

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/B13/B17/B20/B28/B38/B40/B41/B66/B42

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

Name and address of the antenna manufacturer	Model number of the antenna
Etheta Communication Technology (Shenzhen) Co.,Ltd Add: Area B&D, Floor 3, Building 1, Baisha Technology Industrial Park, No.3011, Shahe West Road, Nanshan District, Shenzhen(518055), Guangdong Province, China	The honeycomb antenna of the metal frame project has no silk screen NFC Silk Screen Printing: X6887-RD-VXX-XX(XX:Version-Date)

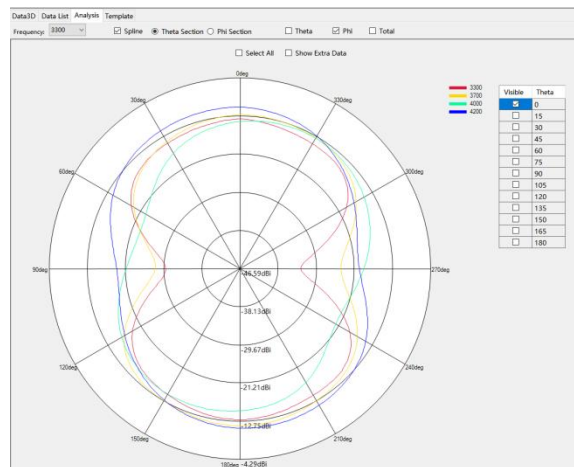
TYPE	
Transmitter Frequency	GSM 850/WCDMA B5/LTE B5 NR n5: 824 – 849 MHz
	GSM 900/WCDMA B8/LTE B8 NR n8: 880 – 915 MHz
	DCS /WCDMA B4/LTE B3/B4/B66 NR n3/n66: 1710 – 1785 MHz
	PCS/WCDMA B2/LTE B2:1850-1910MHz
	WCDMA B1/LTE B1 NR n1: 1920-1980MHz
	LTE B7 NR n7:2496-2565MHz
	LTE B40 NR n40:2300-2400MHz
	LTE B38/B41 NR n38/n41:2565-2645MHz
	LTE B20 NR n20:832-862MHz
	LTE B12/B13/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
	GSM 900/WCDMA B8/LTE B8 NR n8: 925 – 960 MHz
	DCS/LTE B3 NR n3: 1805 – 1880 MHz
	WCDMA 4/LTE B4/66 NR n66 : 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/B13/B17/B28 NR n12/n28:758-803MHz
		LTE B42 NR n77/n78:3300-4200MHz
RF-Output Power (E.I.R.P)		GSM850/900: 32+/-2dBm
		DCS/PCS: 30+/-2dBm
		LTE B1/B2/B3/B4/B5 /B7/B8/B12/B13/B17/B20/B28/B38/B40/B41/B66/B42: 23+/-2dBm
		WCDMA B1/B2/B4/B5/ B8: 23+/-2dBm
		NR N77/N78: 26+/-2dBm
		NR N1/N3/N5/N7/N8/N12/N20/N28/N38/N40/N41/N66: 23+/-2dBm
Antenna Gain	ANT0	LTEB42 NR n77/n78: -3.9
	ANT1	NR N12/N17/N28/LTE B12/B17/B28:-5.77
		GSM850/LTE B5/B20/NR N5/N20:-7.69
		GSM900/WCDMA B8/LTE B8/NR N8:-3.51
	ANT2	LTE B7/ B41/B38 NR n7/n41/n38 :-1.30
		PCS/WCDMA B1/B2 LTE B1/B2/ NR n1:-1.51
		DCS/WCDMA B4 /LTE B3/B4/B66 /NR n3 :-2.87
		LTE B40 NR n40: -1.86
	ANT3	GSM 850/WCDMA B5/LTE B5/20 /NR n5/20: -0.07
		GSM 900/WCDMA B8/LTE B8 /NR n8: -0.41
		LTE B12/B17/B28/B13 /NR n12/n28:-6.07
		LTEB42 /NR n77/n78:-0.01

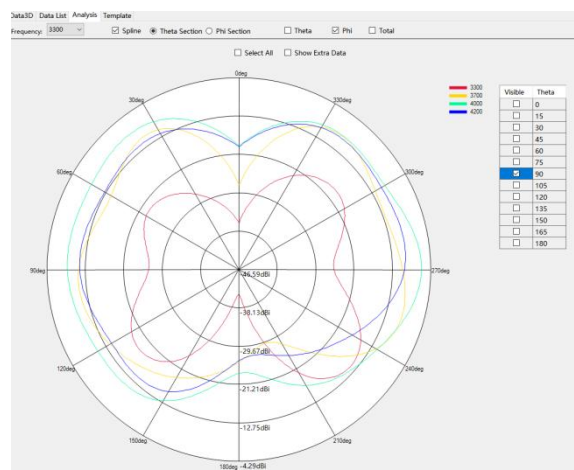
	ANT4	LTE B7/ B41/B38 /NR n7/n41/n38 :-0.73
		WCDMA B1/B4 /LTE B1/B4/B66 /NR n1/n66 :-4.97
		DCS/PCS/WCDMA B2 /LTE B2/B3 /NR B3 :-3.4
		LTE B40/ NR n40:-3.68
	ANT5	N77/78 /LTE B42 :-1.17
	ANT6	LTEB42 /NR n77/n78:-3.95
		WIFI 5G :-0.77
	ANT12	GPS(L1):-3.32
		BT/WIFI2.4:-3.08
	ANT13	WIFI2.4:-0.52
Type of Modulation		

※ Antenna Gain

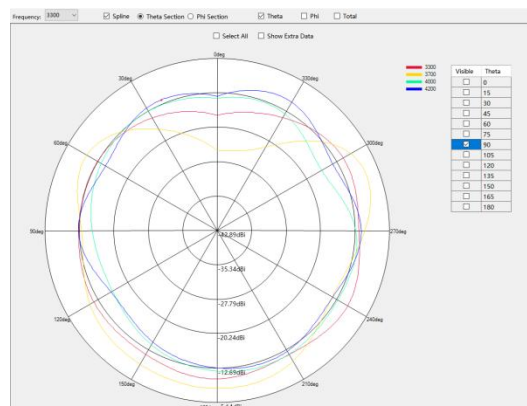
ANT0



LTEB42 NRN77/78 $\Phi=0^\circ$



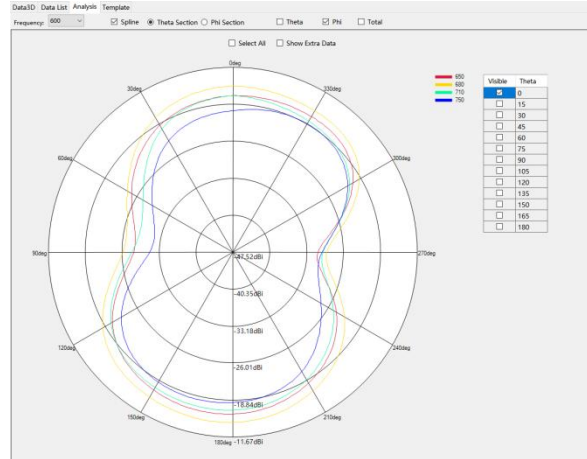
LTEB42 NRN77/78 $\Phi=90^\circ$



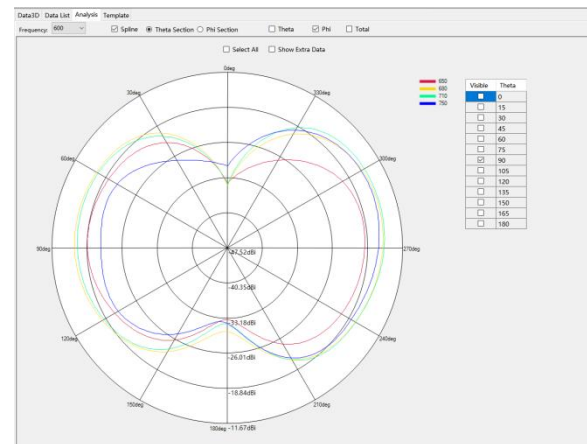
LTEB42 NRN77/78 $\Theta=90^\circ$

※ Antenna Gain

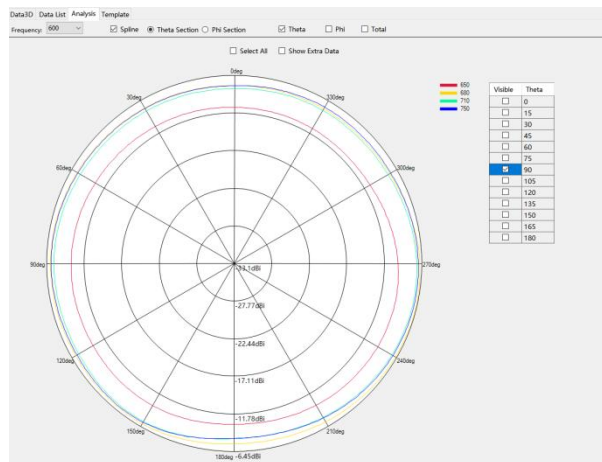
ANT1



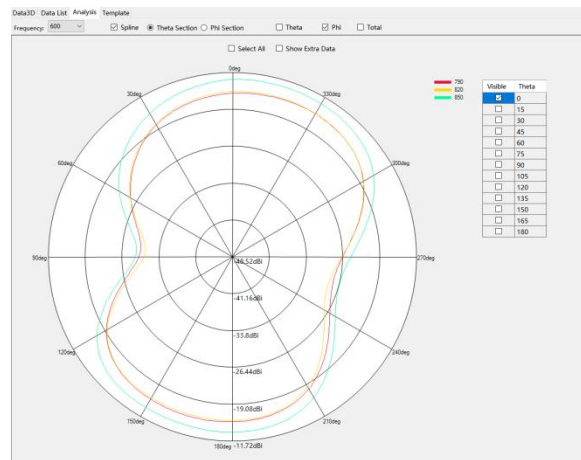
NR N12/N17/N28 /LTE B12/B17/B28 Phi=0deg



