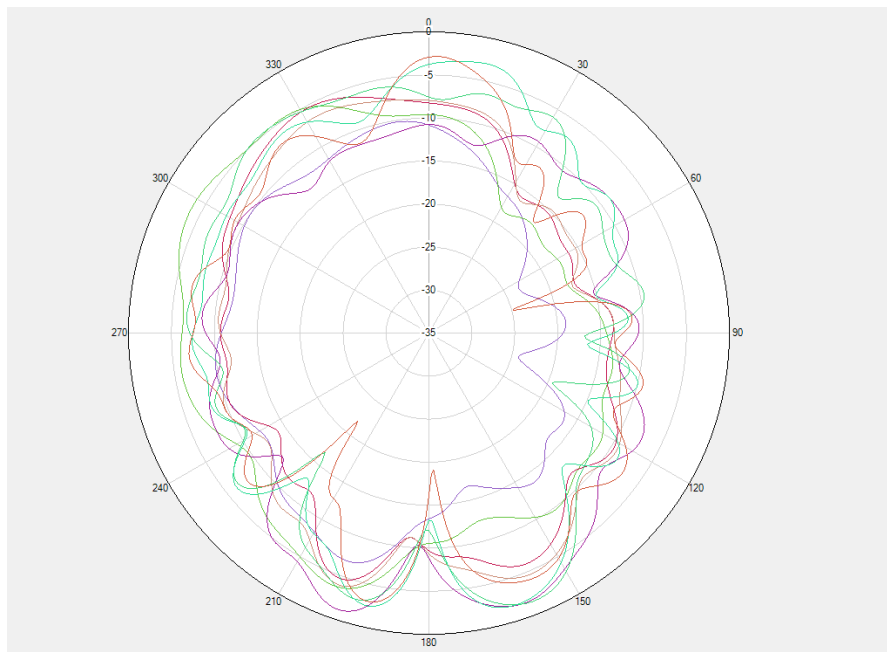
		LTE B40 NR n40: -2 dBi
	ANT4	GSM 850/WCDMA B5/LTE B5 NR n5: -6.2dBi
		GSM 900/WCDMA B8/LTE B8 NR n8: -7.5dBi
		LTE B12/B17/B28 NR n12/n28:-9dBi
		LTE B20 NR n20:-10 dBi
		NR n71:-15 dBi
	ANT5	DCS /WCDMA B4/LTE B3/B4/B66 NR n3/n66: 1.7 dBi
		PCS/WCDMA B2/LTE B2: -7 dBi
		WCDMA B1/LTE B1 NR n1: -5.6dBi
		LTE B7/B38/B41 NR n7/n38/n41: -5dBi
		LTE B40 NR n40: 0.2dBi
	ANT6	B42/N77/N78:-4 dBi
	ANT7(ENDC)	B1:-3.8 dBi
		B3:-3.5dBi
		B7/B38/B40/B41:-8 dBi
	ANT8	B42/N77/N78:-2.5dBi
	ANT9	B42/N77/N78:-1.6 dBi
	ANT12	GPS(L1):-2.3 dBi
		BT/WIFI 2.4G: -2.2 dBi
	ANT13	WIFI 5G: 1.5 dBi
	ANT14	GPS(L5):-6.8 dBi
		BT/WIFI 2.4G:-3 dBi

