

SPECIFICATION FOR APPROVAL

CUSTOMER :	Kingnet
CUSTOMER MODEL NO :	15dBi Plane Antenna For NGP_LCP
XUNDA PRODUCT P/N :	XD1C-B180B15D-01A
PRODUCT TYPE :	5G Antenna
REVISION:	V0.1
DATE:	2020-11-09

XUNDA TECHNOLOGY			CUSTOMER APPROVED		
PREPARED BY	CHECKED BY	APPROVED BY	PREPARED BY	CHECKED BY	APPROVED BY
Chenghuian	Zhangxun	Duanwei			

Version Information

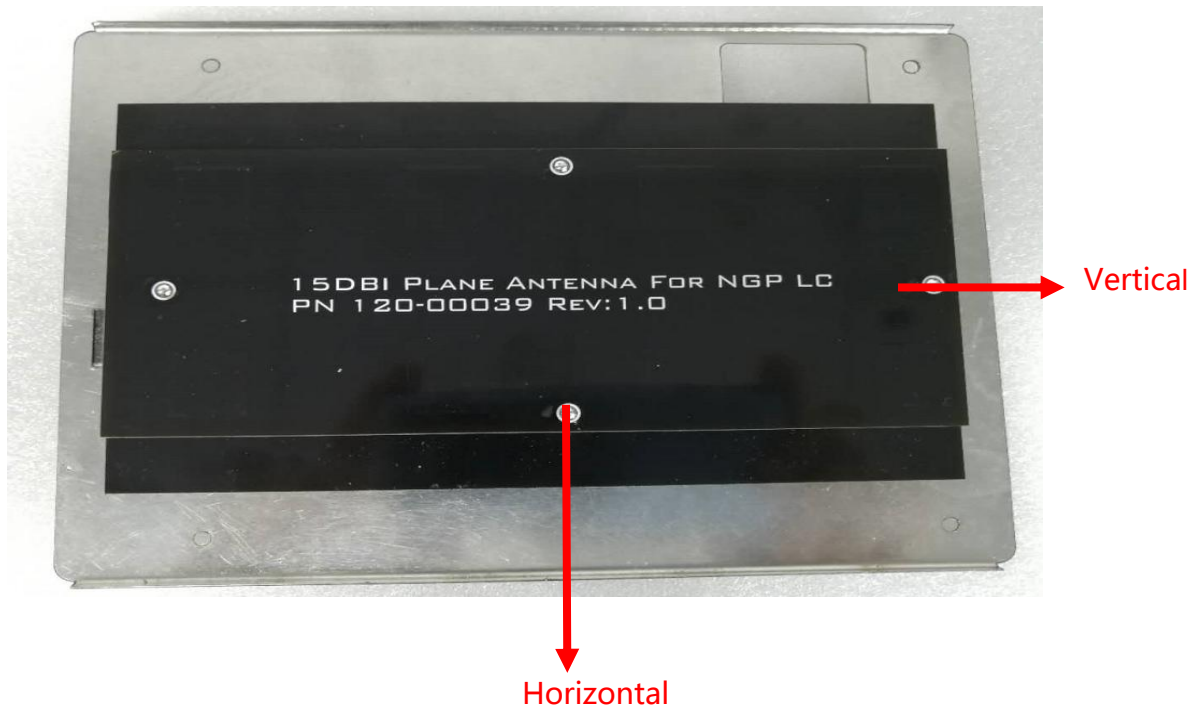
Date	Revision	Comment	Author
2020-11-09	0.1	Initial released	Chenghuian