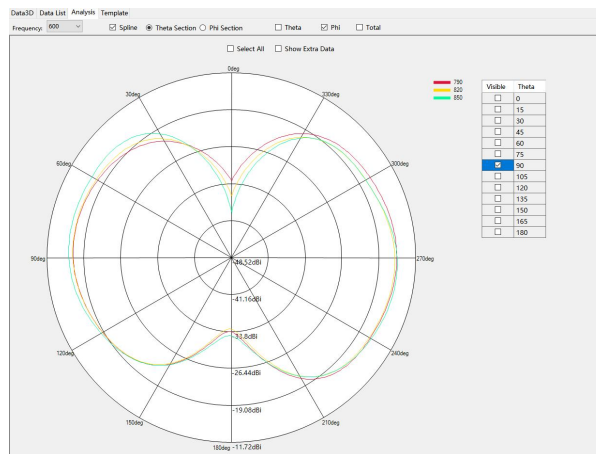
NR N12/N17/N28 /LTE B12/B17/B28 Phi=90deg



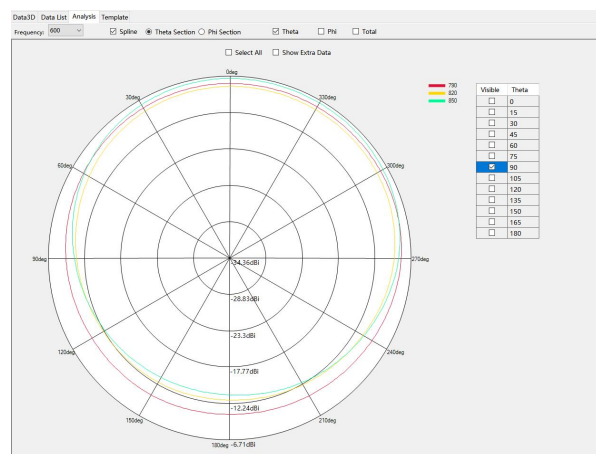
NR N12/N17/N28 /LTE B12/B17/B28 Theta=90deg



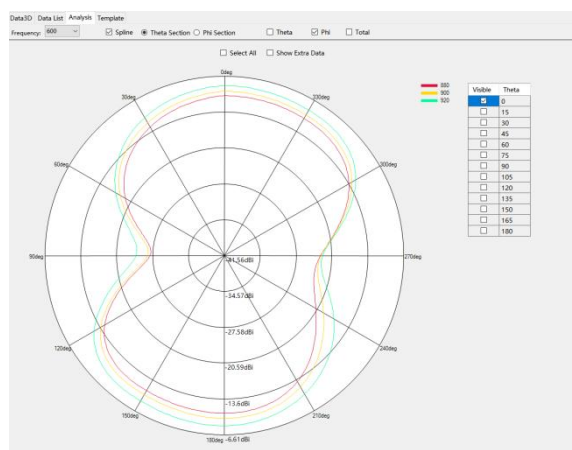
GSM850/LTE B5/B20/NR N5/N20 Phi=0deg



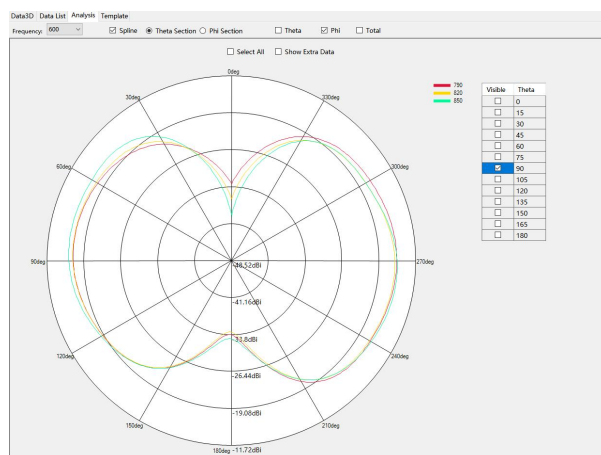
GSM850/LTE B5/B20/NR N5/N20 Phi=90deg



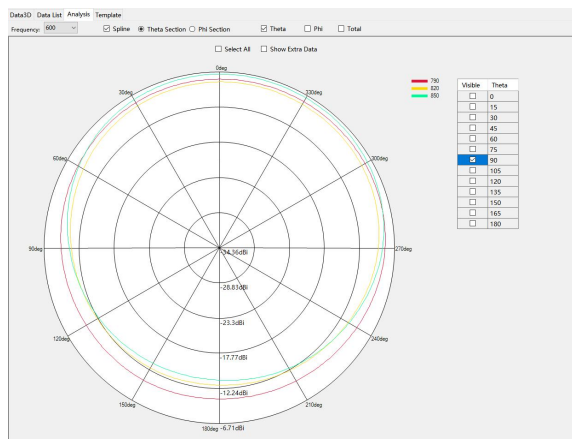
GSM850/LTE B5/B20/NR N5/N20 Theta=90deg



GSM900/WCDMA B8/LTE B8/NR N8 Phi=0deg



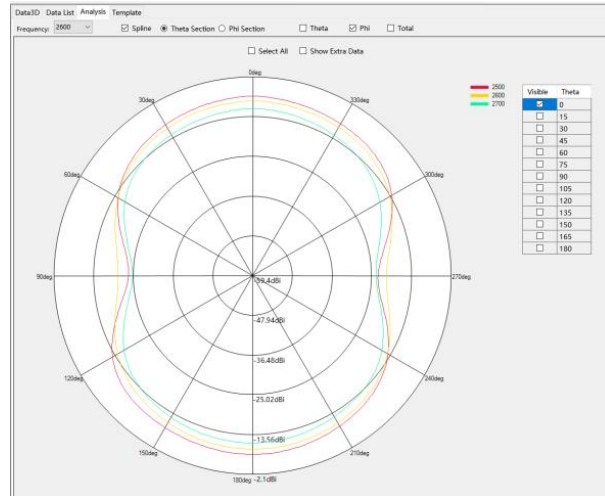
GSM900/WCDMA B8/LTE B8/NR N8 Phi=90deg



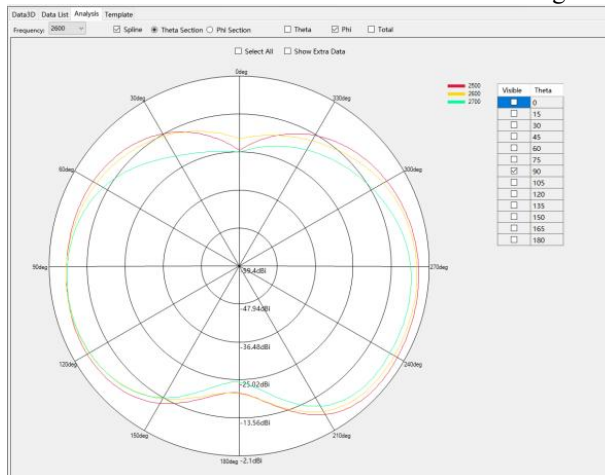
GSM900/WCDMA B8/LTE B8/NR N8 Theta=90deg

※ Antenna Gain

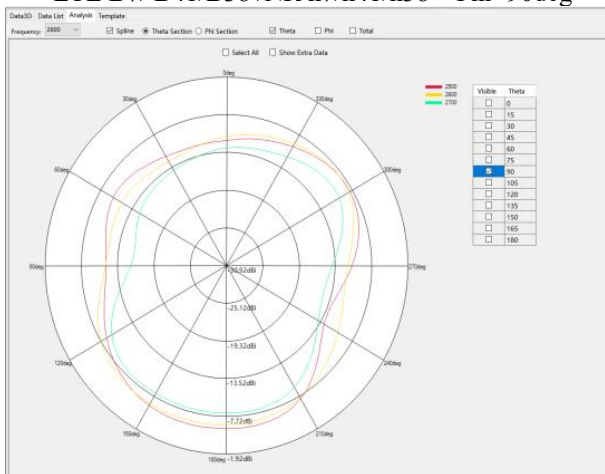
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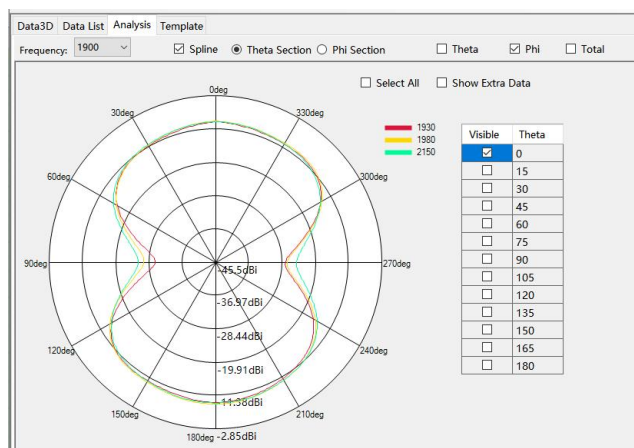
LTE B7/ B41/B38 /NR n7/n41/n38 Phi=0deg