※ Antenna Gain

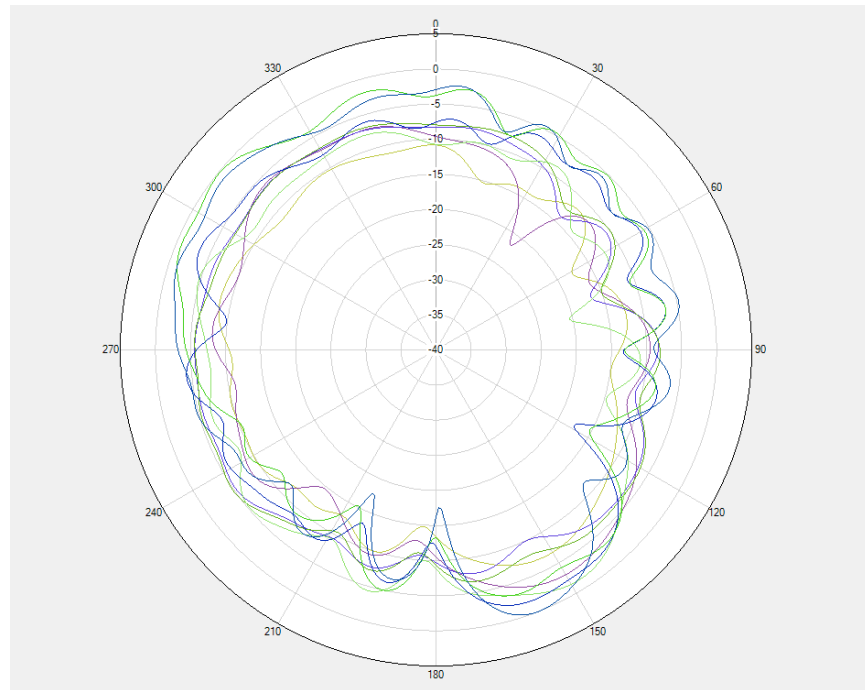
ANT0



B42/N77/78&wifi 5G Phi=0deg



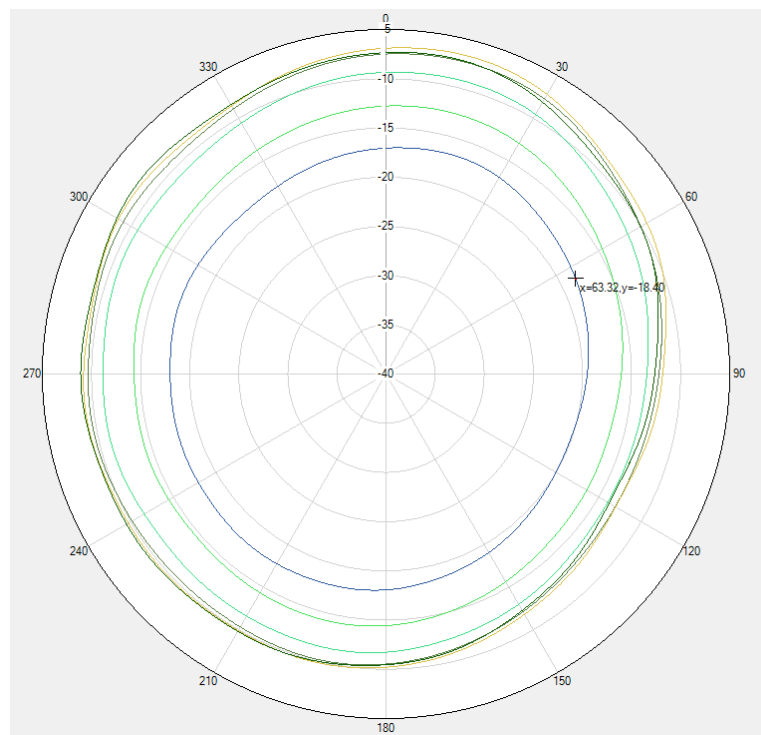
B42/N77/78&wifi 5G Phi=90deg



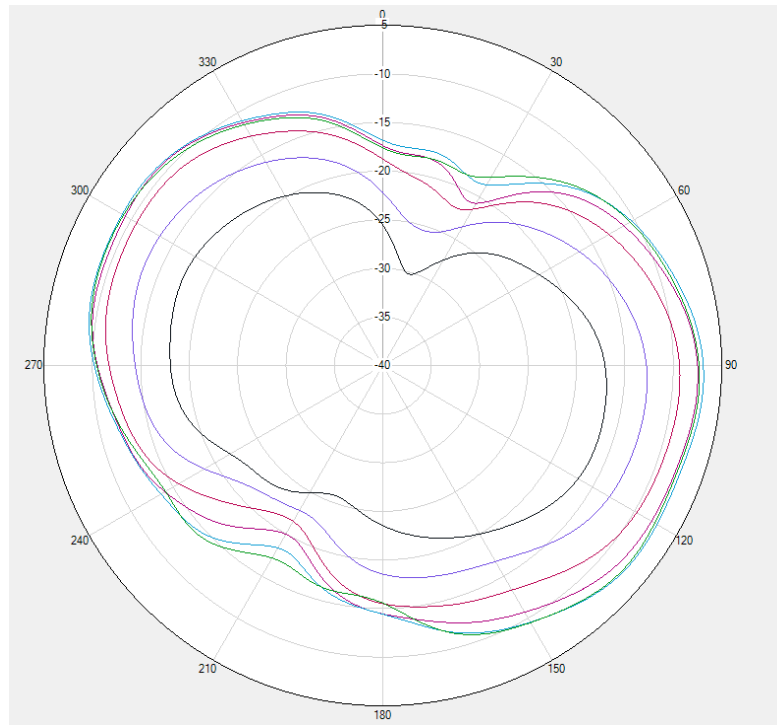
B42/N77/78&wifi 5G Theta=90deg

※ Antenna Gain

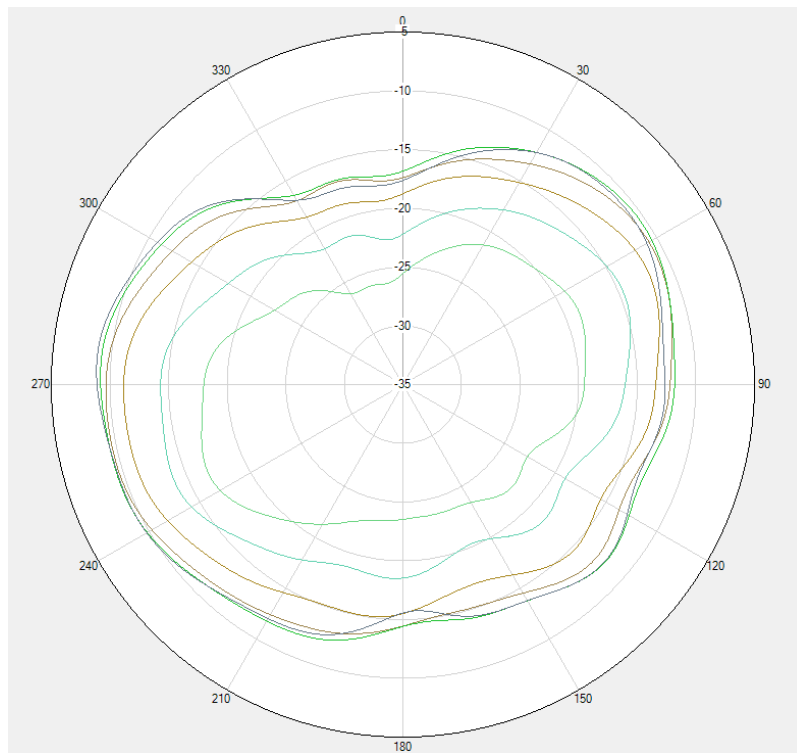
ANT2



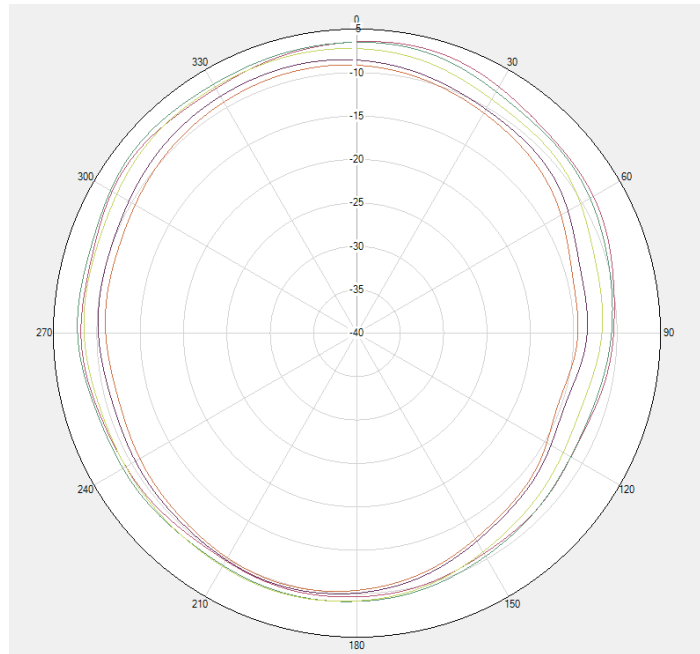
N71 Phi=0deg



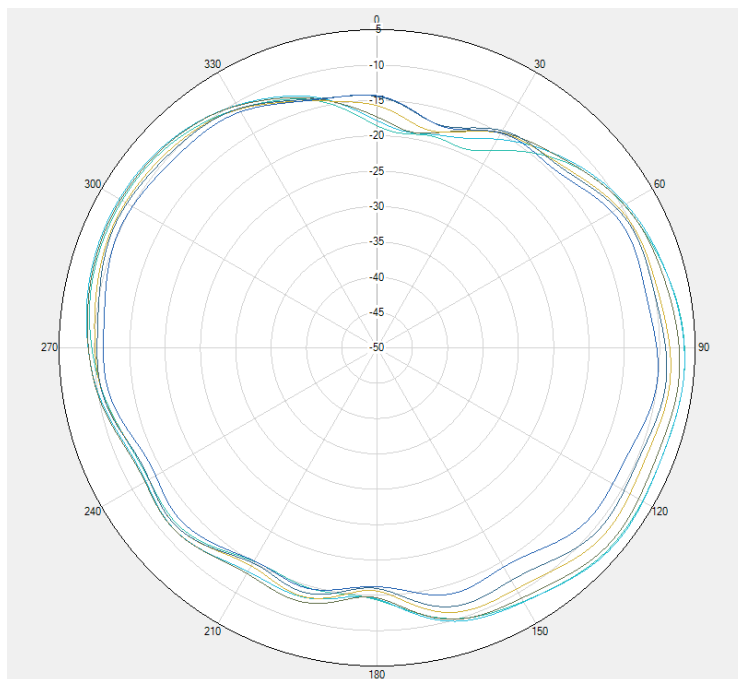
N71 $\Phi=90^\circ$



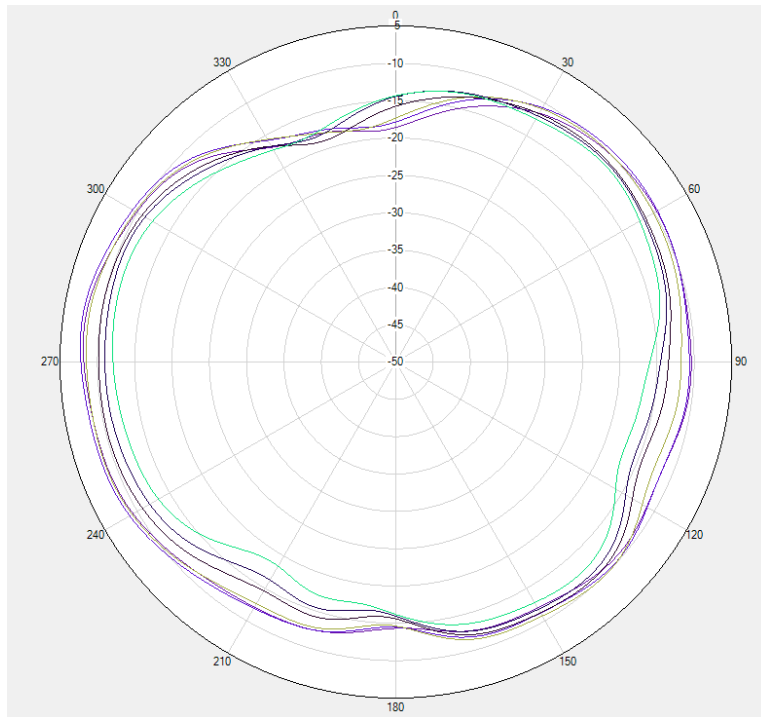
N71 $\Theta=90^\circ$



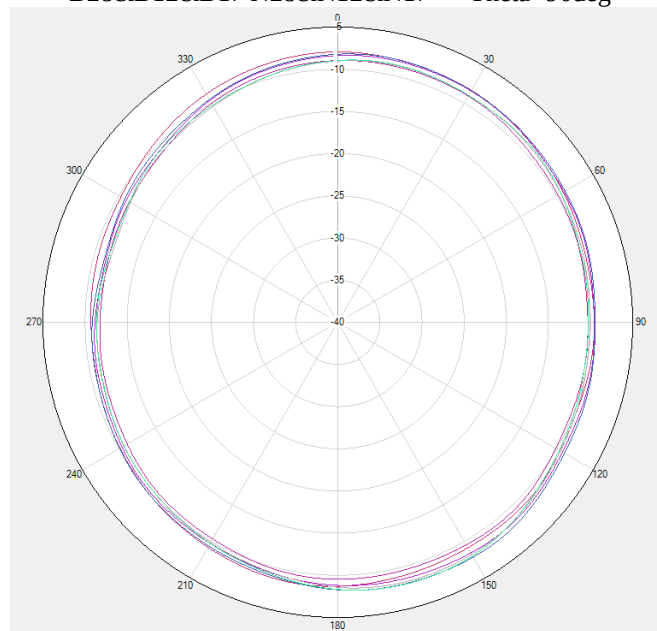
B28&B12&B17 N28&N12&N17 Phi=0deg



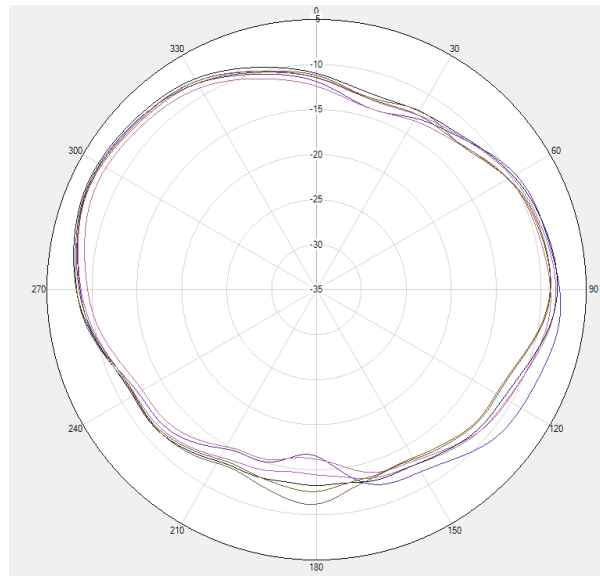
B28&B12&B17 N28&N12&N17 Phi=90deg



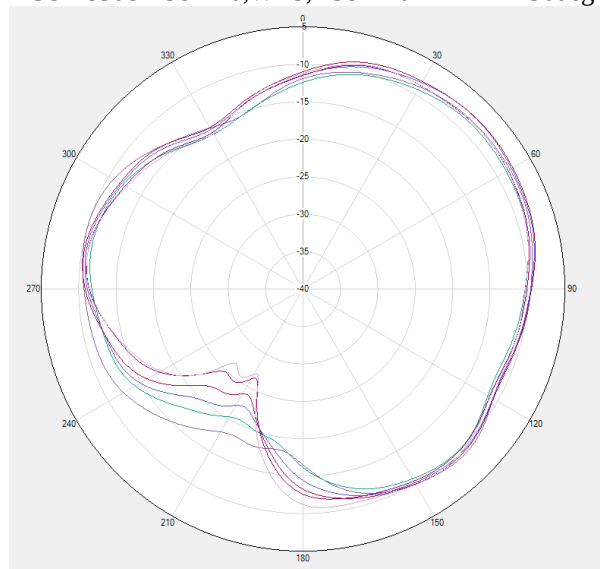
B28&B12&B17 N28&N12&N17 Theta=90deg



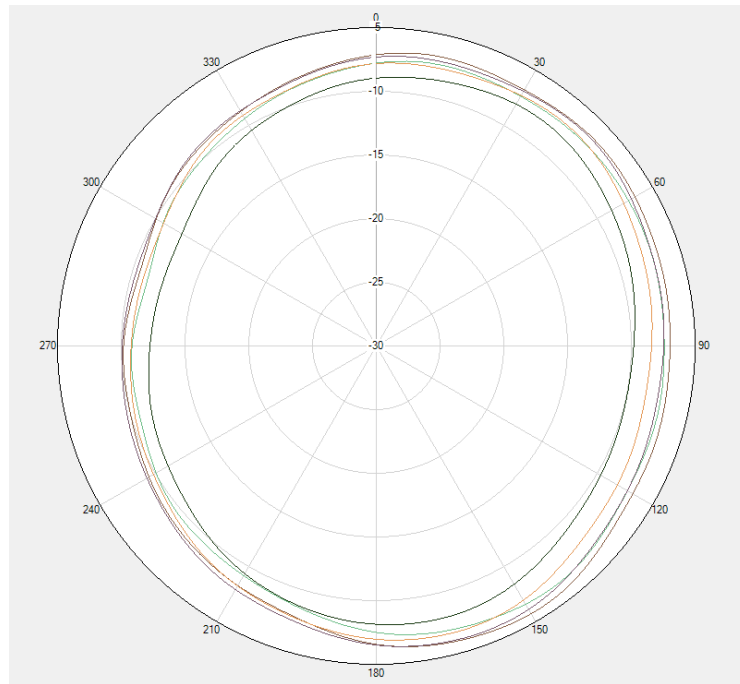
GSM850&B5&B20,WB5,N5&N20 Phi=0deg



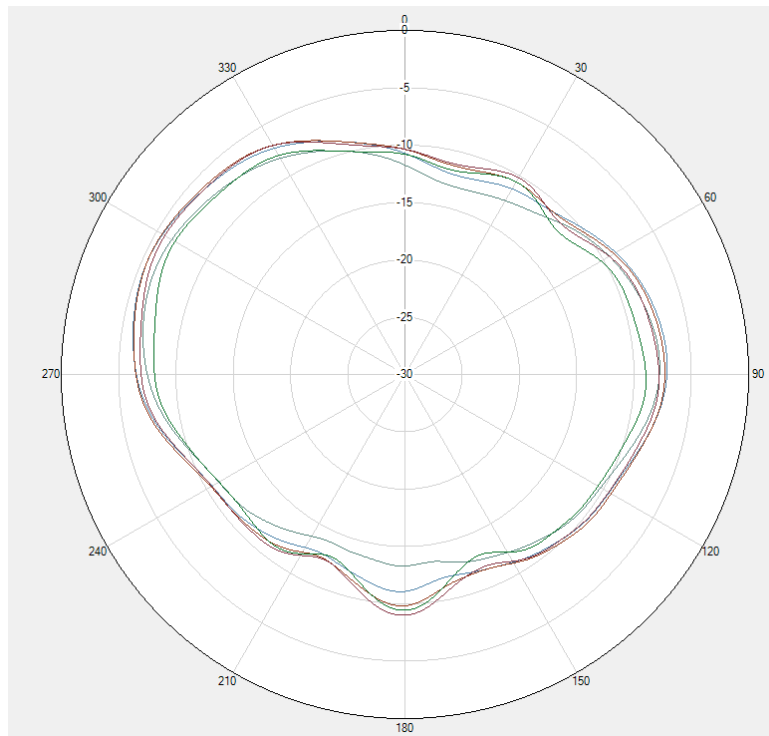
GSM850&B5&B20, WB5, N5&N20 $\Phi=90^\circ$



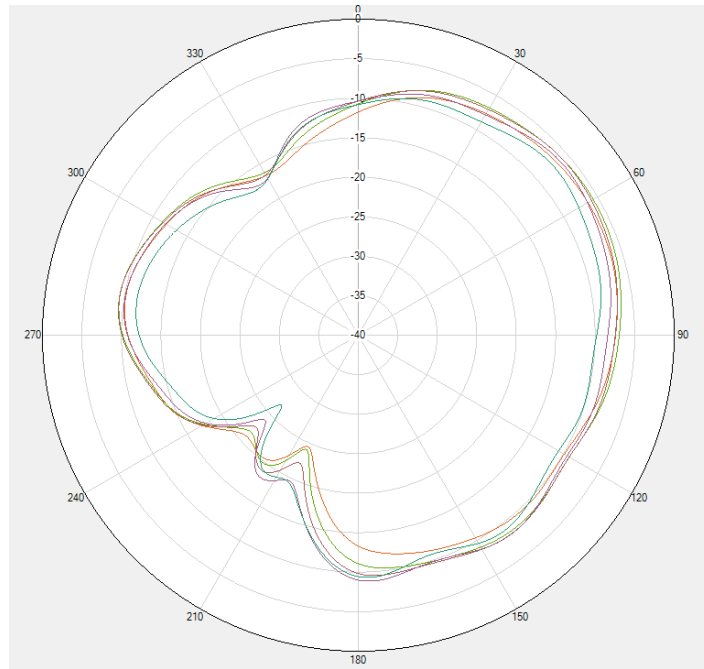
GSM850&B5&B20, WB5, N5&N20 $\Theta=90^\circ$



GSM900,B8,N8,WB8 $\Phi=0^\circ$

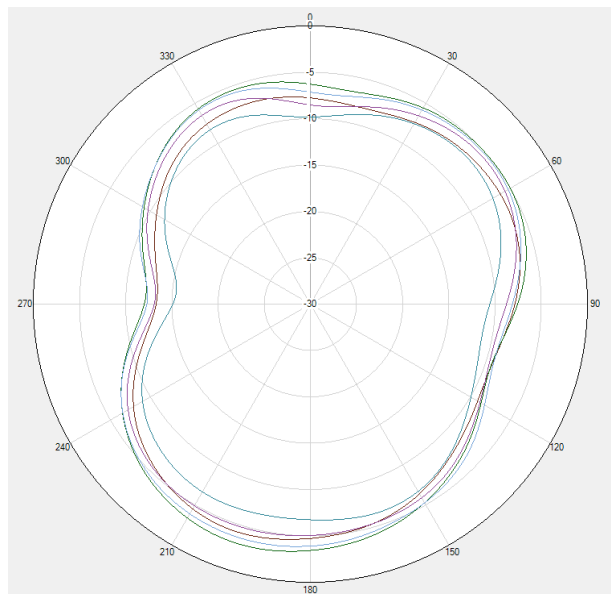


GSM900,B8,N8,WB8 $\Phi=90^\circ$

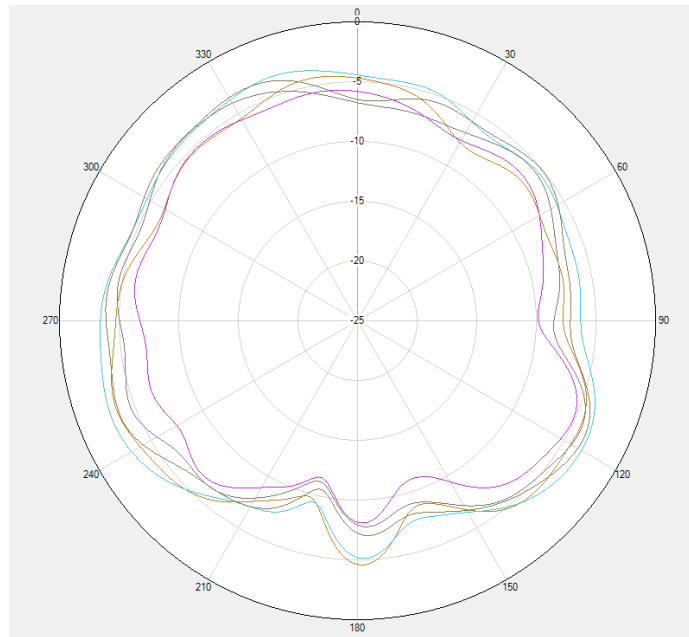


GSM900,B8,N8,WB8 Theta=90deg

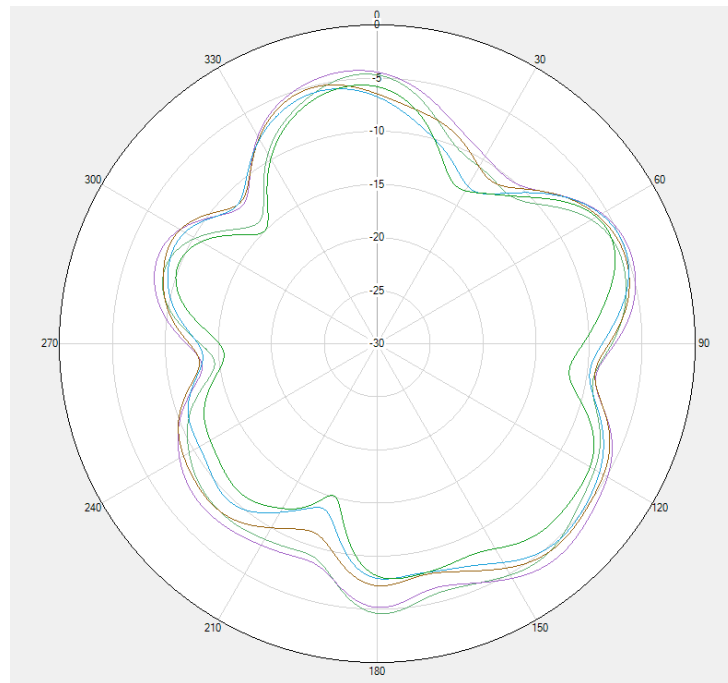
ANT3



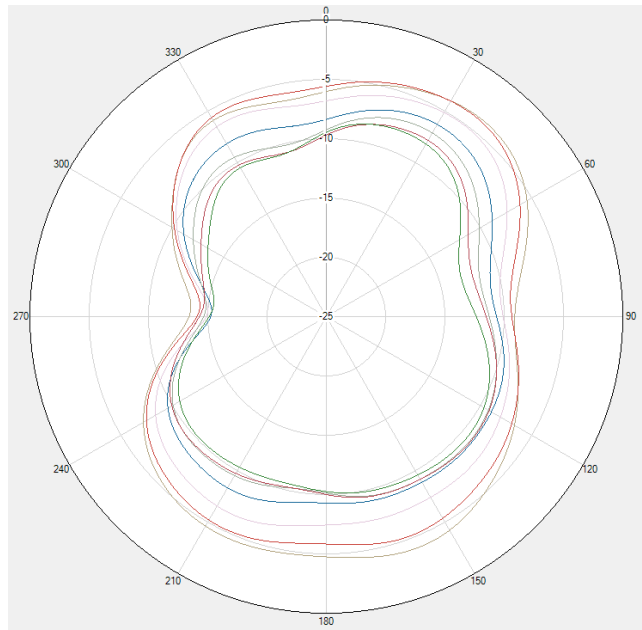
DCS /WCDMA B4/LTE B3/B4/B66 NR n3/n66 Phi=0deg