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1 Overall performance

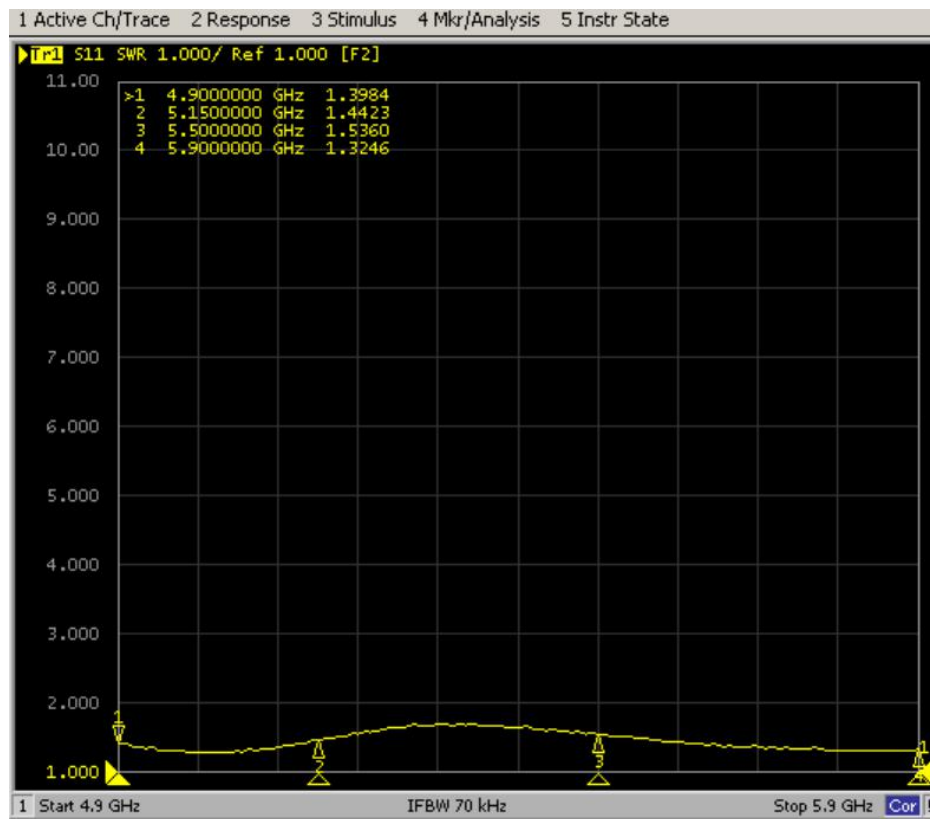
Specification		
Port	Port #1	Port #2
Frequency	4940~4990 MHz / 5150 ~ 5875MHz	
Polarization	Vertical (0°)	Horizontal (90°)
VSWR	< 2.5 : 1 max.	
Isolation	> 30dB typl.	
Gain*	12~13 dBi/15~16 dBi	
Sidelobe level	Na / 12 dB min.	Na / 10 dB min
H-plane HPBW	40° / 38° ~ 31°	36° / 30° ~ 34°
V-plane HPBW	18° / 16° ~ 14°	20° / 17° ~ 14°
Dimension	182x 135 x 7.1 mm	
Connector	UF.L X2	
Jumper cable**	RG-178-UF.L, 180 mm	RG-178-UF.L, 130 mm