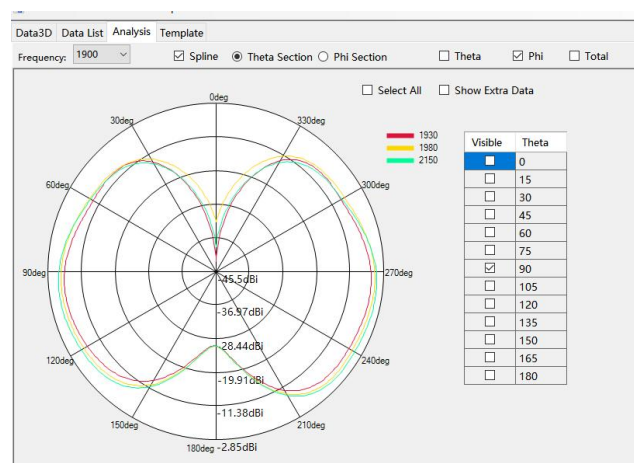
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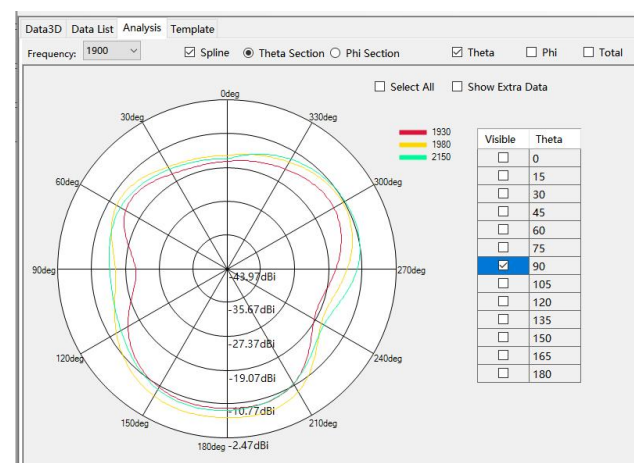
LTE B7/ B41/B38 /NR n7/n41/n38 Theta=90deg



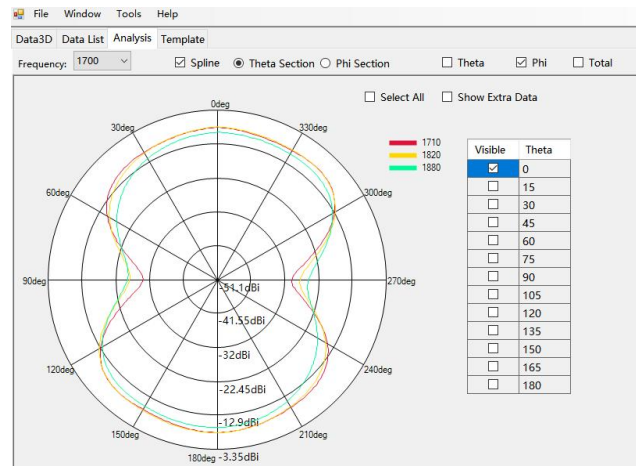
PCS/WCDMA B1/B2/ LTE B1/B2 NR n1/n2 Phi=0deg



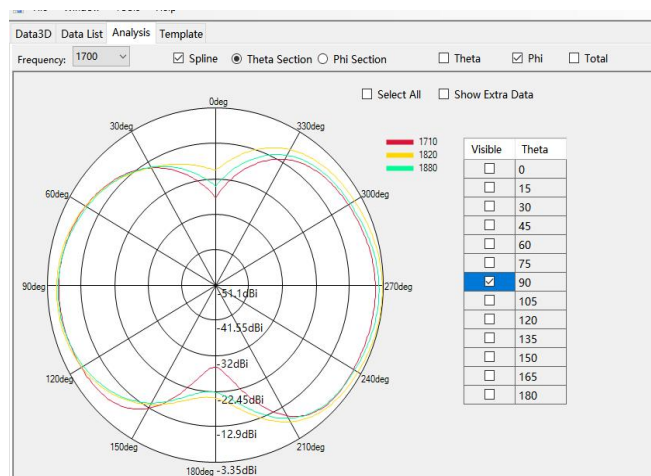
PCS/WCDMA B1/B2 /LTE B1/B2 NR n1/n2 Phi=90deg



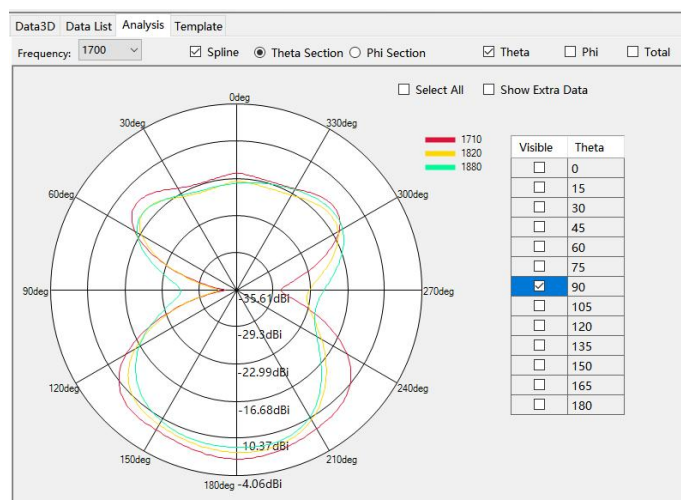
PCS/WCDMA B1/B2 /LTE B1/B2 NR n1/n2 Theta=90deg



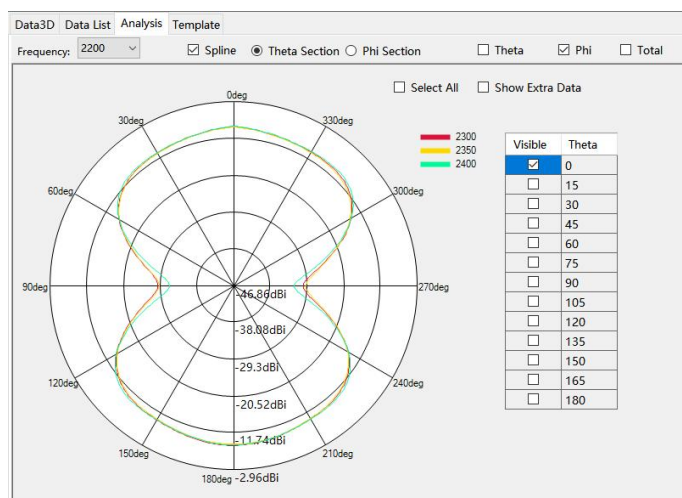
DCS/WCDMA B4/ LTE B3/B4/B66 /NR n3/66 Phi=0deg



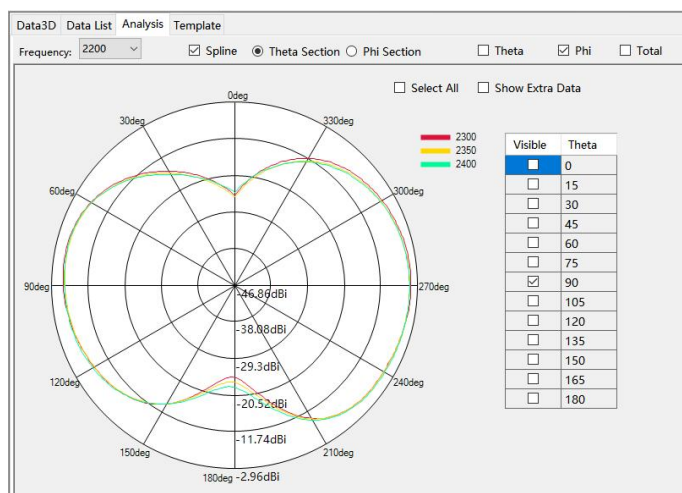
DCS/WCDMA B4/ LTE B3/B4/B66 /NR n3/66 Phi=90deg



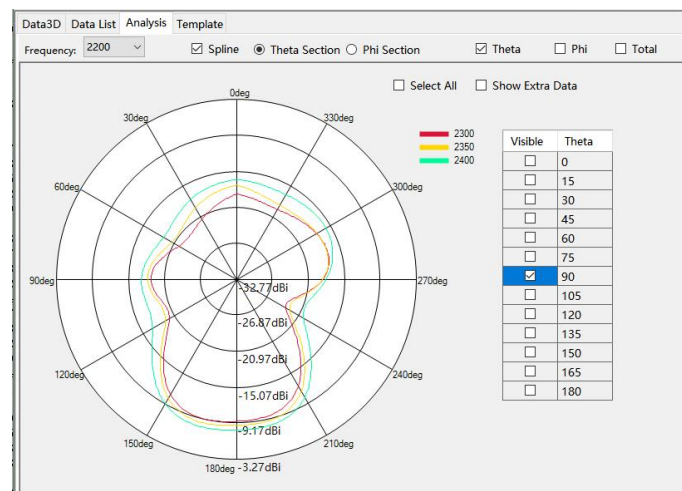
DCS/WCDMA B4/ LTE B3/B4/B66 /NR n3/66 Theta=90deg