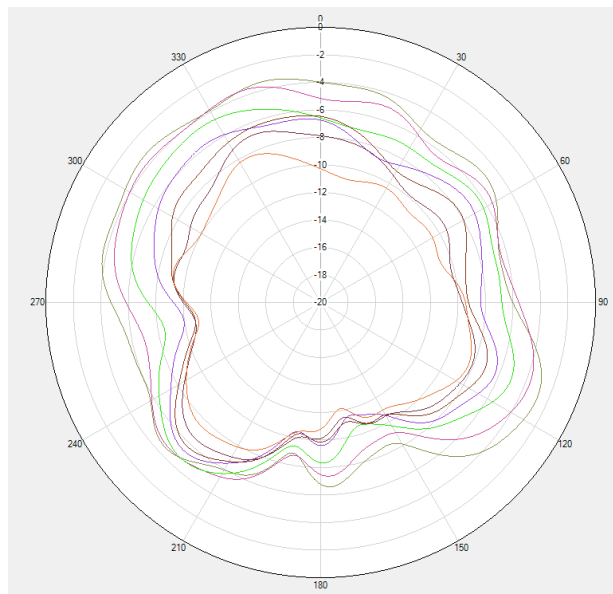
DCS /WCDMA B4/LTE B3/B4/B66 NR n3/n66 Phi=90deg



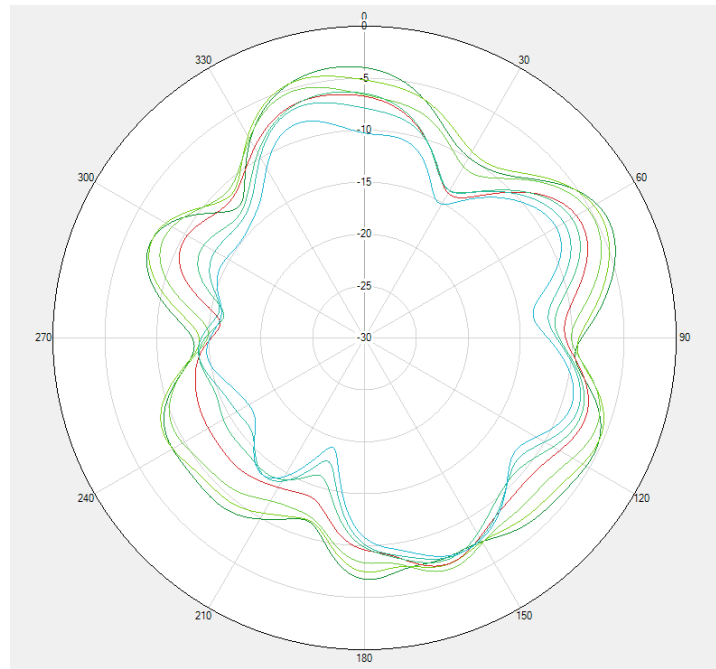
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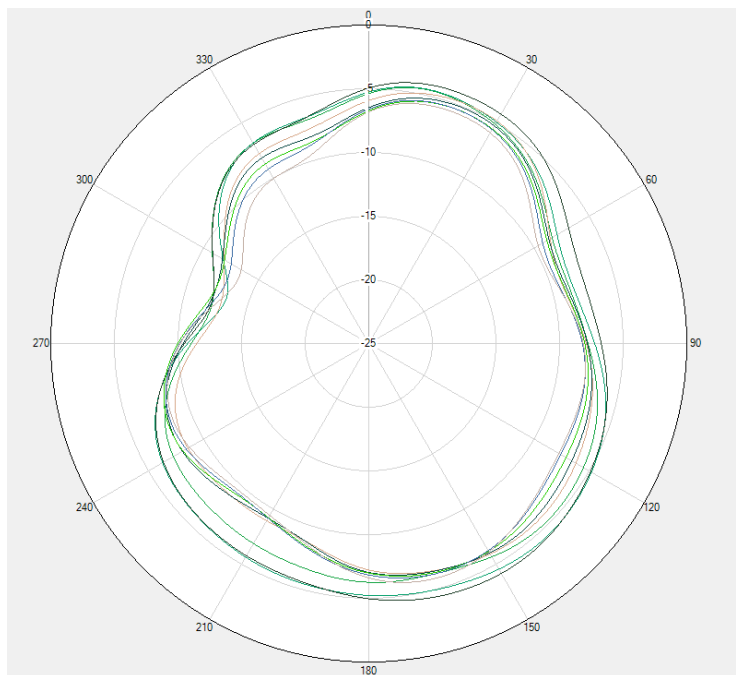
WCDMA B1/LTE B1/ PCS/WCDMA B2/LTE B2 $\Phi=0^\circ$



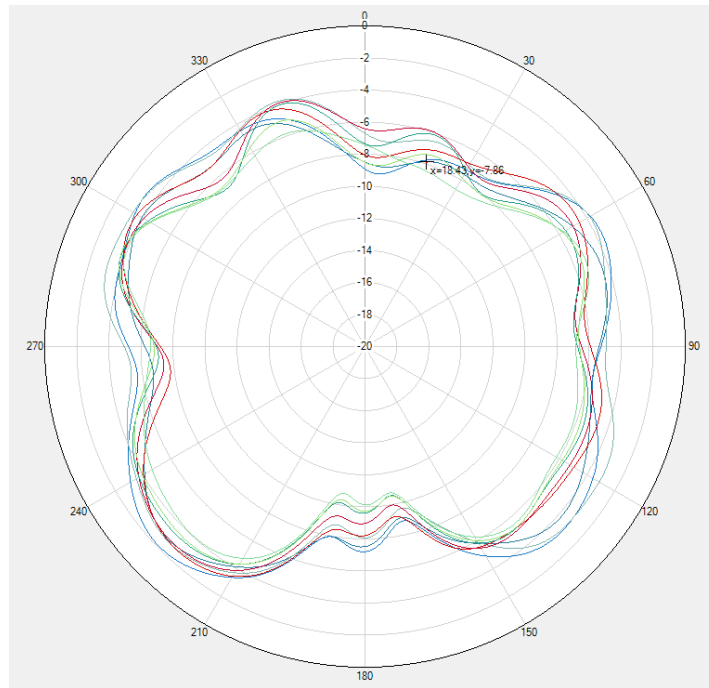
WCDMA B1/LTE B1/ PCS/WCDMA B2/LTE B2 $\Phi=90^\circ$



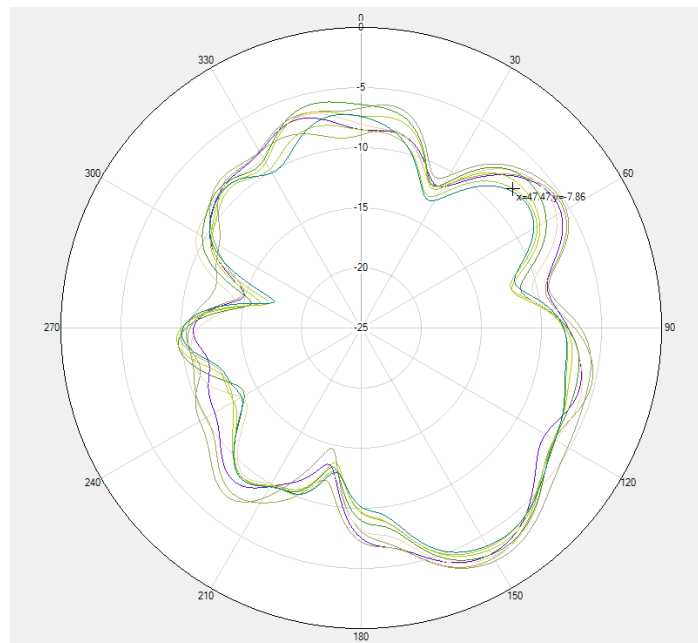
WCDMA B1/LTE B1/ PCS/WCDMA B2/LTE B2 Theta=90deg



LTE B7/B38/B41 NR n7/n38/n41/LTE B40 NR n40Phi=0deg



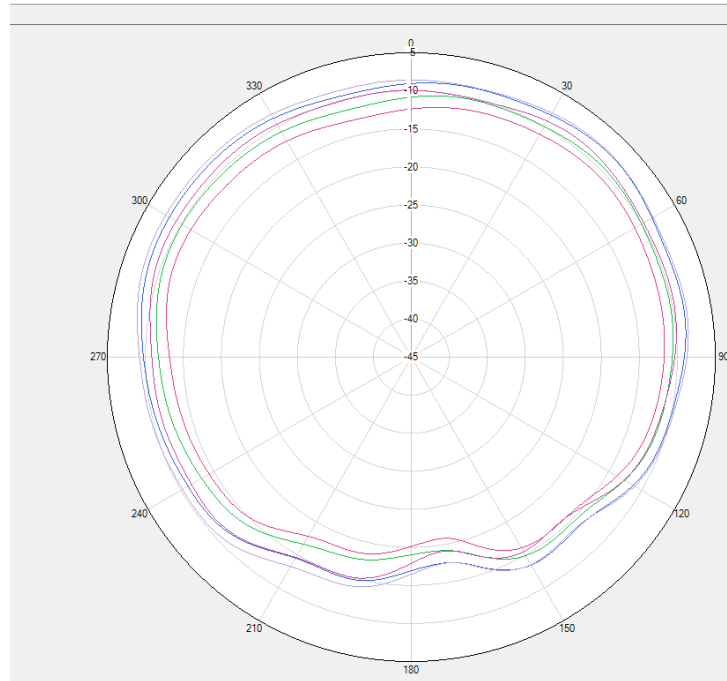
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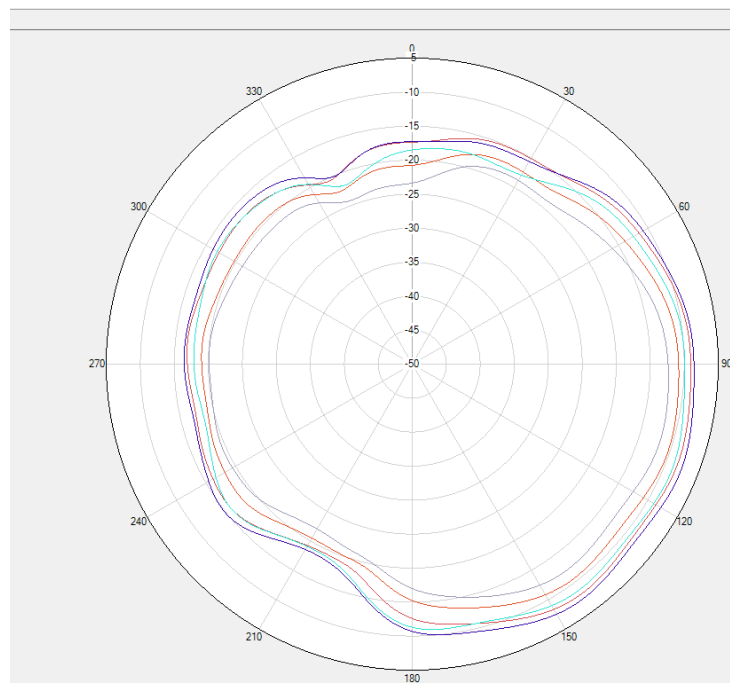
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※ Antenna Gain