2、Antenna electric performance

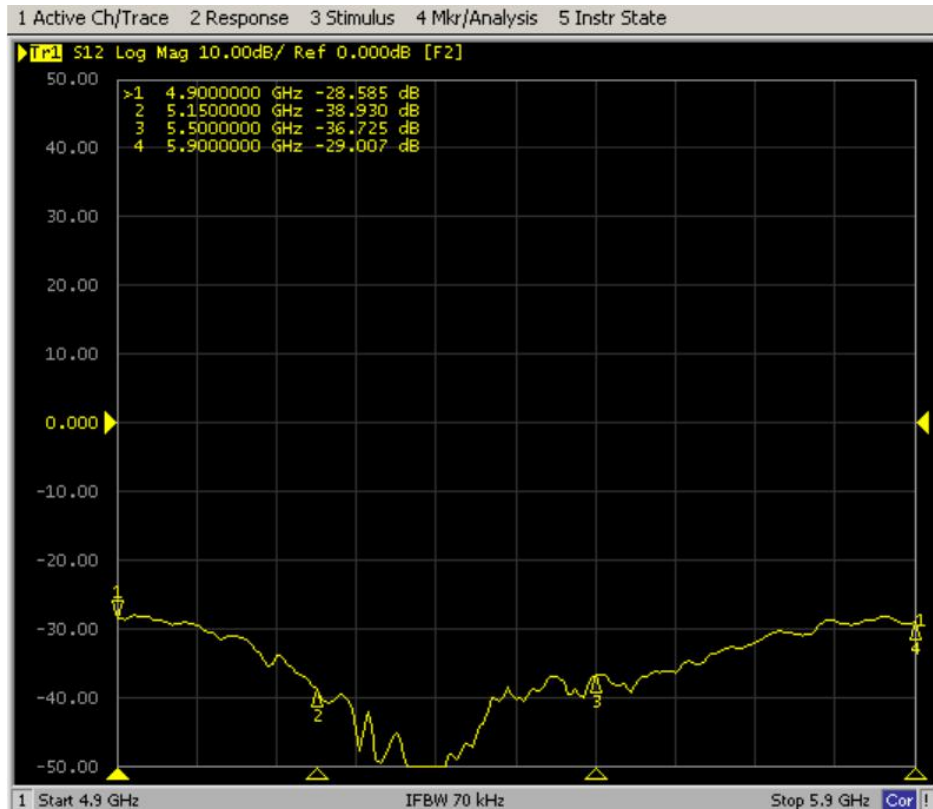
2.1 Port#1: V-polar

2.1.1 Frequency、VSWR



Port #1 VSWR Test

2.1.2 Isolation

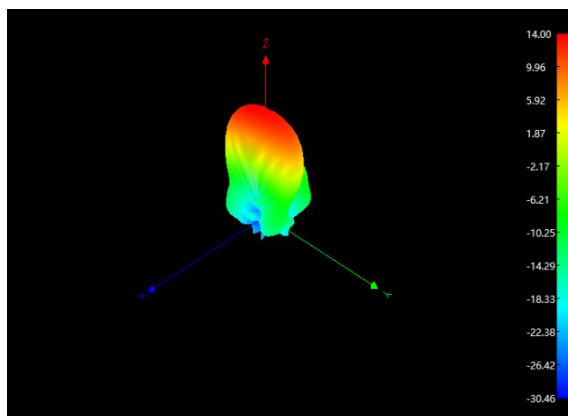


Port #1 and Port #2 Isolation Test

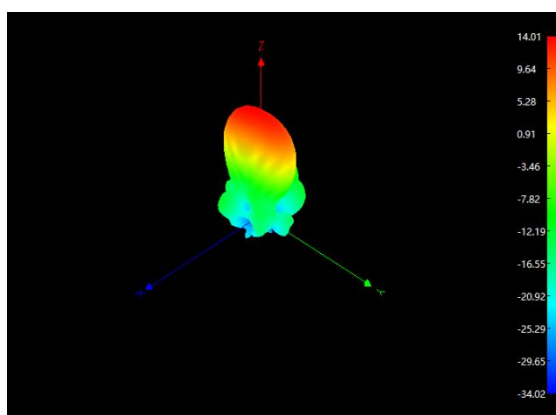
2.1.3 3D Radiation Pattern Test

Port#1: V-polar. Port

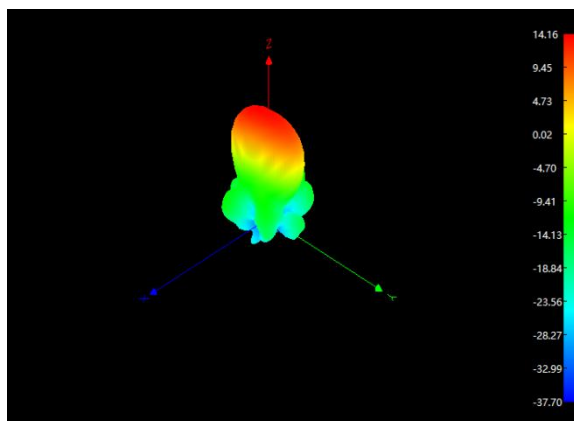
Frequency / MHz	Gain / dBi
4900	14.00
5000	14.01
5100	14.16
5200	14.13
5300	14.21
5400	14.92
5500	14.80
5600	15.13
5700	14.93
5800	16.09
5900	16.05



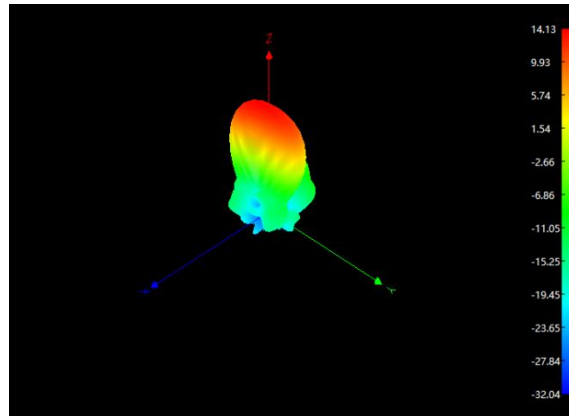
Port1 Vertical (4900MHz - 3D Radiationwith MaxGain)



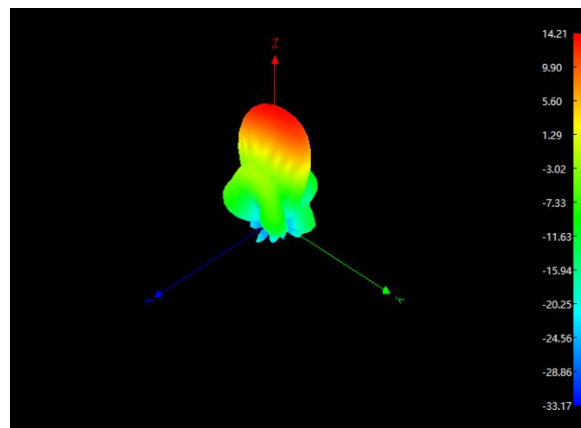
Port1 Vertical (5000MHz - 3D Radiationwith MaxGain)