LTE B40/ NR n40—Phi=0deg



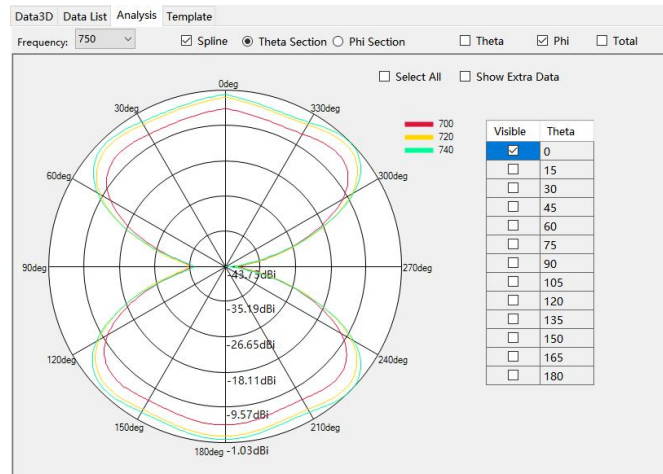
LTE B40/ NR n40—Phi=90deg



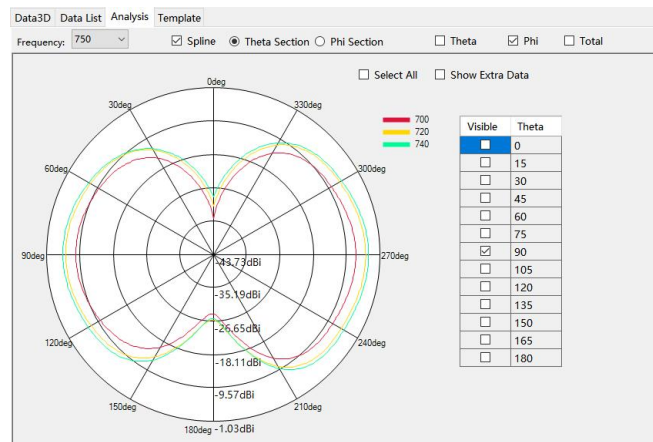
LTE B40/ NR n40—Theta=90deg

※ Antenna Gain

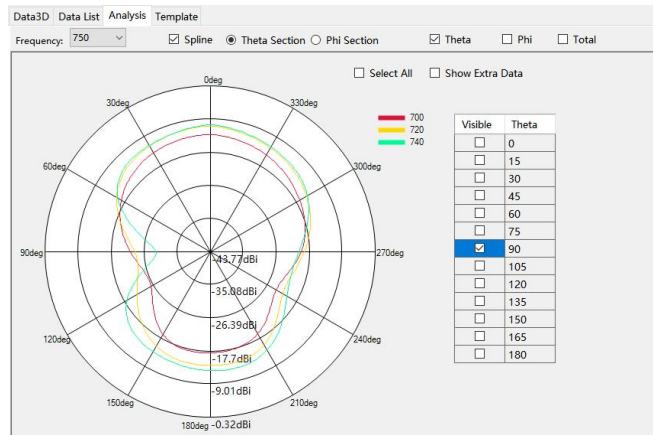
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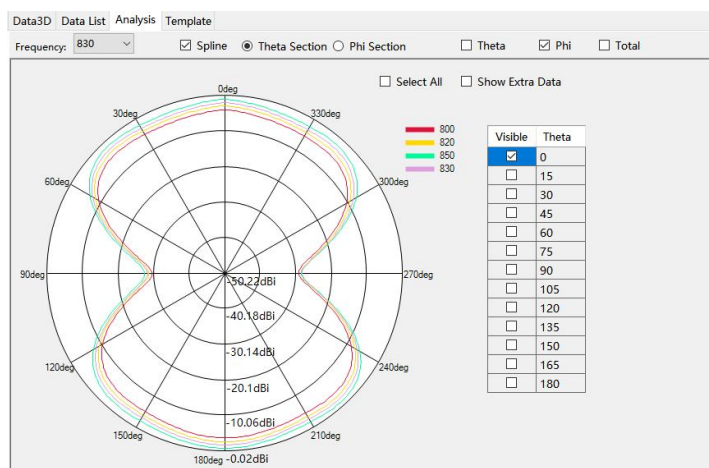
NR N28/12 LTE B28/12/17/13 Phi=0deg



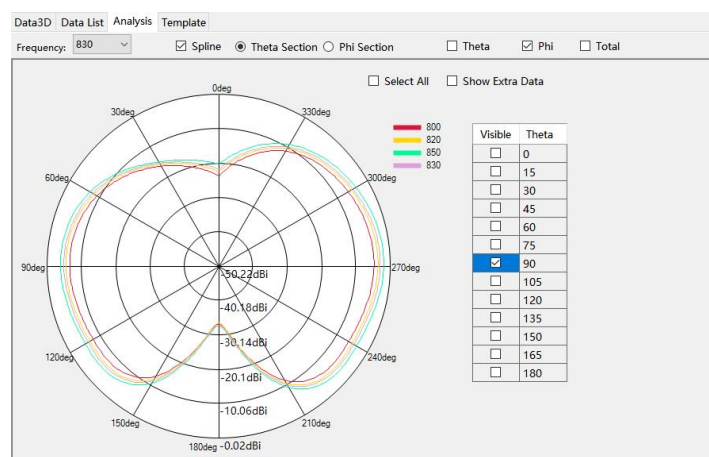
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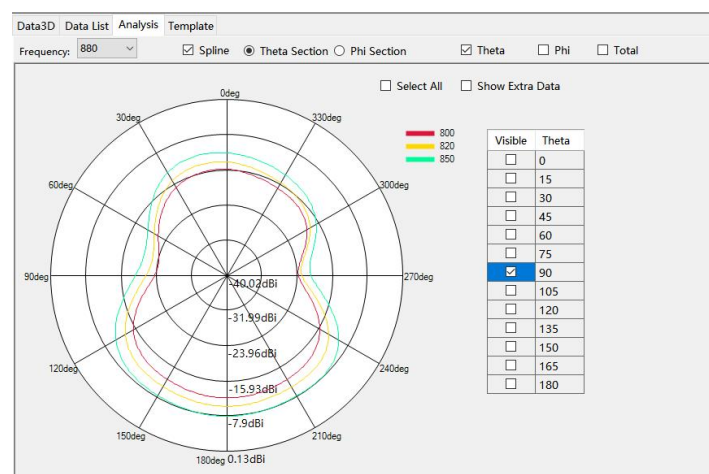
NR N28/12 LTE B28/12/17/13 Theta=90deg



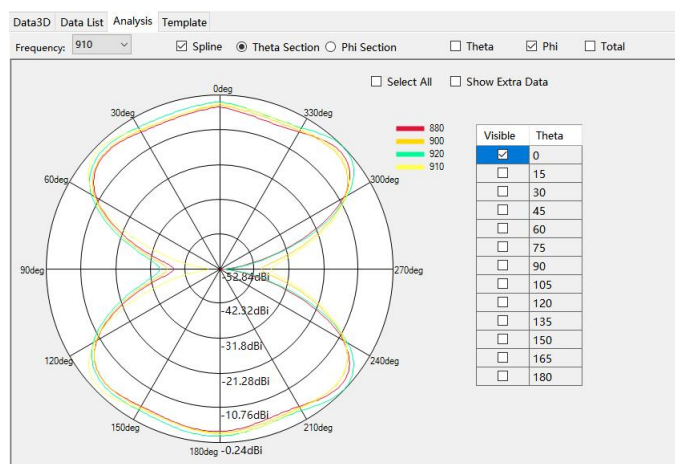
NR N5/20 /LTE B5/20 /WCDMA B5/GSM 850 Phi=0deg



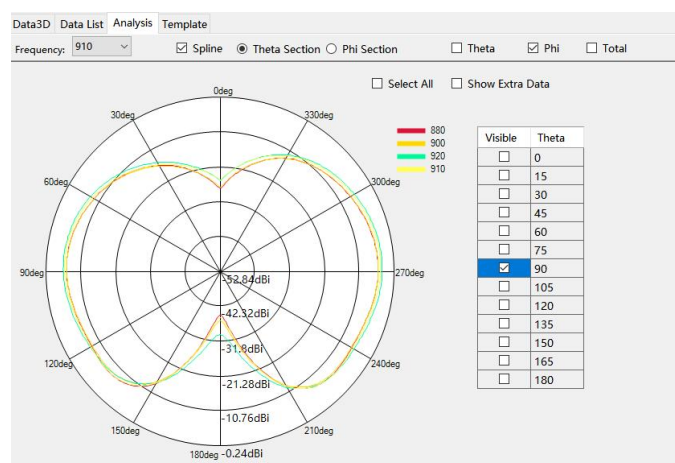
NR N5/20 /LTE B5/20 /WCDMA B5/GSM 850 Phi=90deg



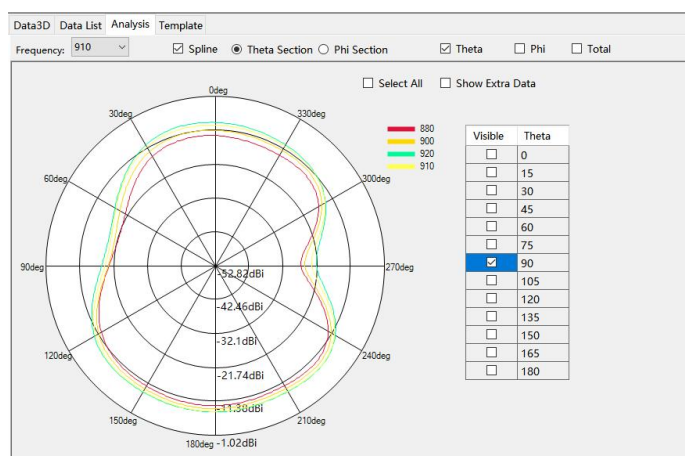
NR N5/20 /LTE B5/20 /WCDMA B5/GSM 850 Theta=90deg