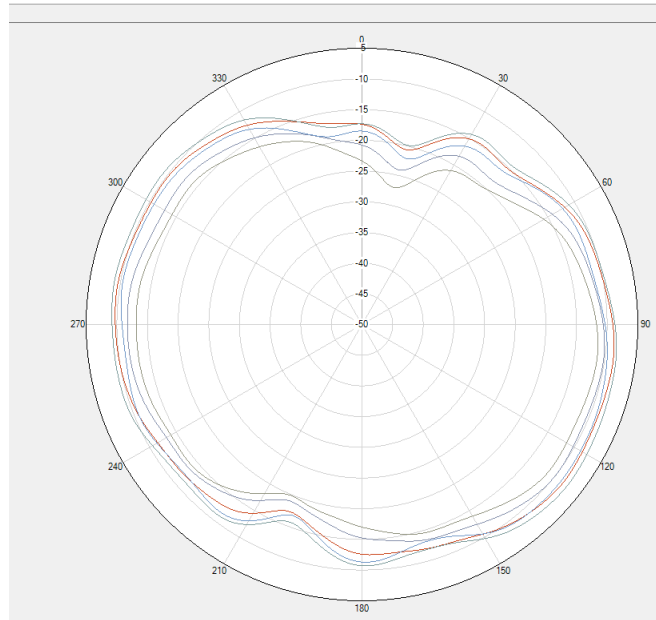
ANT4



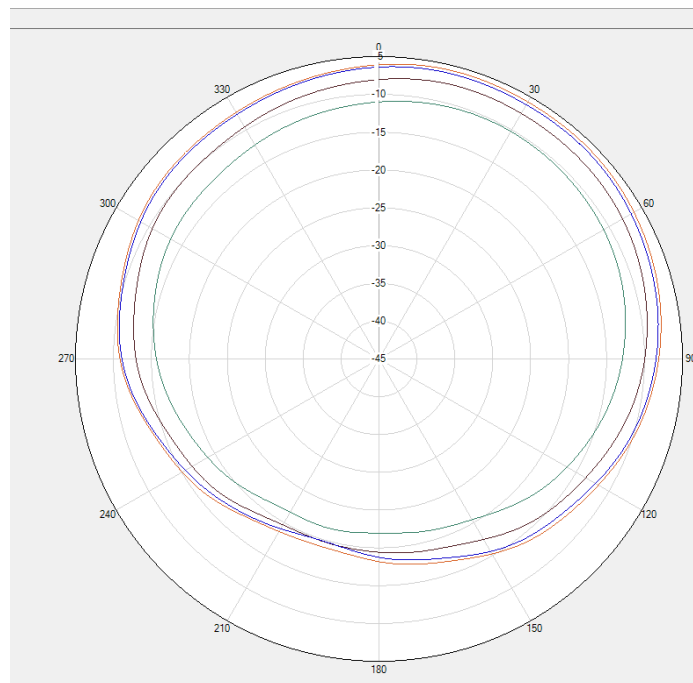
GSM900,B8,N8,WB8 Phi=0deg



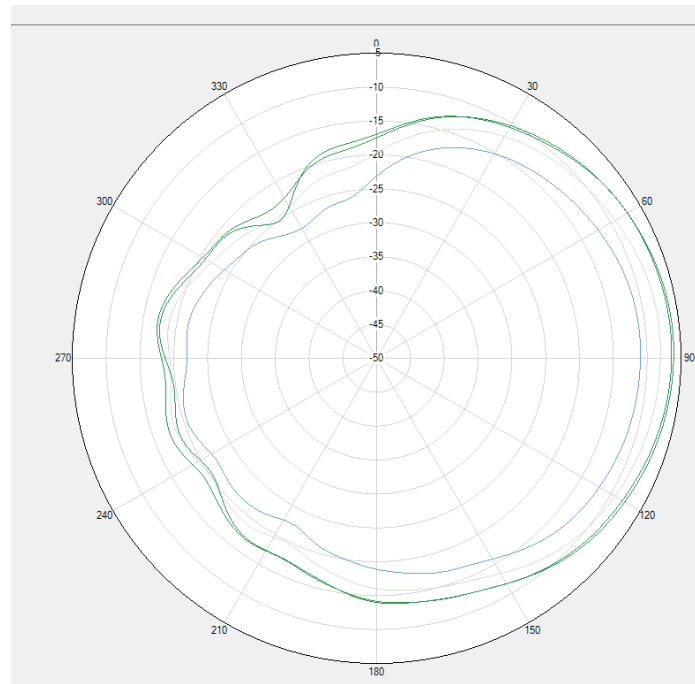
GSM900,B8,N8,WB8 Phi=90deg



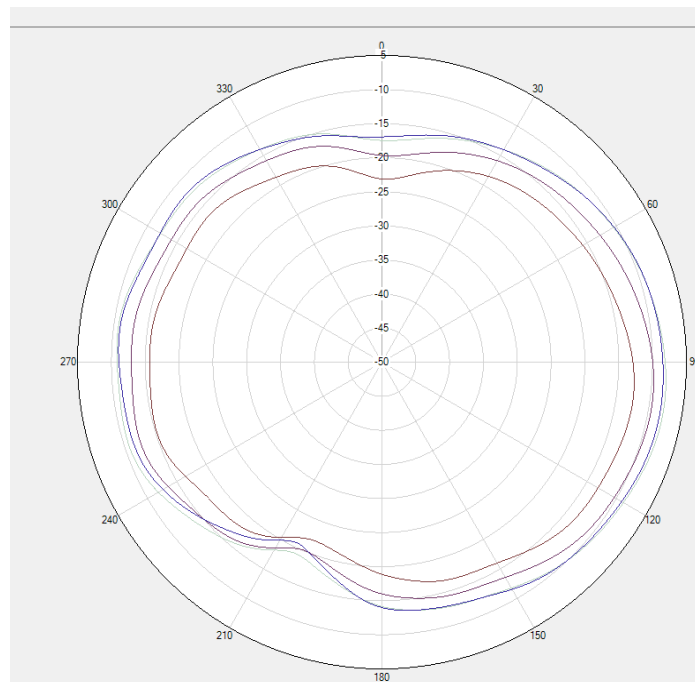
GSM900,B8,N8,WB8 Theta=90deg



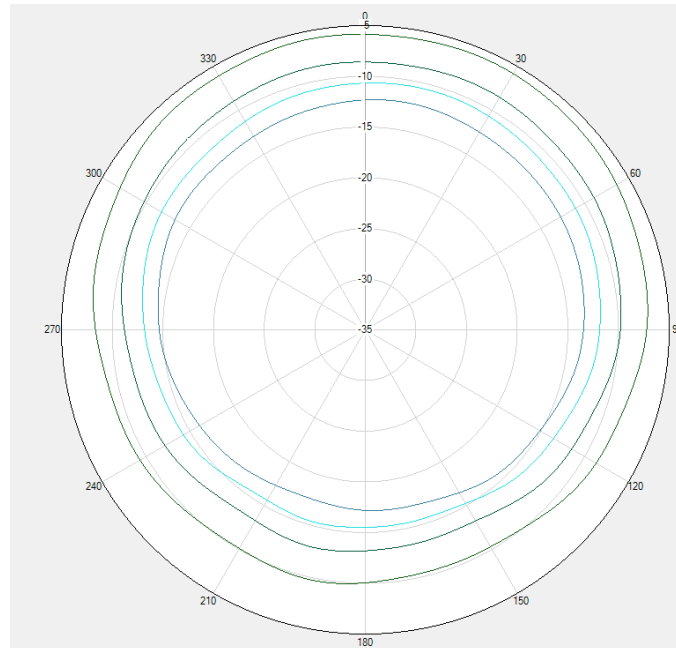
GSM850&B5,WB5,N5 Phi=0deg



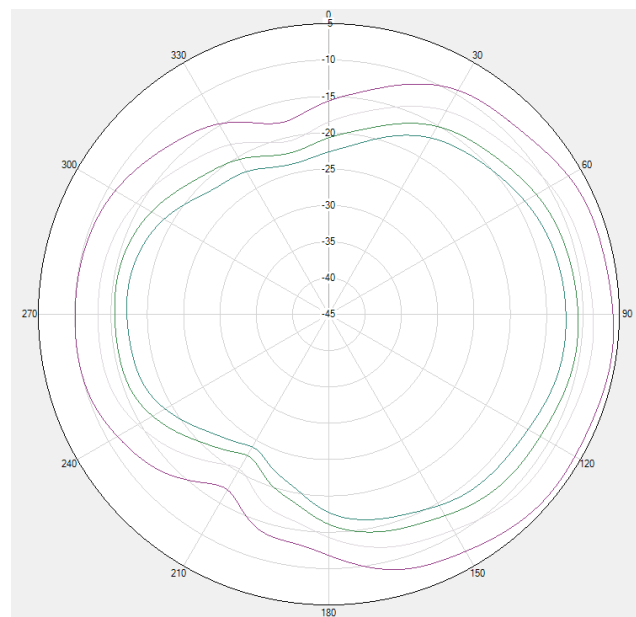
GSM850&B5, WB5, N5 $\Phi=90^\circ$



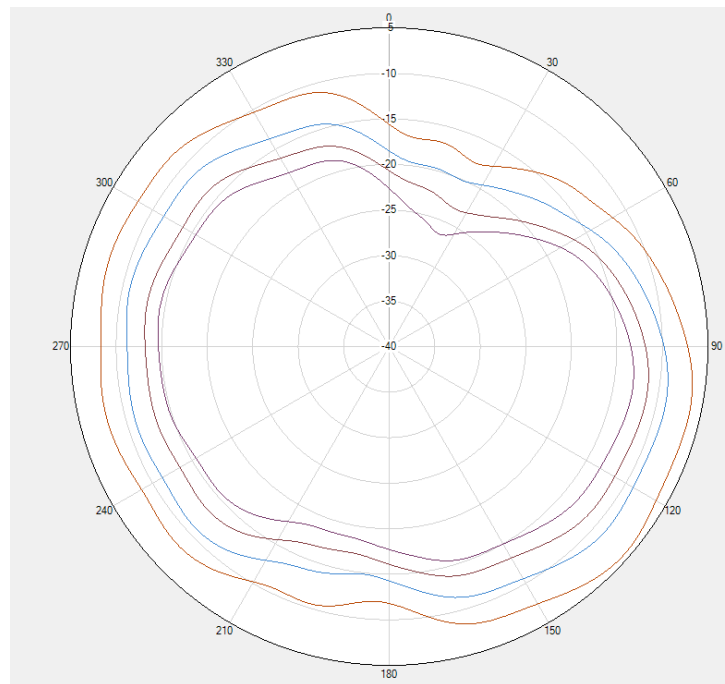
GSM850&B5, WB5, N5 $\Theta=0^\circ$



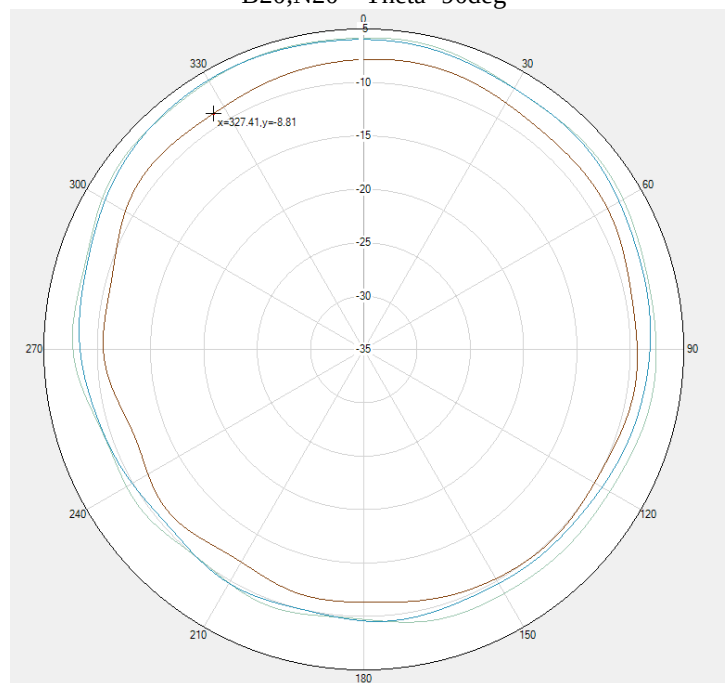
B20,N20 $\Phi=0^\circ$



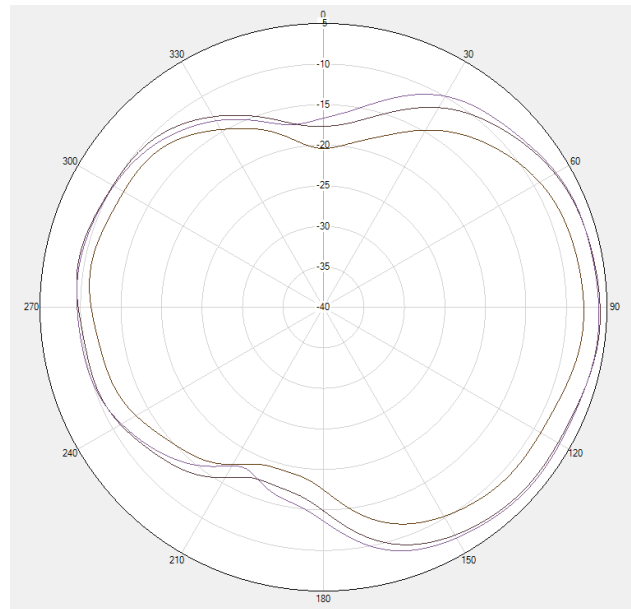
B20,N20 $\Phi=90^\circ$



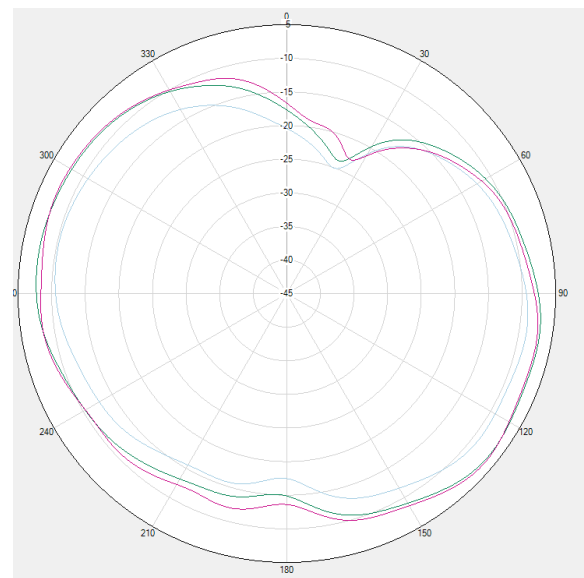
B20,N20 Theta=90deg



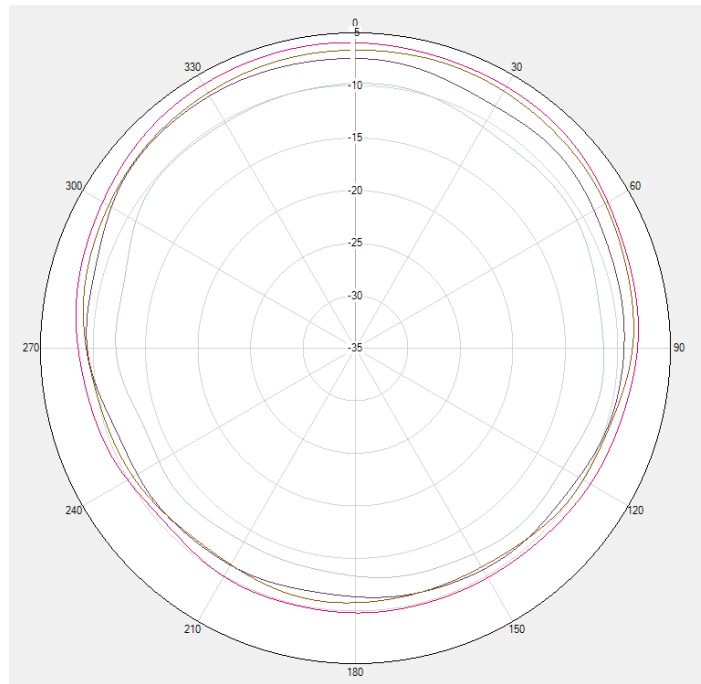
B12,B17,N12 Phi=0deg



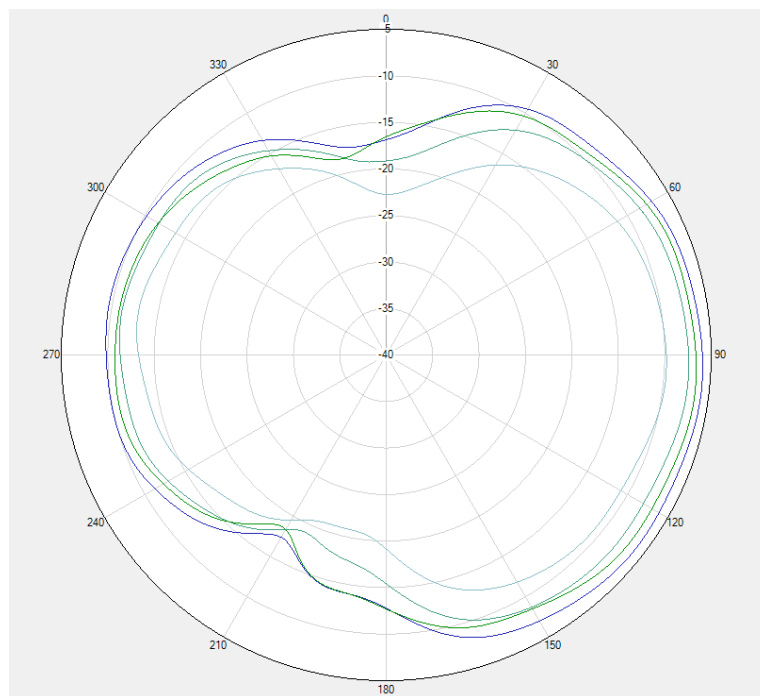
B12,B17,N12 $\Phi=90\text{deg}$



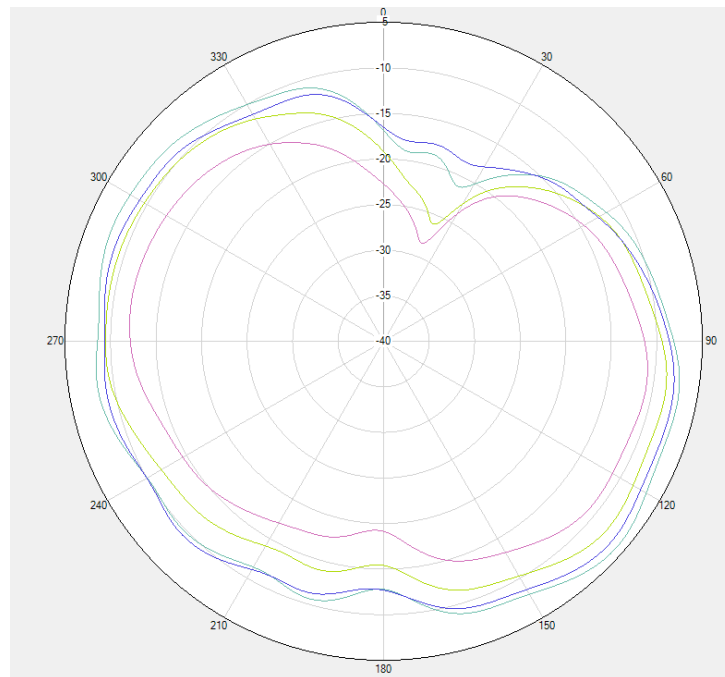
B12,B17,N12 $\Theta=90\text{deg}$



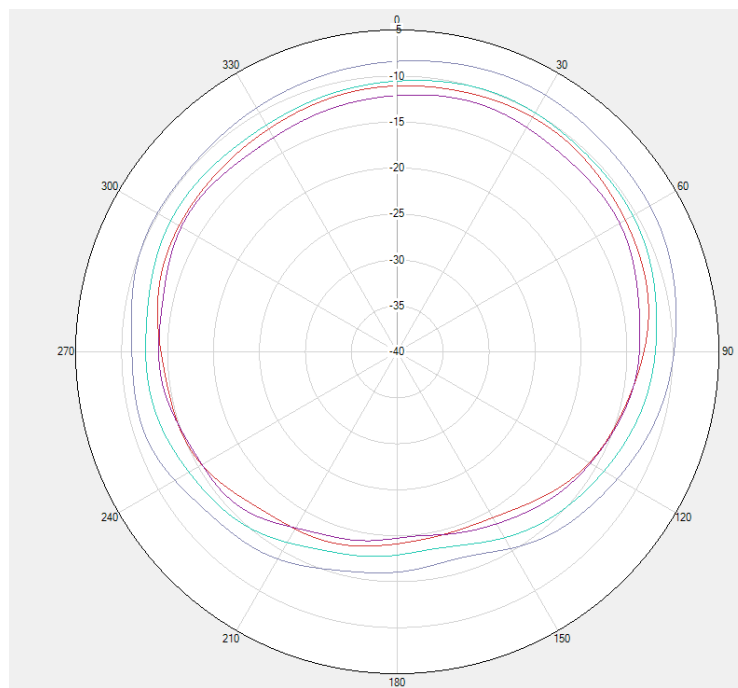
B28,N28 $\Phi=0^\circ$



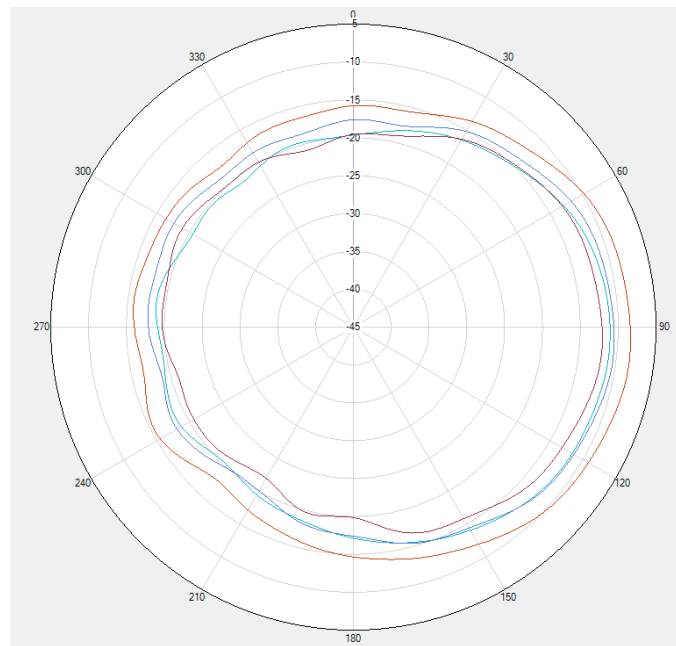
B28,N28 $\Phi=90^\circ$



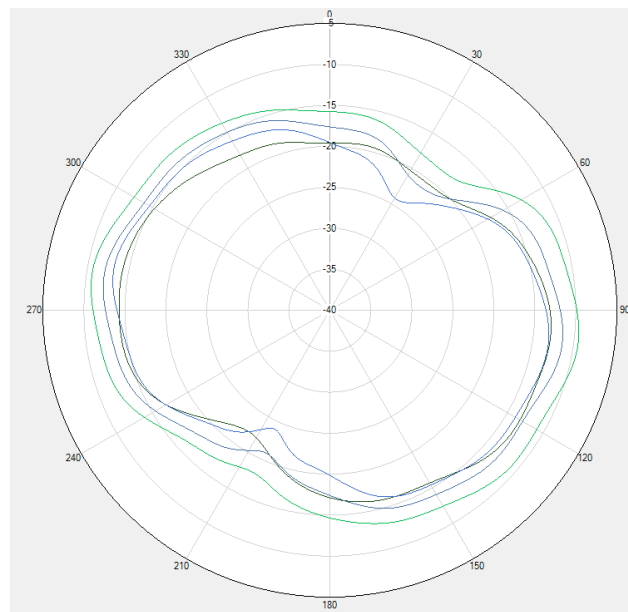
B28,N28 Theta=90deg



N71 Phi=0deg



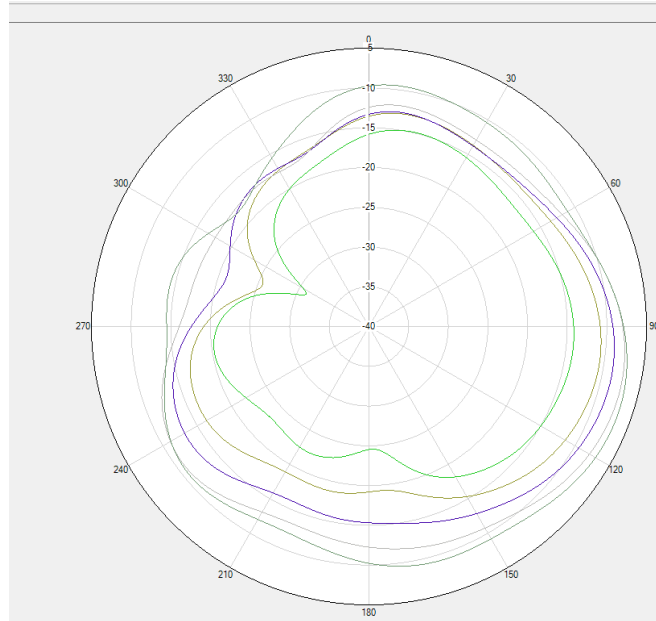
N71 $\Phi = 90^\circ$



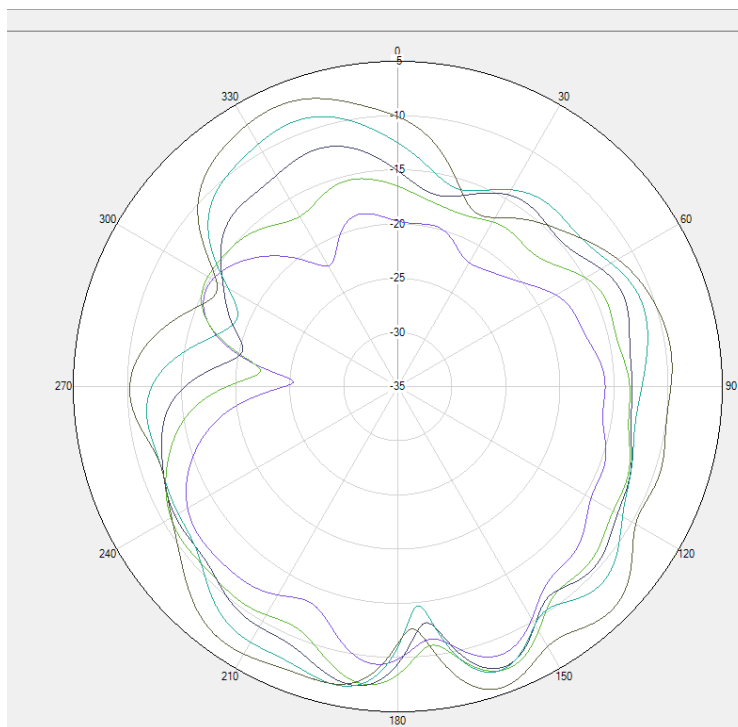
N71 $\Theta = 90^\circ$

※ Antenna Gain

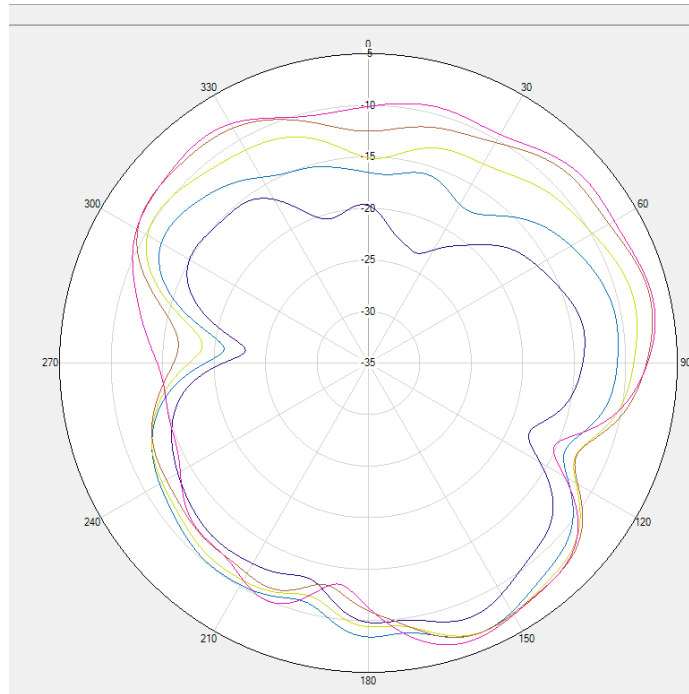
ANT5



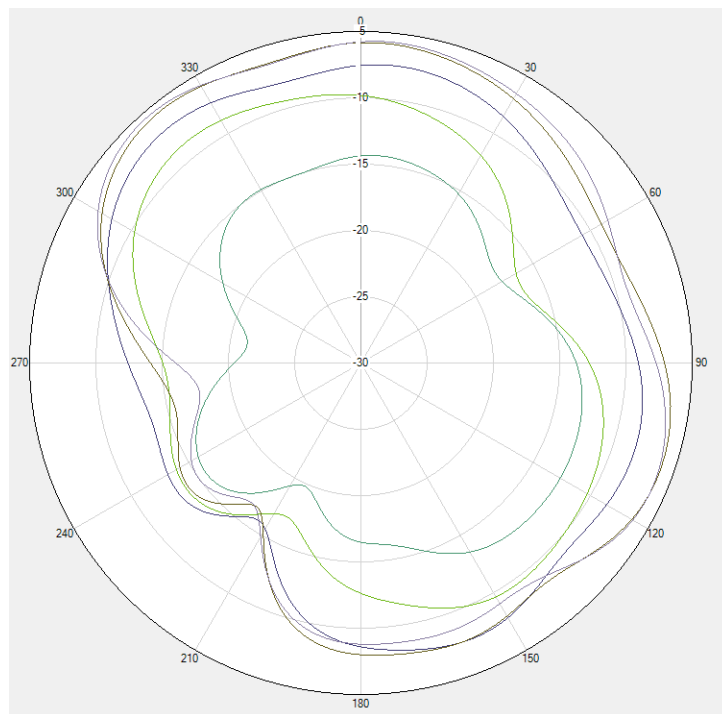
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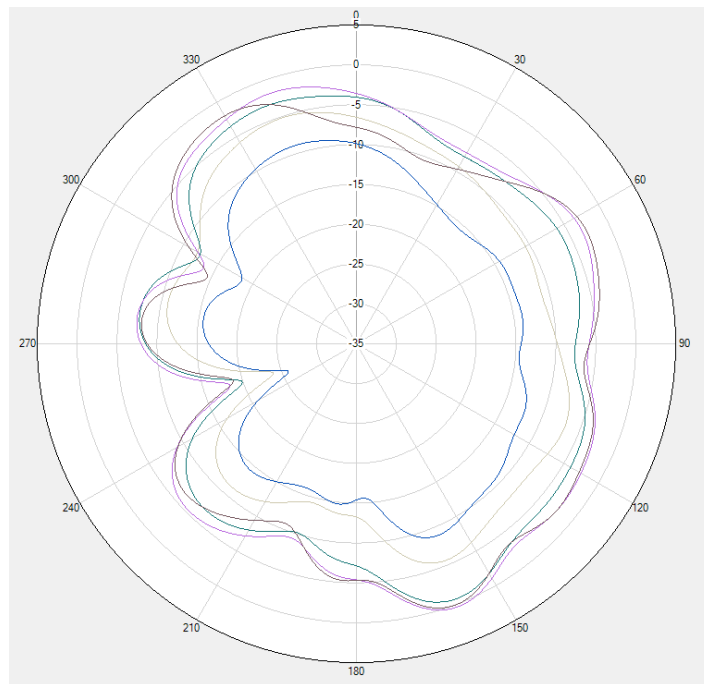
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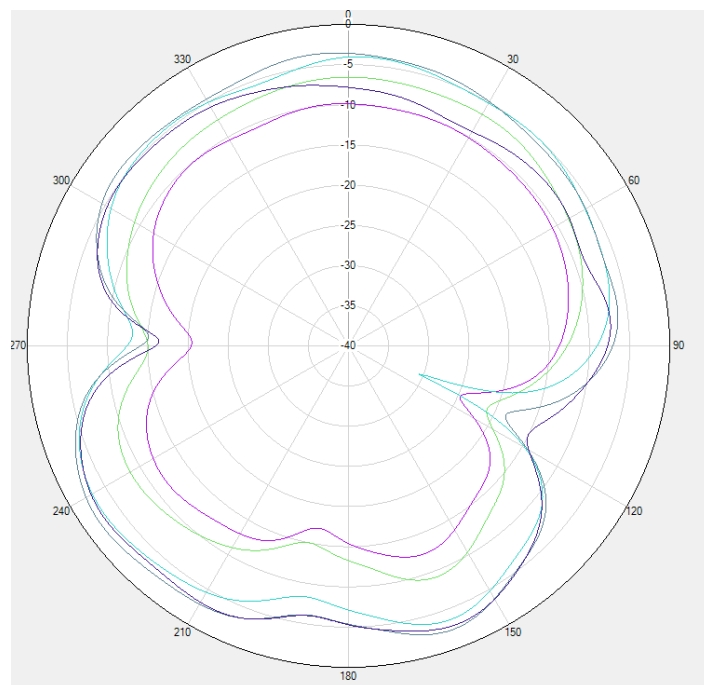
LTE DCS/PCS/WB2/B2/B3/B4/B66 NR n3/n66 Theta=90deg