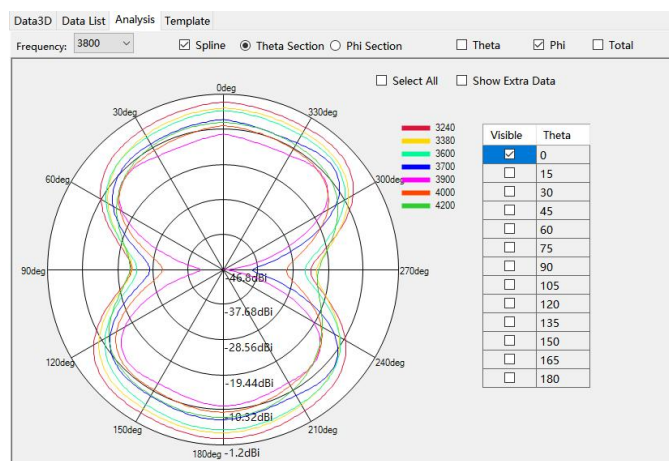
NR 8 /LTE B8/WCDMA B8/ GSM 900 Phi=0deg



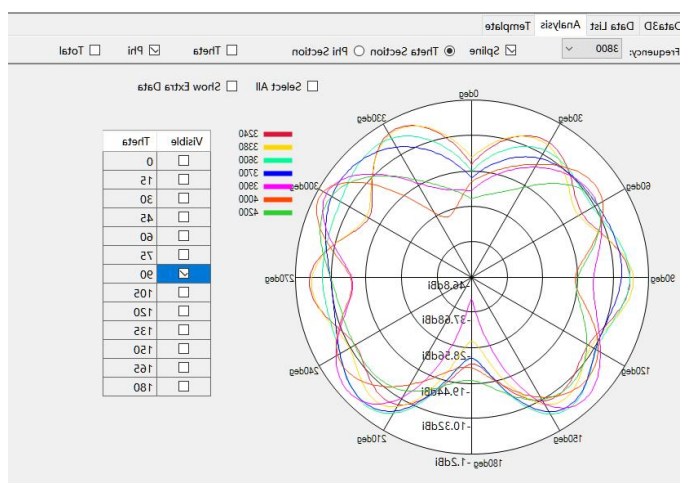
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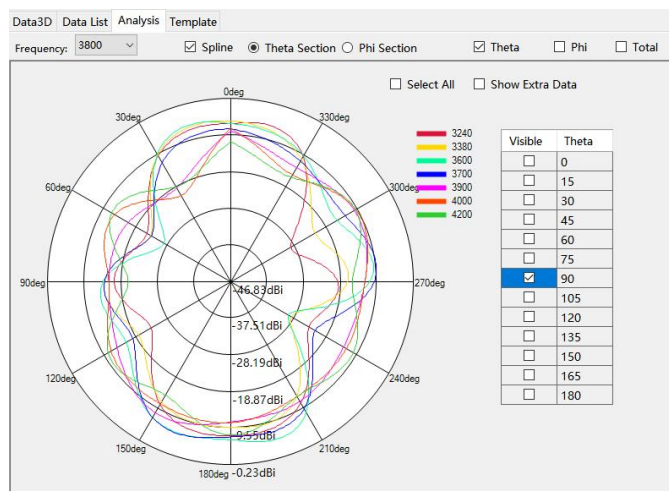
NR 8 /LTE B8/WCDMA B8/ GSM 900 Theta=90deg



NR 77/78 LTE B42 Phi=0deg



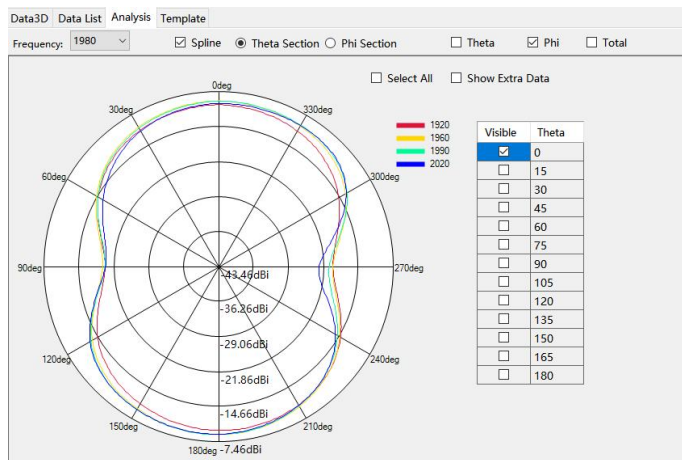
NR 77/78 LTE B42 Phi=90deg



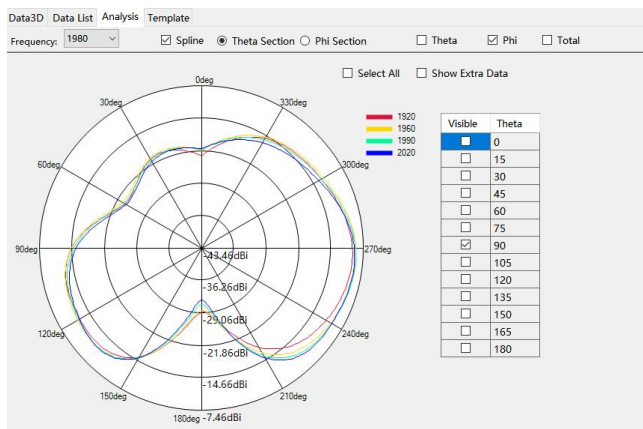
NR 77/78 LTE B42 Theta=90deg

※ Antenna Gain

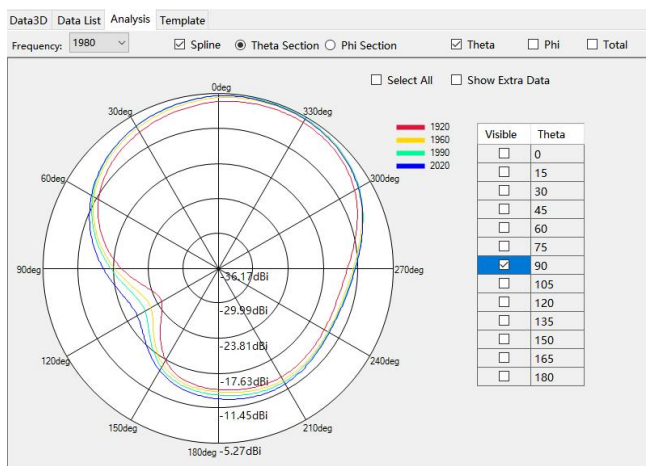
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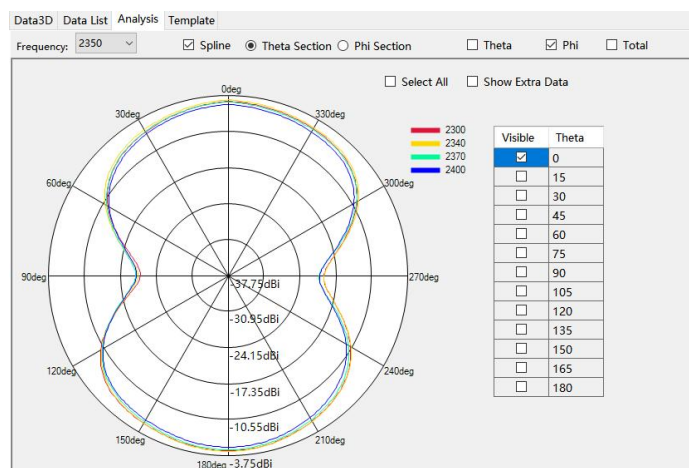
WCDMA B1/B4 LTE B1/B4/B66 NR n1/n66 Phi=0deg



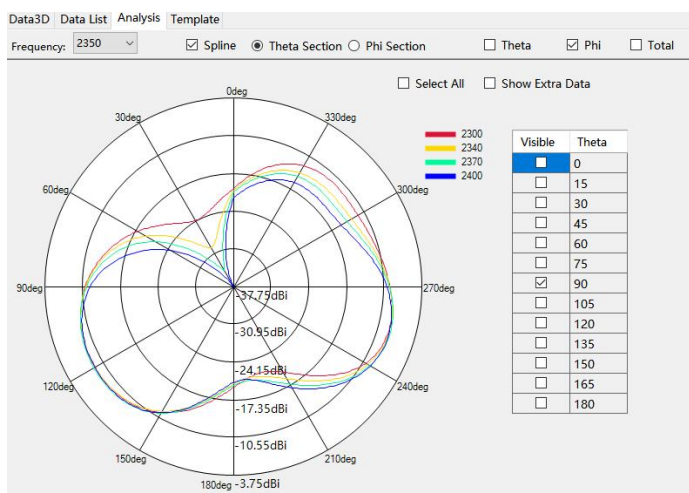
WCDMA B1/B4 LTE B1/B4/B66 NR n1/n66 Phi=90deg