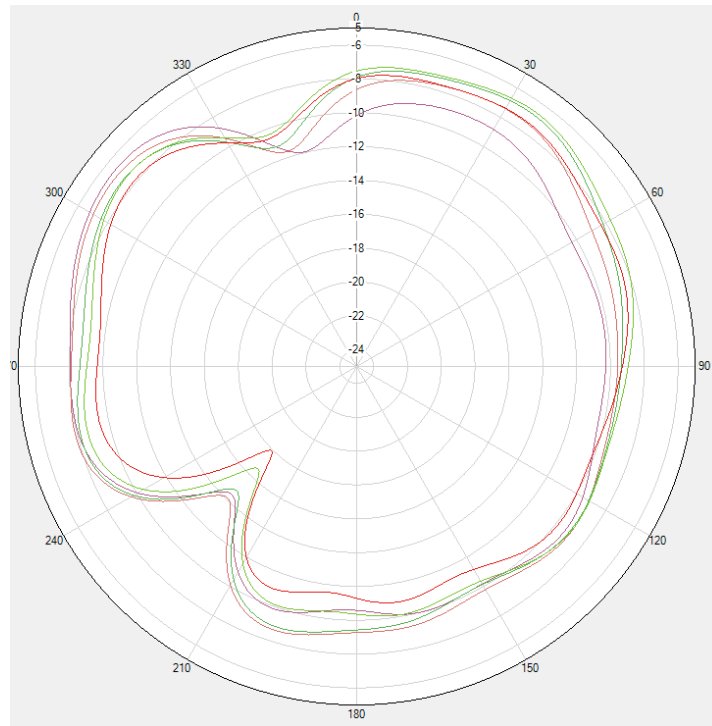
LTE B1/NR n1 Phi=0deg



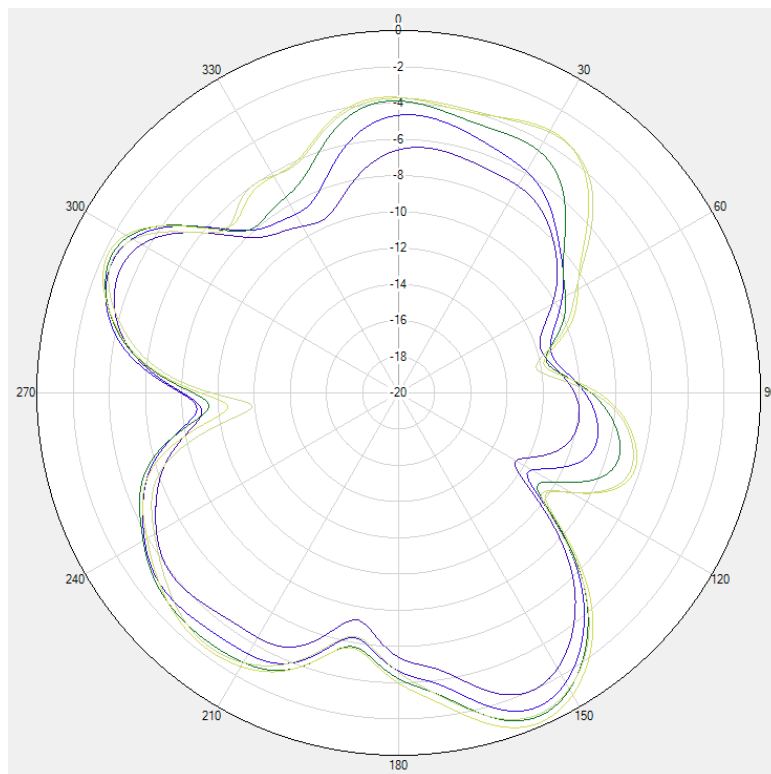
LTE B1/NR n1 Phi=90deg



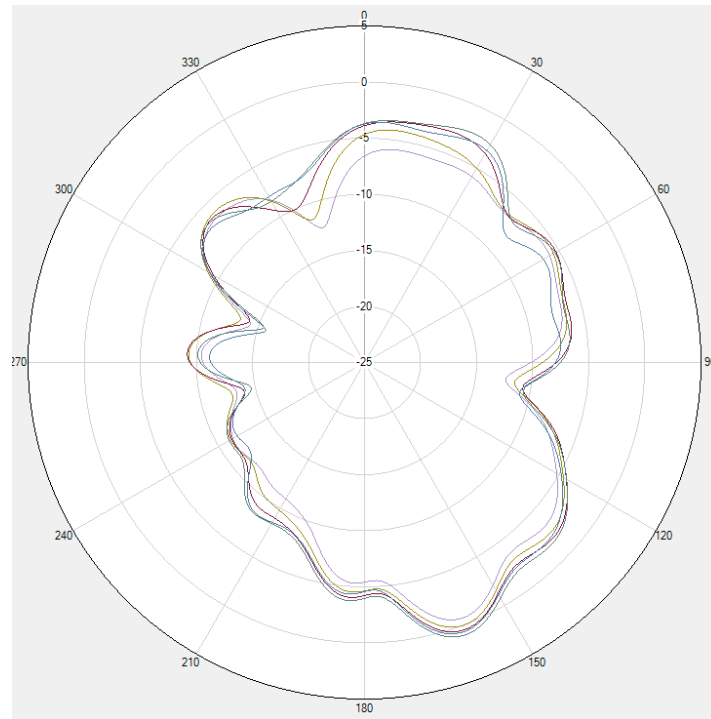
LTE B1/NR n1 Theta=90deg



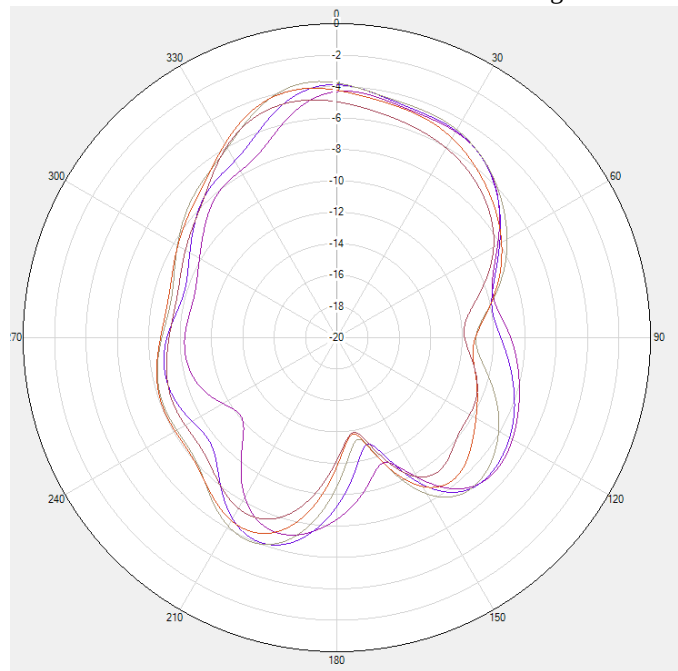
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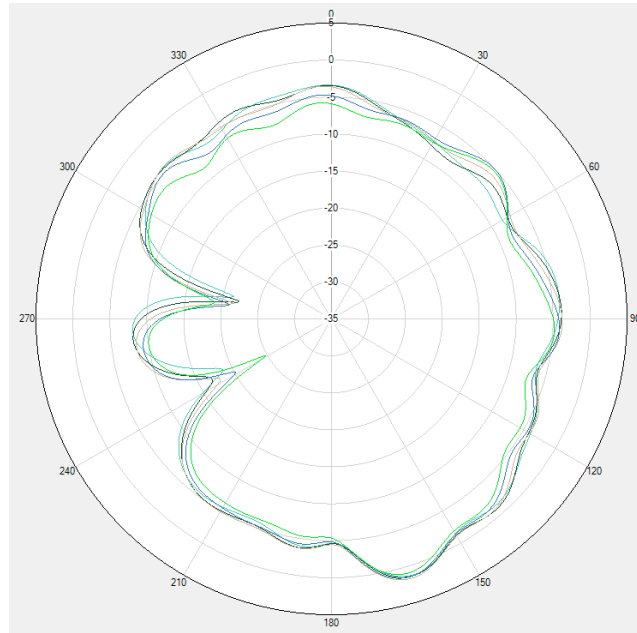
LTE B40/NR n40 $\Phi=90^\circ$



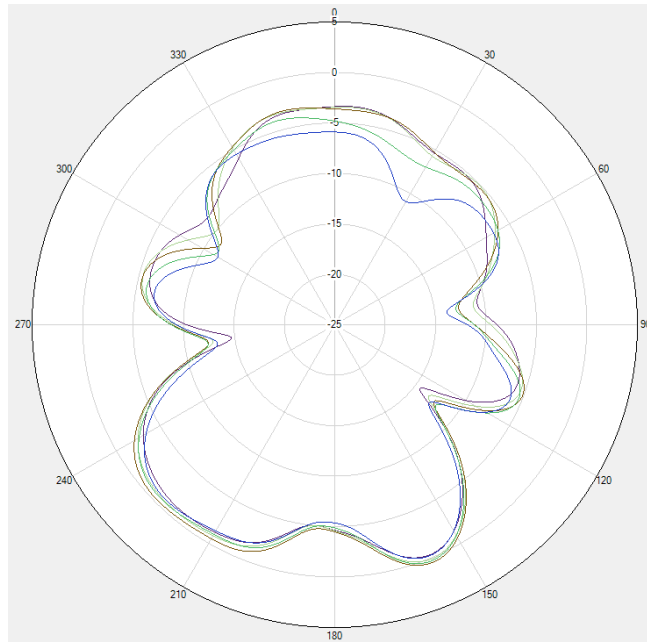
LTE B40/NR n40 Theta=90deg



LTE B7/B38/B40/41 NR n7/n38/n40/n41 Phi=0deg



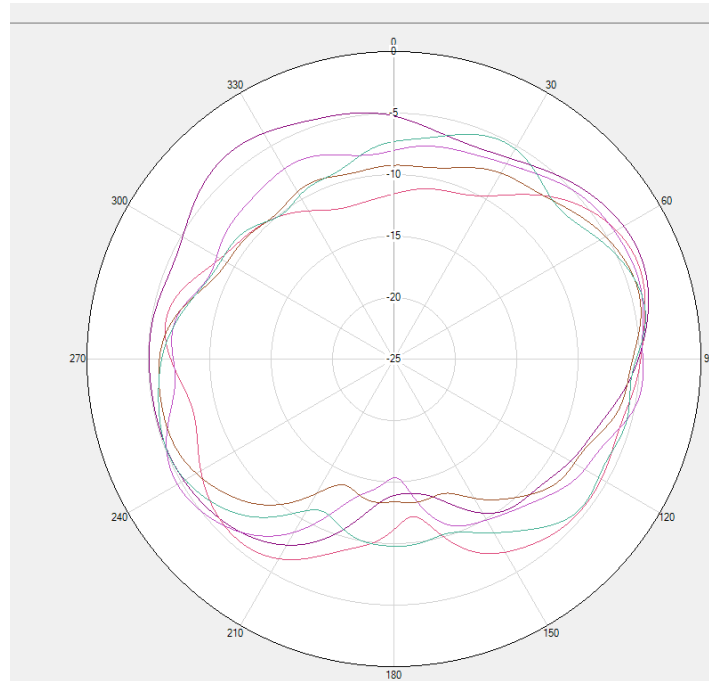
LTE B7/B38/B40/41 NR n7/n38/n40/n41 $\Phi=90^\circ$



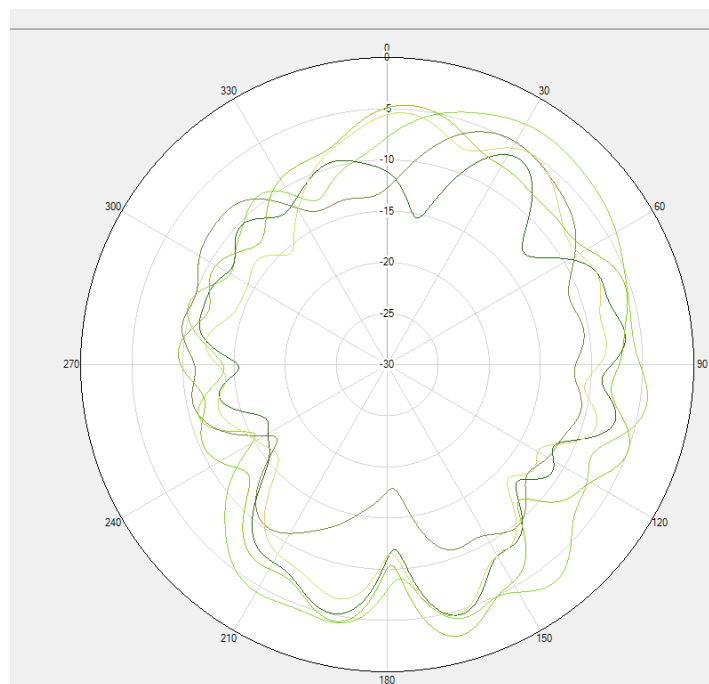
LTE B7/B38/B40/41 NR n7/n38/n40/n41 $\Theta=90^\circ$