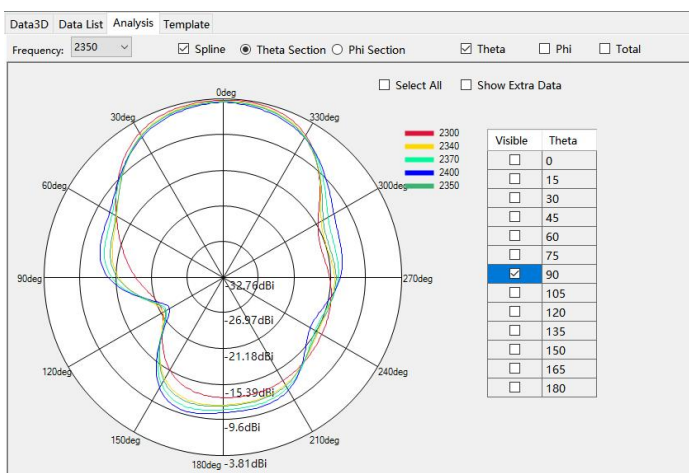
WCDMA B1/B4 LTE B1/B4/B66 NR n1/n66 Theta=90deg



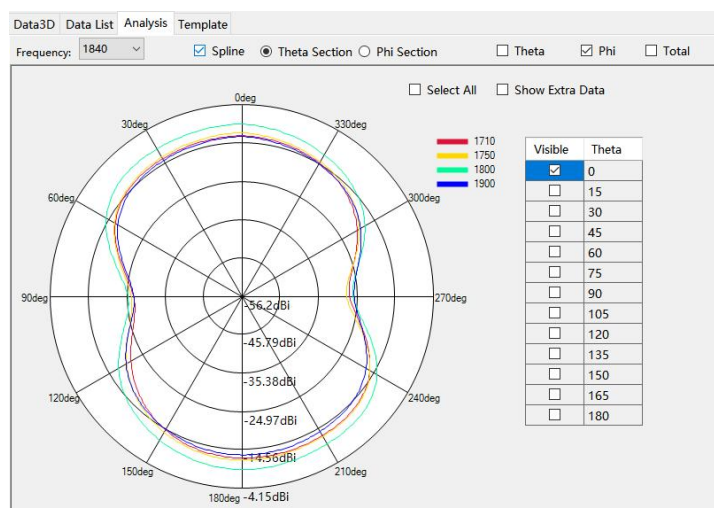
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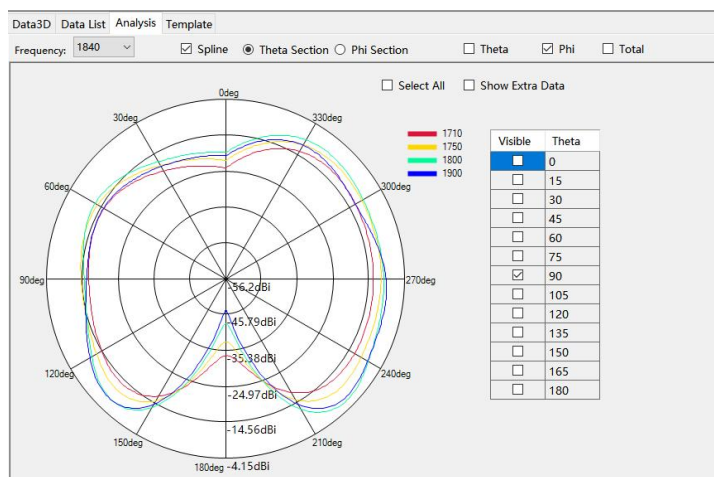
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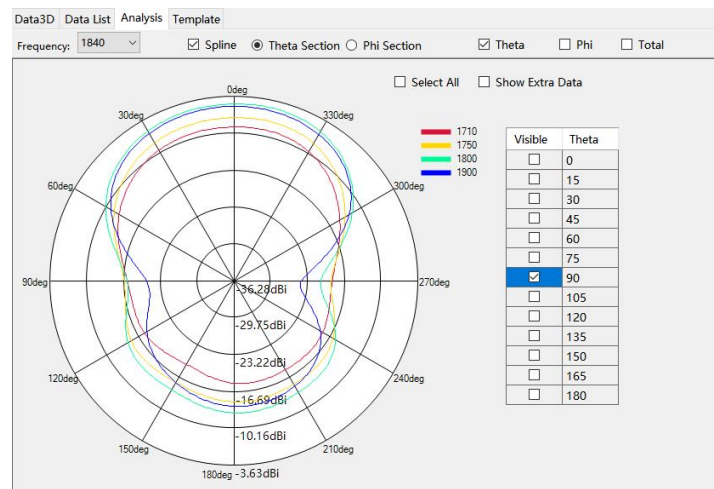
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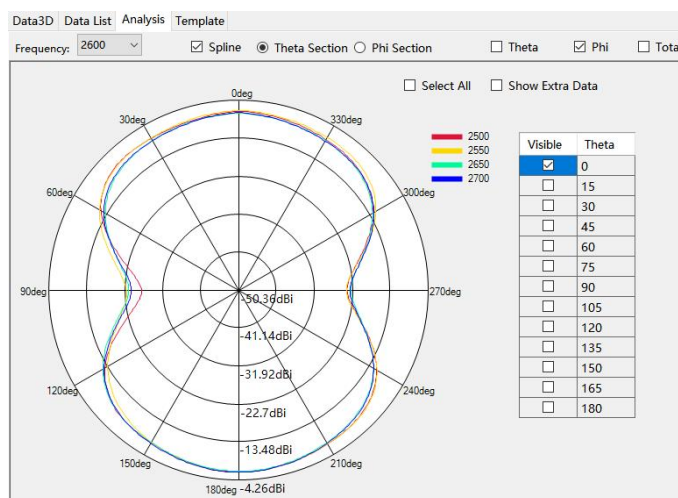
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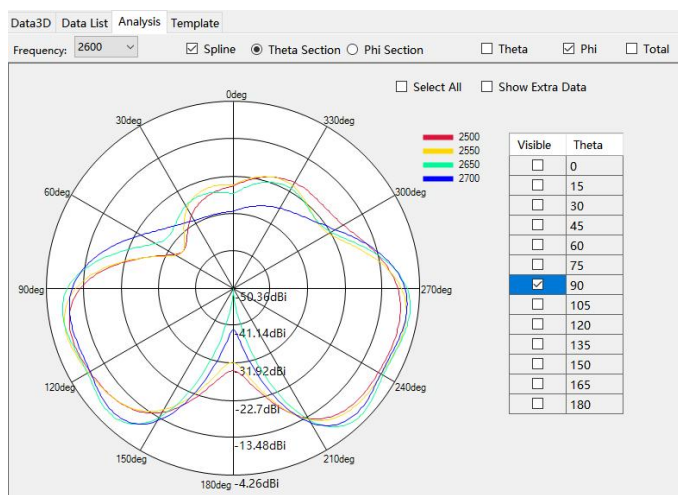
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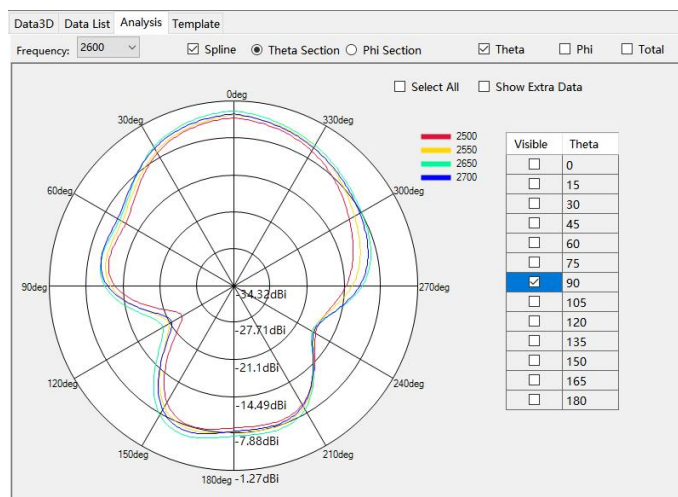
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LTE B7/ B41/B38 NR n7/n41/n38 Phi=0deg



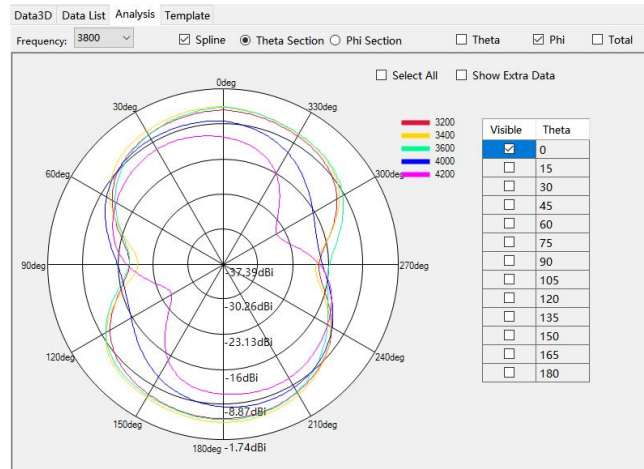
LTE B7/ B41/B38 NR n7/n41/n38 Phi=90deg



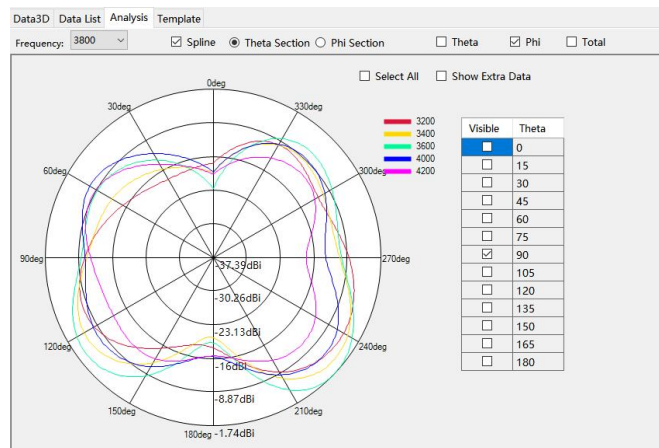
LTE B7/ B41/B38 NR n7/n41/n38 Theta=90deg

※ Antenna Gain

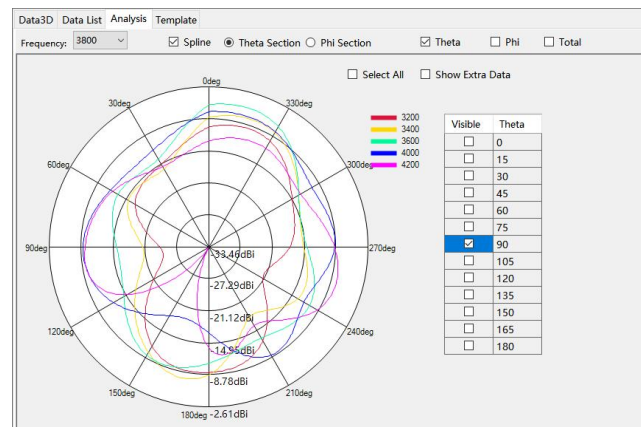
ANT5



NR n77/78 /LTE B42 Phi=0deg



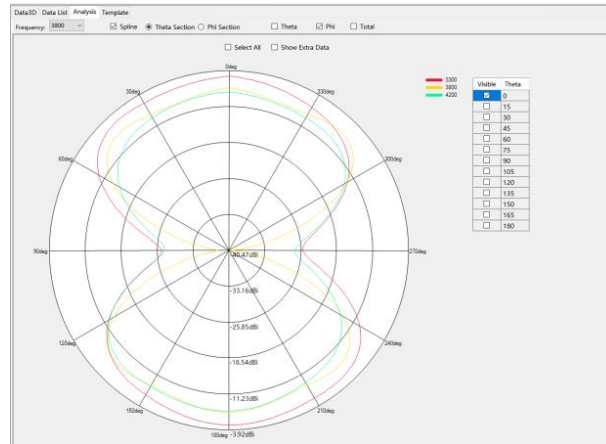
NR n77/78 /LTE B42 Phi=90deg



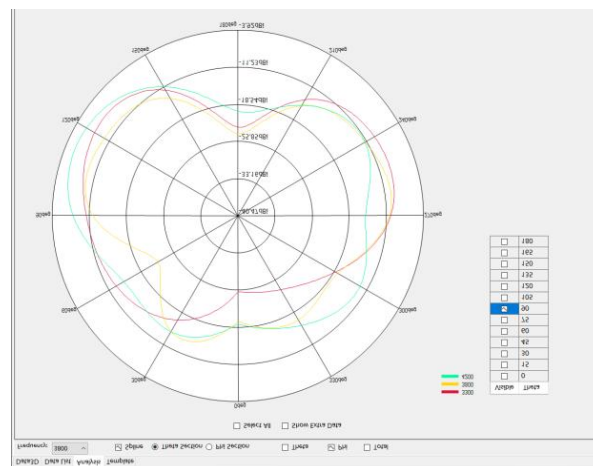
NR n77/78 /LTE B42 Theta=90deg

※ Antenna Gain

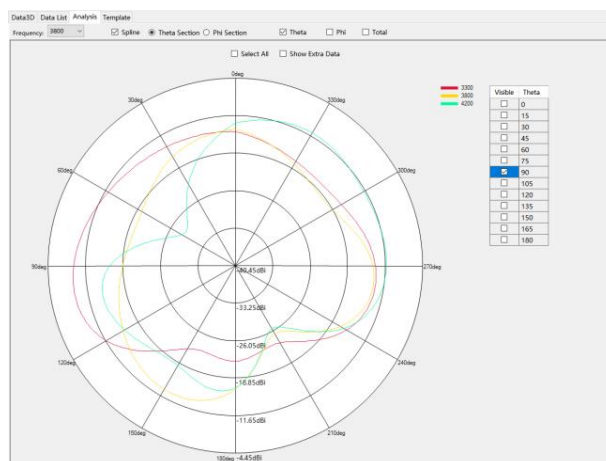
ANT6



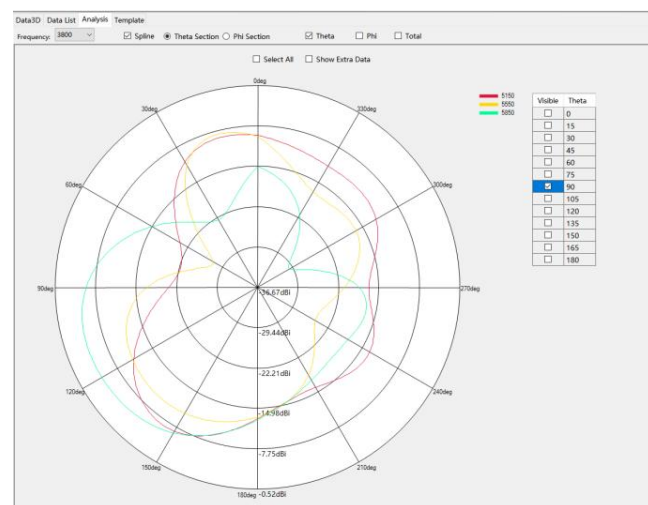
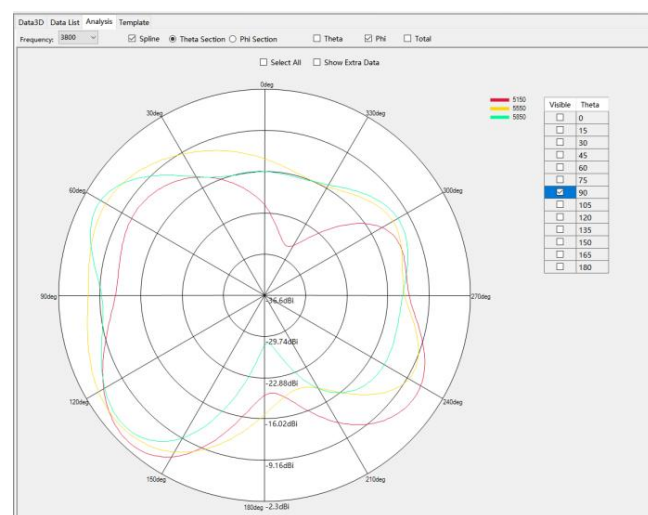
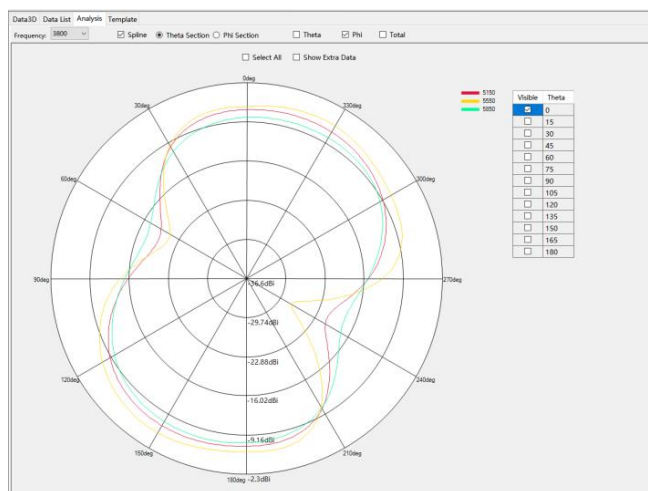
LTEB42 NRN77/78 Phi=0deg