※ Antenna Gain

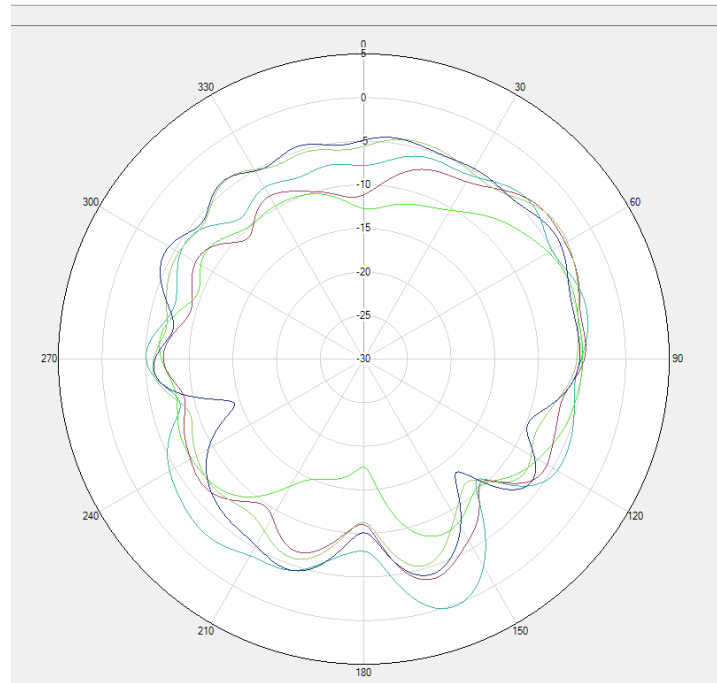
ANT6



B42/NR n77/78 Phi=0deg



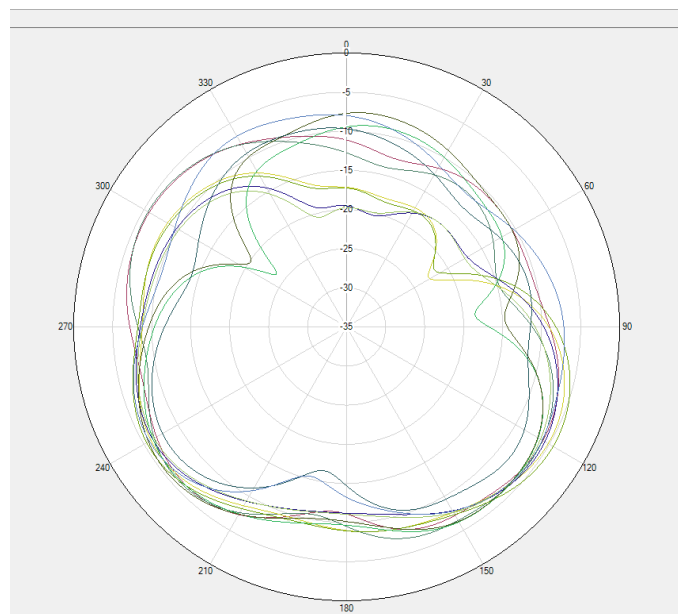
B42/NR n77/78 Phi=90deg



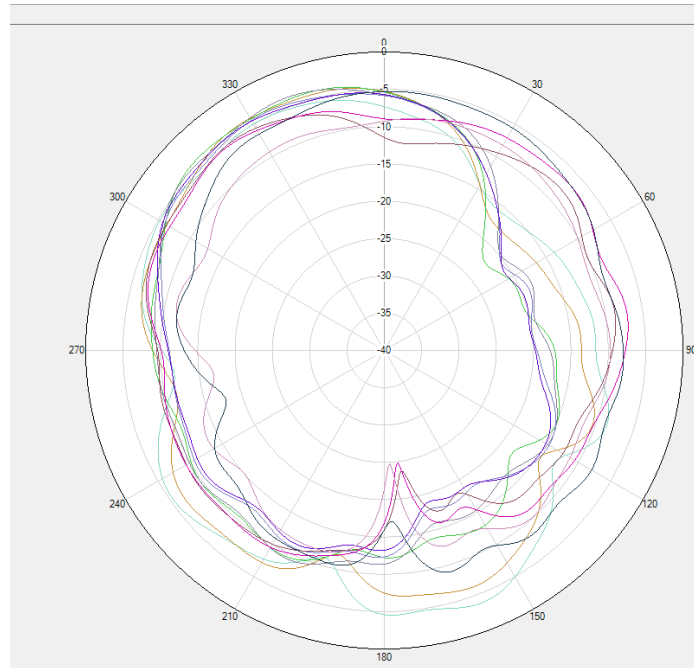
B42/NR n77/78 Theta=90deg

※ Antenna Gain

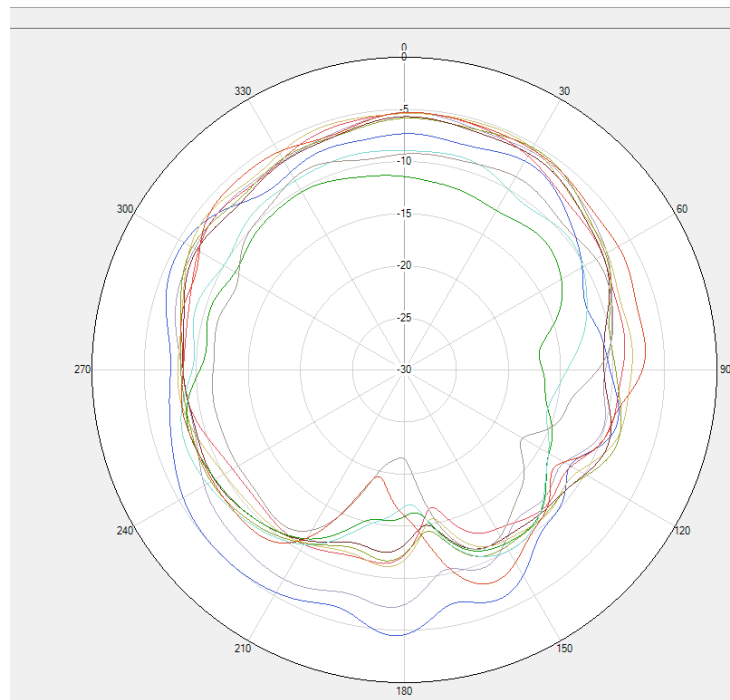
ANT7



B1/B3/B7/B38/B40/B41Phi=0deg



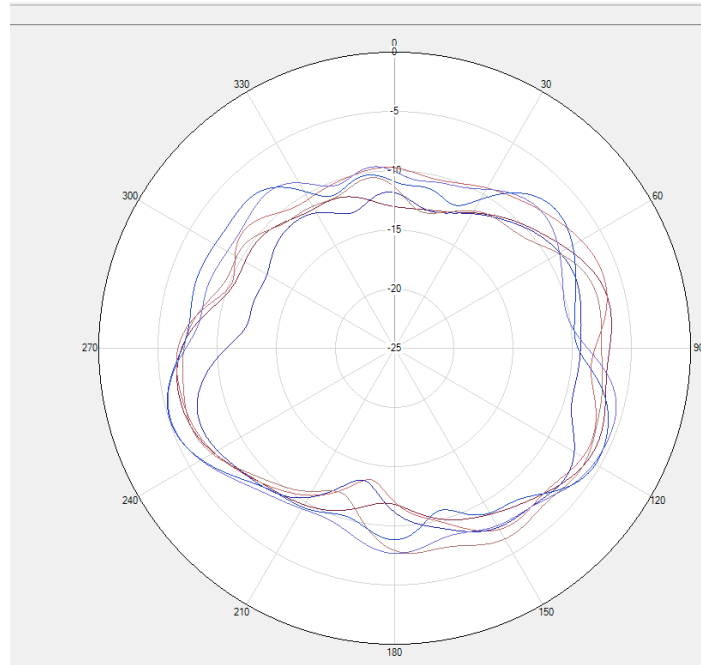
B1/B3/B7/B38/B40/B41Phi=90deg



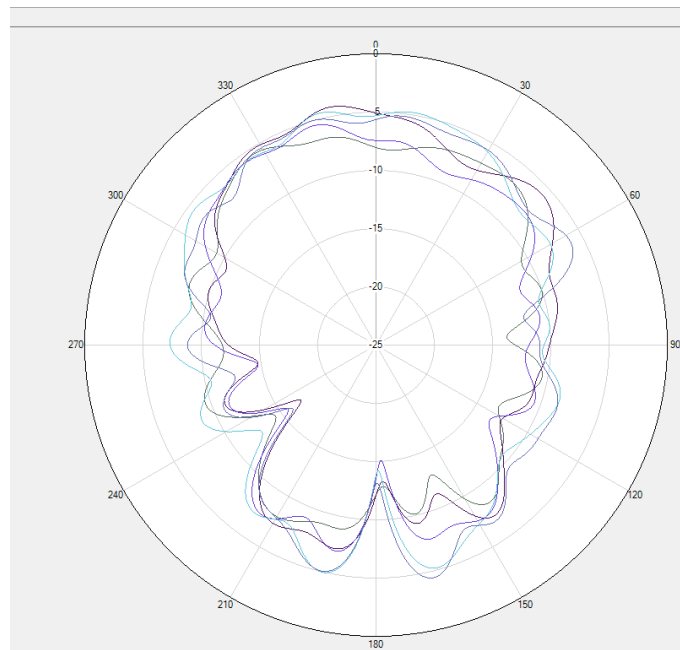
B1/B3/B7/B38/B40/B41 Theta=90deg

※ Antenna Gain

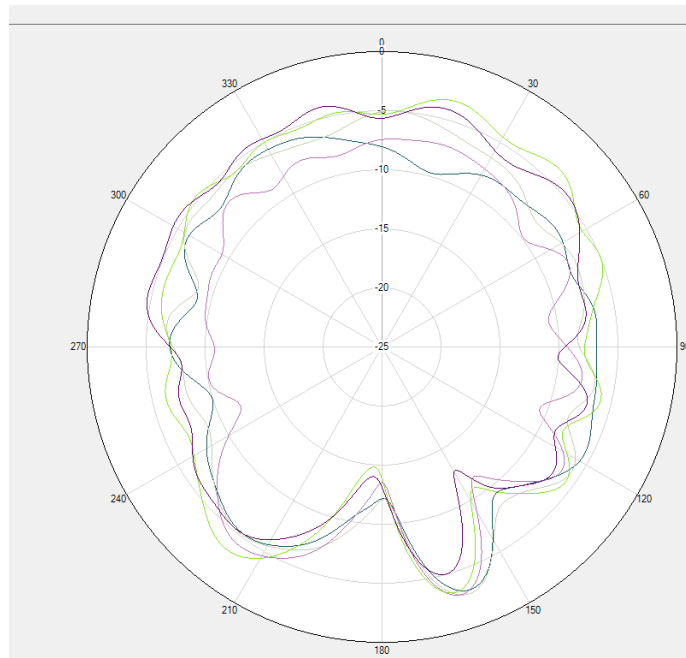
ANT8



B42/N77/N78 Phi=0deg



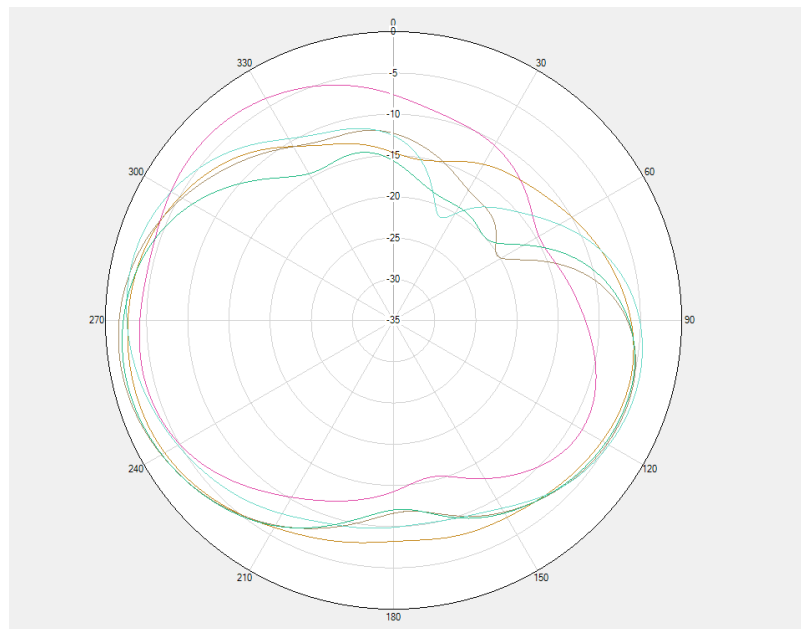
B42/N77/N78 Phi=90deg



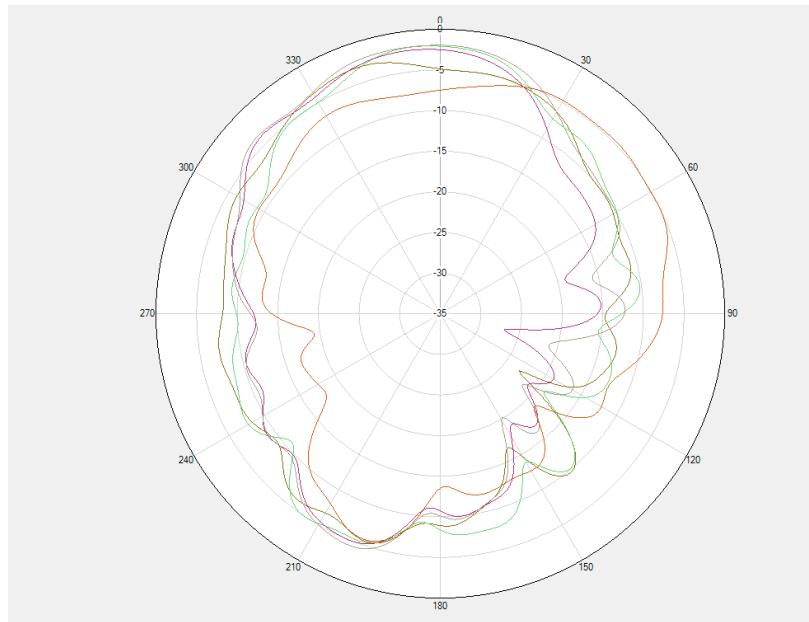
B42/N77/N78 Theta=90deg

※ Antenna Gain

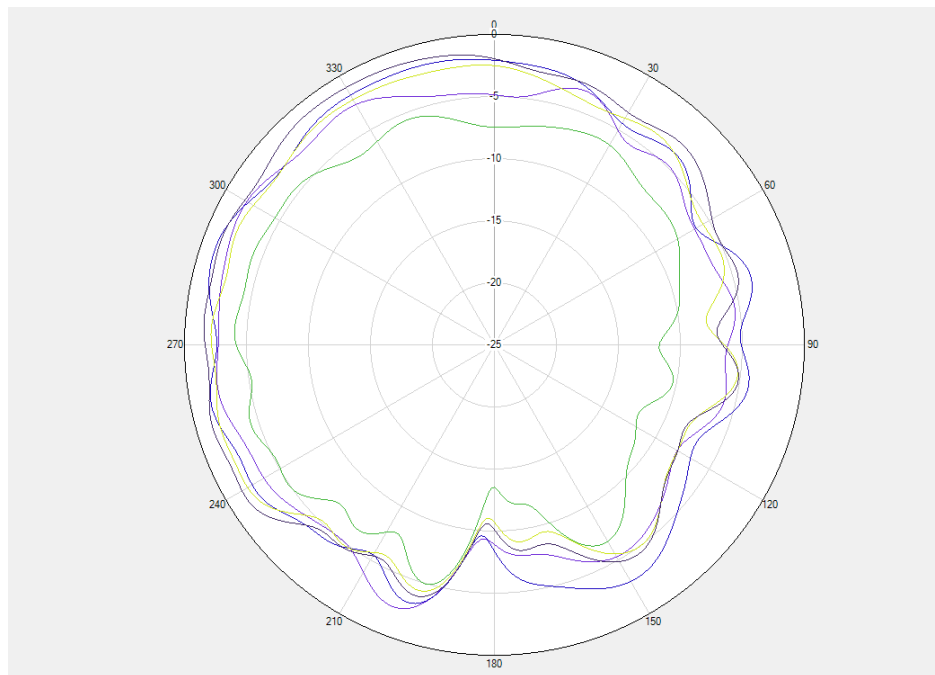
ANT9



B42/N77/N78 Phi=0deg



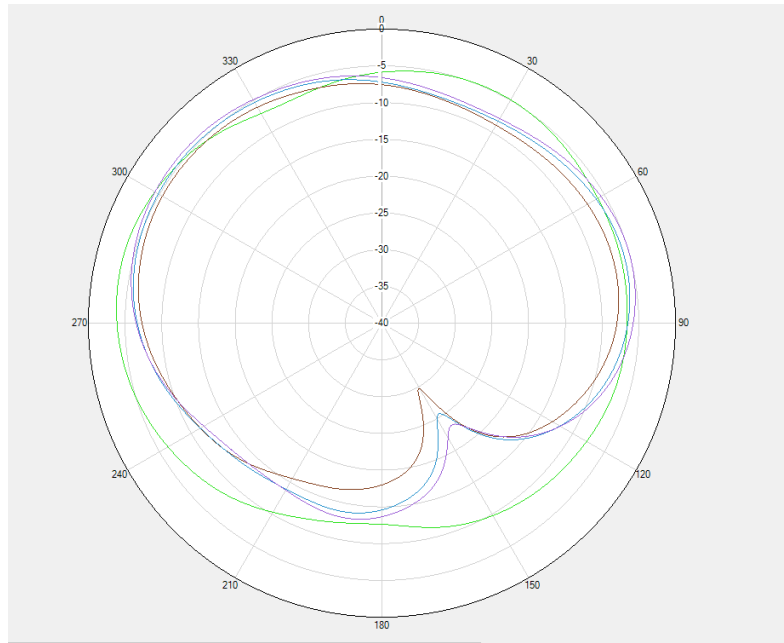
B42/N77/N78 $\Phi = 90^\circ$



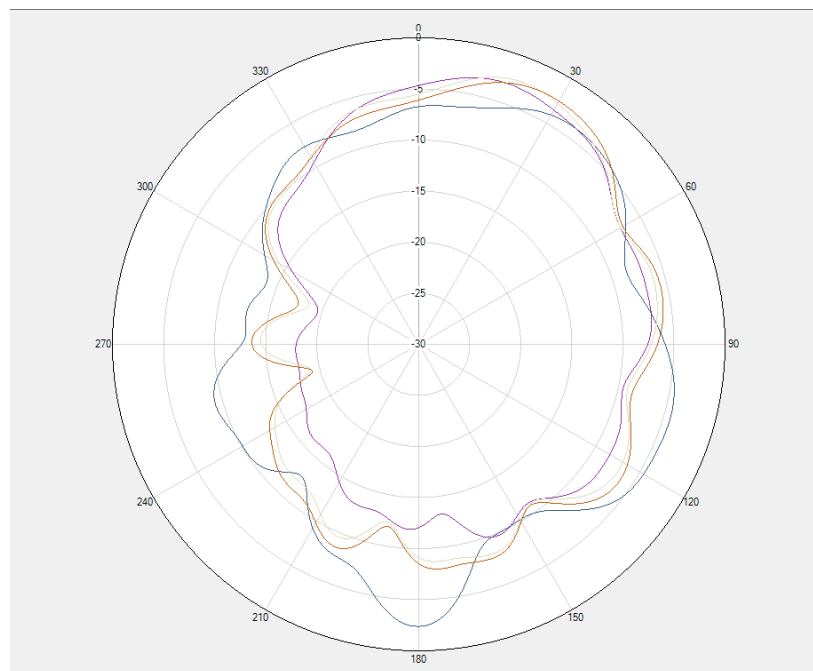
B42/N77/N78 $\Theta = 90^\circ$

※ Antenna Gain