LTEB42 NRN77/78 Phi=90deg

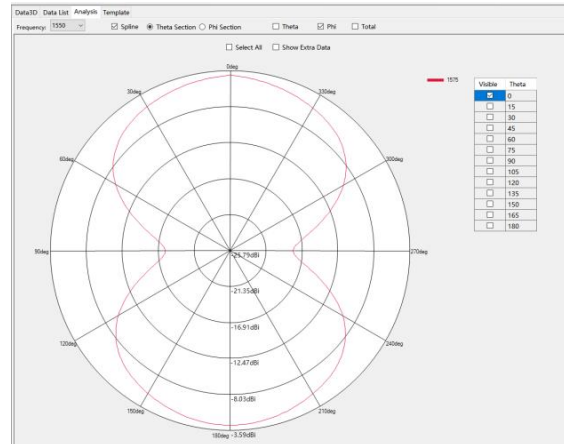


LTEB42 NRN77/78 Theta=90deg

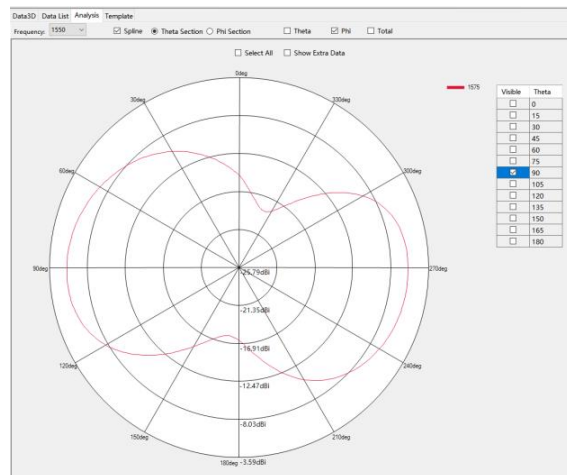


※ Antenna Gain

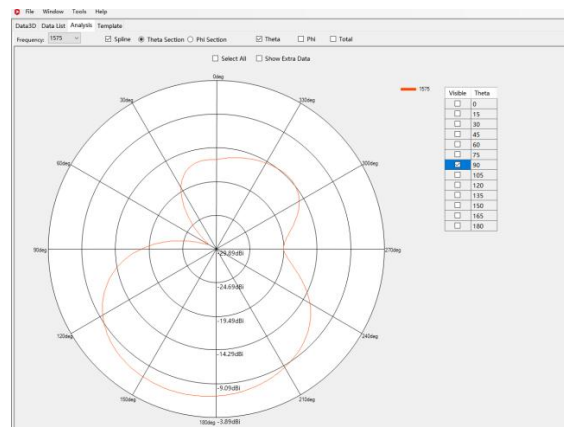
ANT12



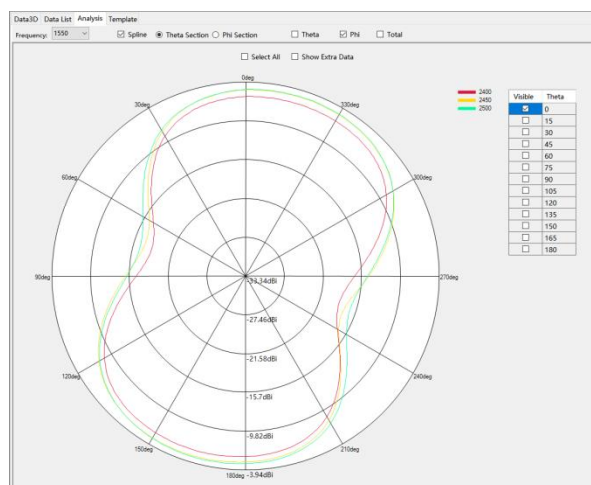
GPS(L1) Phi=0deg



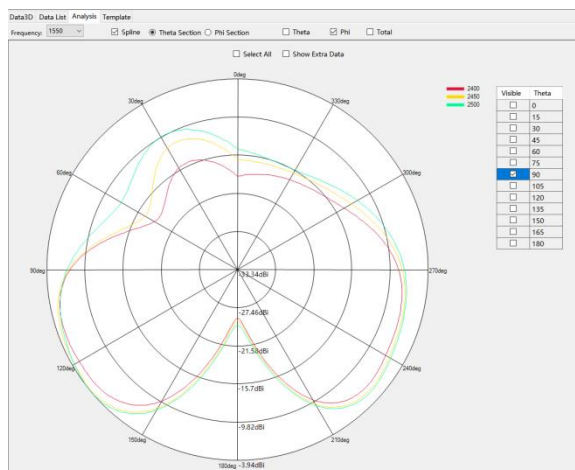
GPS(L1) Phi=90deg



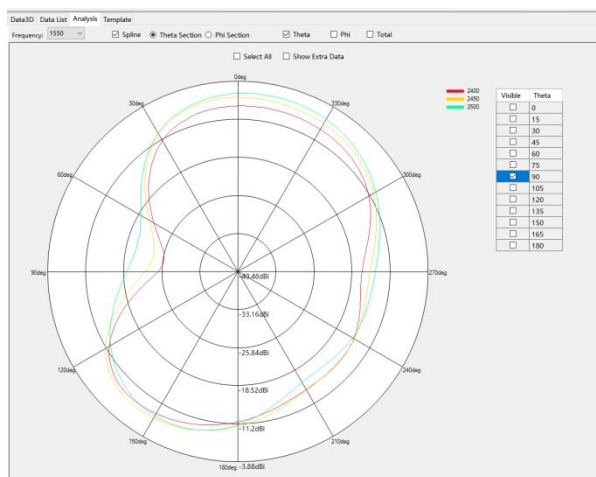
GPS(L1) Theta=90deg



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



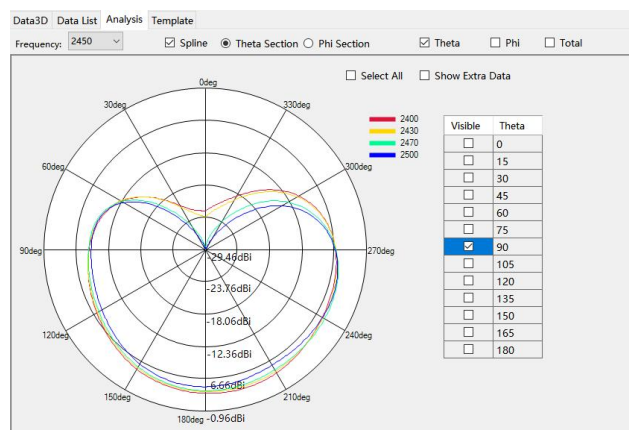
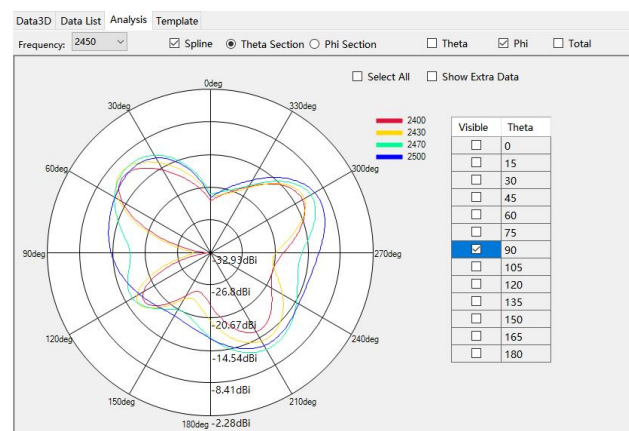
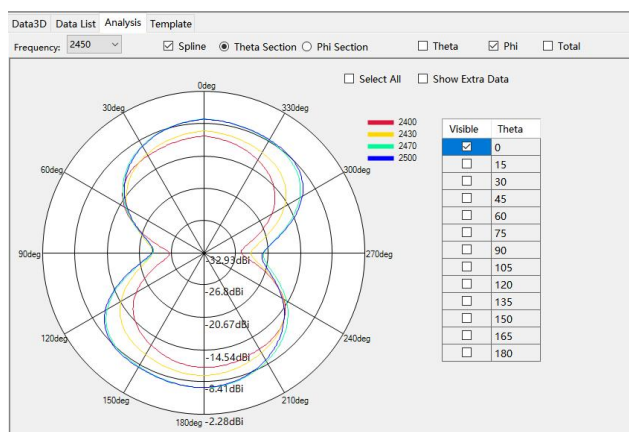
WIFI 2.4G/BT $\Phi=90^\circ$

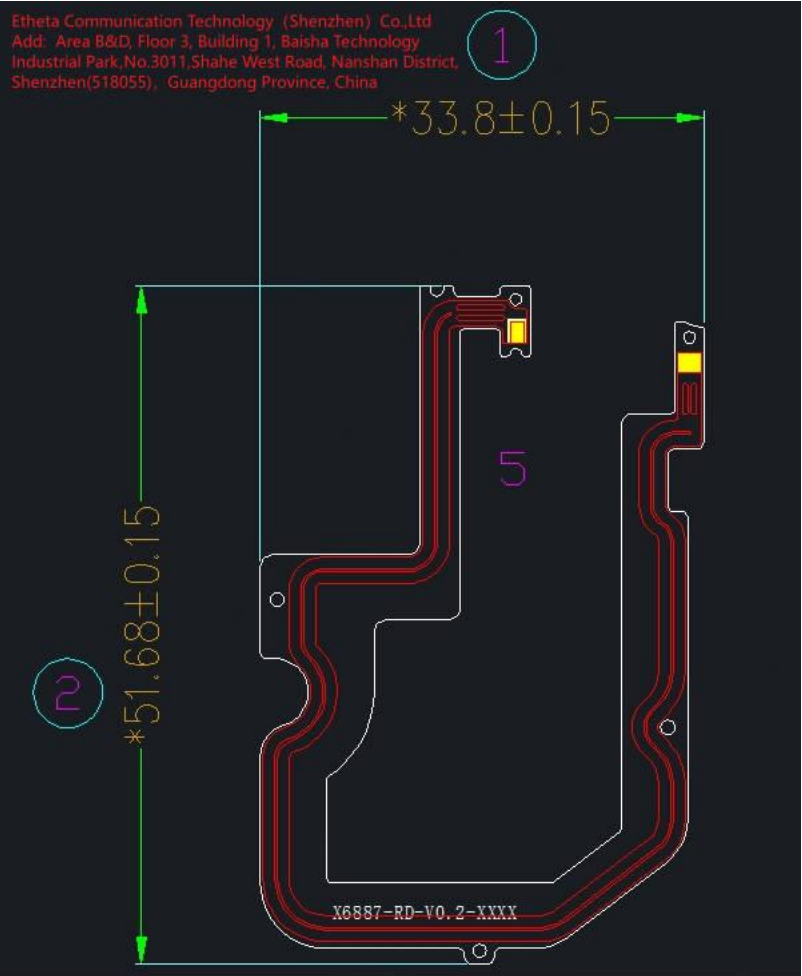


WIFI 2.4G/BT $\Theta=90^\circ$

※ Antenna Gain

ANT13





PREPARED BY	CHECKEDBY	APPROVAL BY	S.R.NO	
			DATE:	2025/09/15