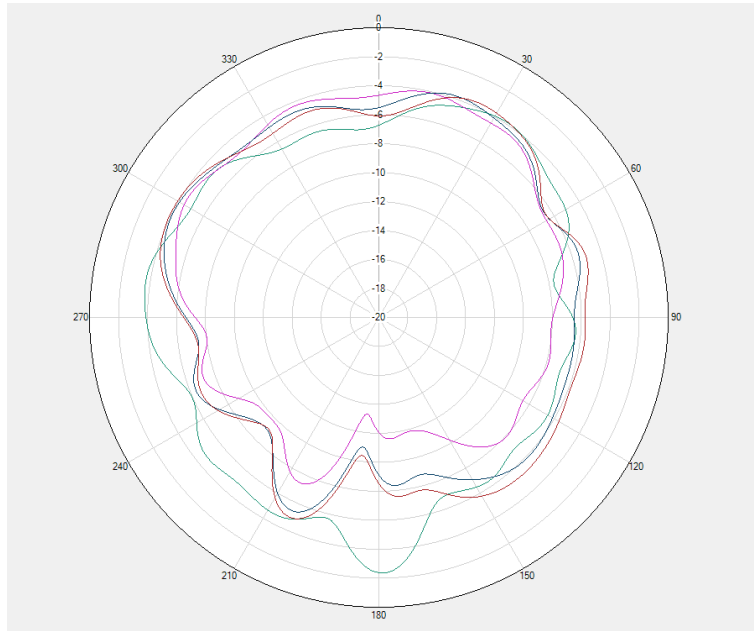
ANT12



GPS/BT/Wifi 2.4G $\Phi=0^\circ$



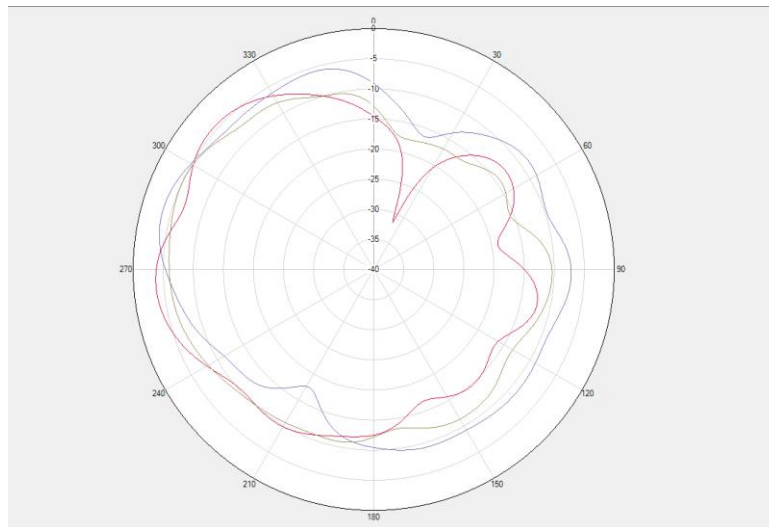
GPS/BT/Wifi 2.4G $\Phi=90^\circ$



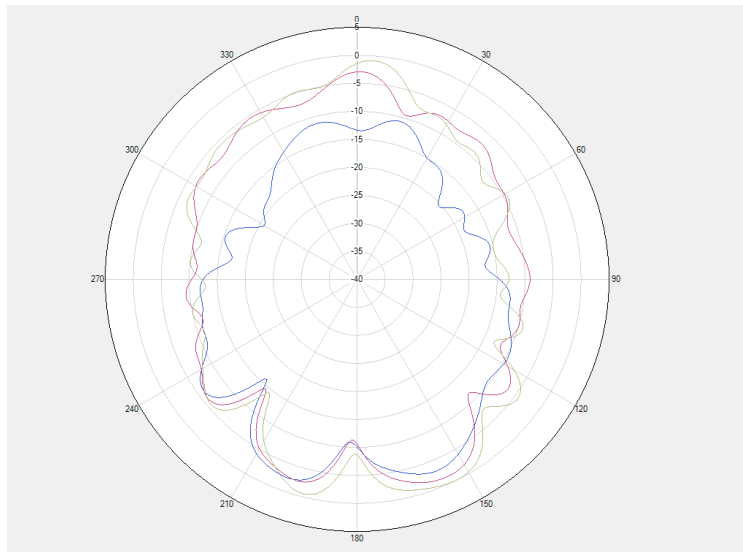
GPS/BT/Wifi 2.4G Theta=90deg

※ Antenna Gain

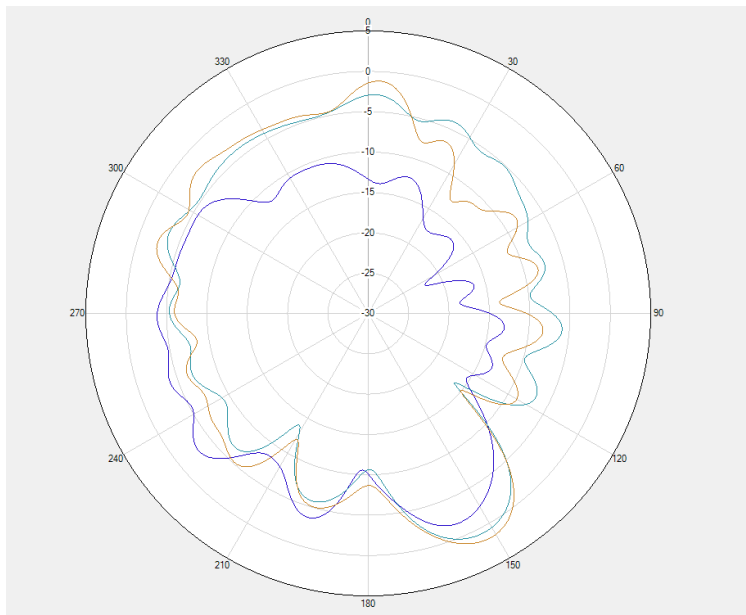
ANT13



Wifi 5G Phi=0deg



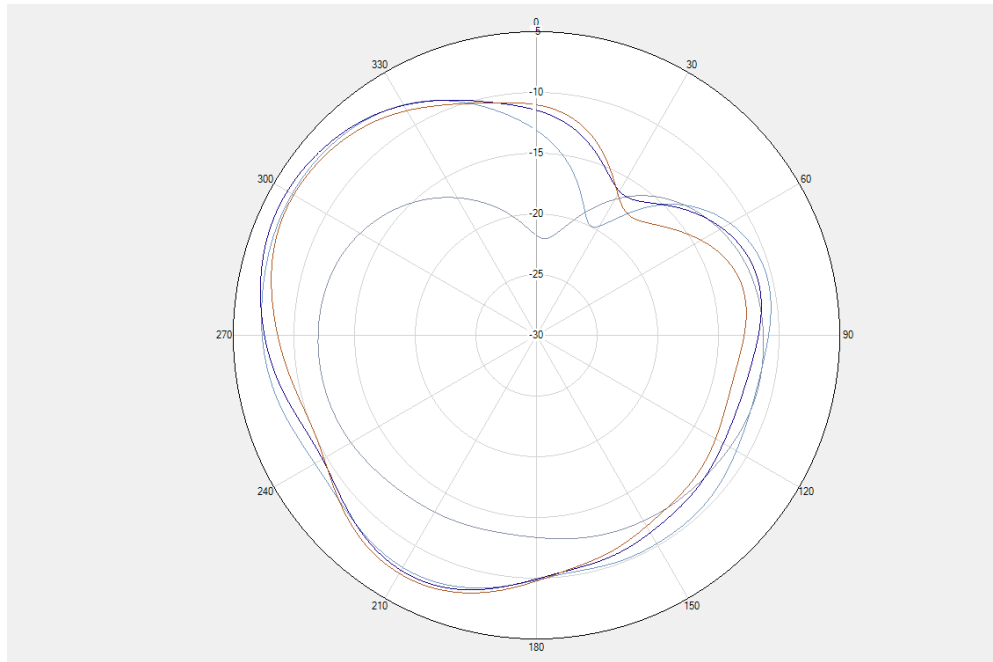
Wifi 5G $\Phi=90^\circ$



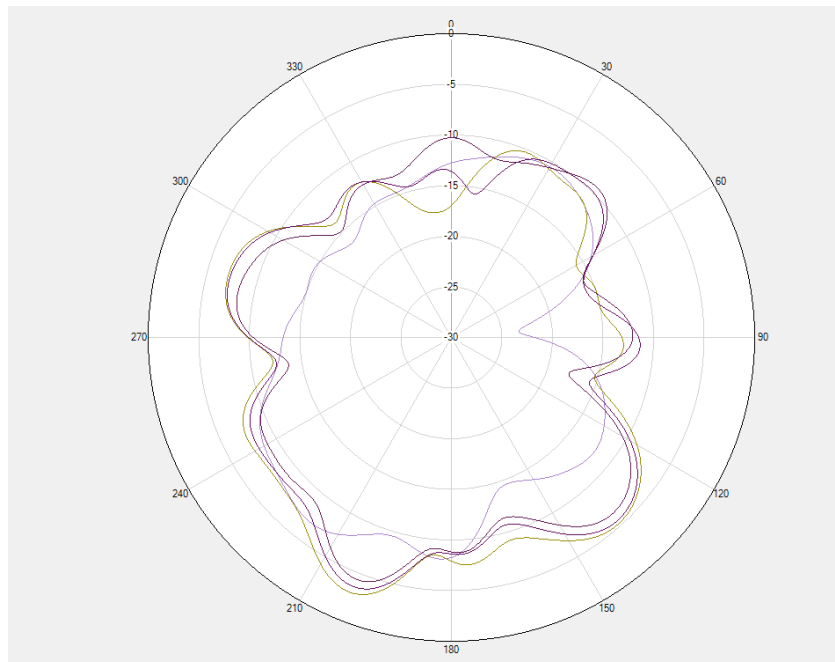
Wifi 5G $\Theta=90^\circ$

※ Antenna Gain

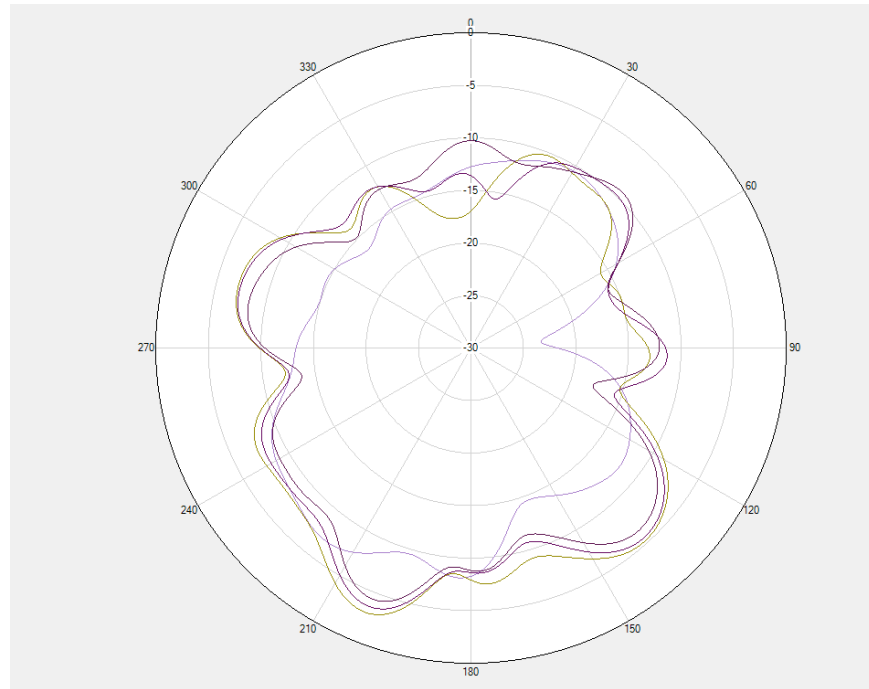
ANT14



L5/BT/Wifi 2.4G Phi=0deg



L5/BT/Wifi 2.4G Phi=90deg



L5/BT/Wifi 2.4G Thera=90deg

Antenna Location:

- ANT 0: N77/78 PRX2+WIFI5G MIMO1
 ANT 1: EN-MB DRX(DRX2)
 ANT 2: LB PRX+EN-HB DRX(DRX2)
 ANT 3: MHB PRX
 ANT 4: LB DRX
 ANT 5: MHB DRX
 ANT 6: N77/78 DRX2
 ANT 7: EN-MHB PRX (PRX2)
 ANT 8: N77/78 DRX
 ANT 9: N77/78 PRX
- ANT12: GPS L1+WIFI 2.4G MIMO1
 ANT13: WIFI 5G MIMO2 (FPC)
 ANT14: GPS L5+WIFI 2.4G MIMO2