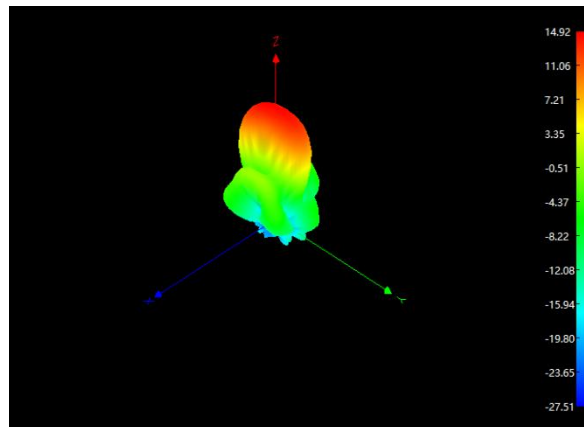
Port1 Vertical (5100MHz - 3D Radiationwith MaxGain)



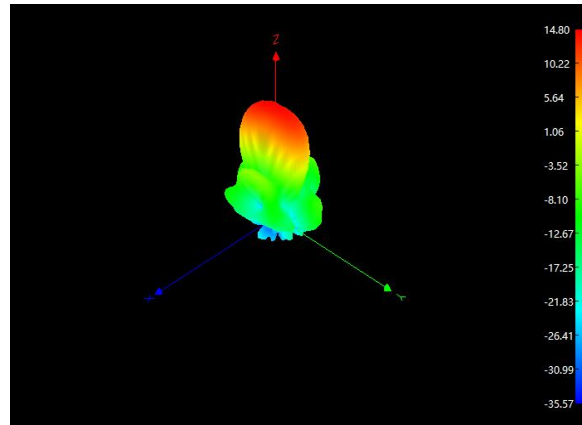
Port1 Vertical (5200MHz - 3D Radiationwith MaxGain)



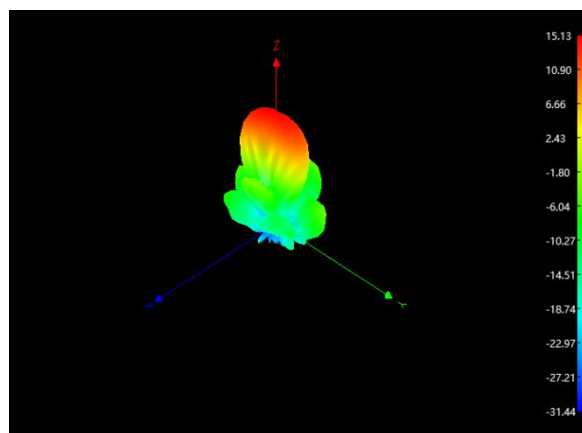
Port1 Vertical (5300MHz - 3D Radiationwith MaxGain)



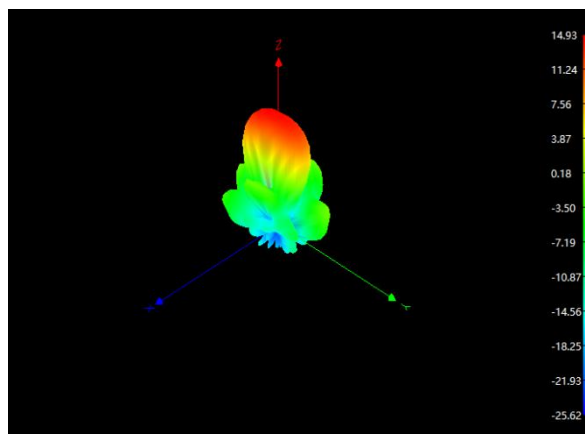
Port1 Vertical (5400MHz - 3D Radiationwith MaxGain)



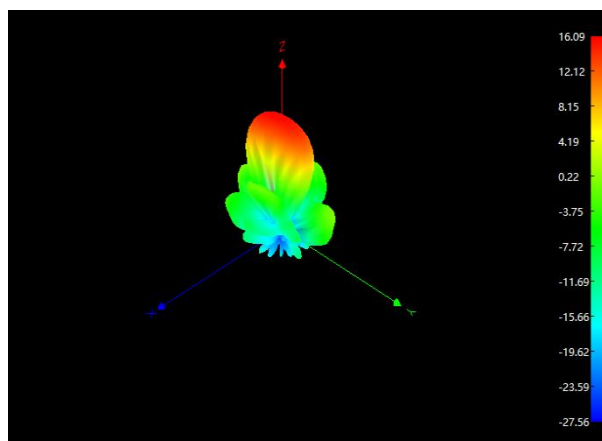
Port1 Vertical (5500MHz - 3D Radiationwith MaxGain)



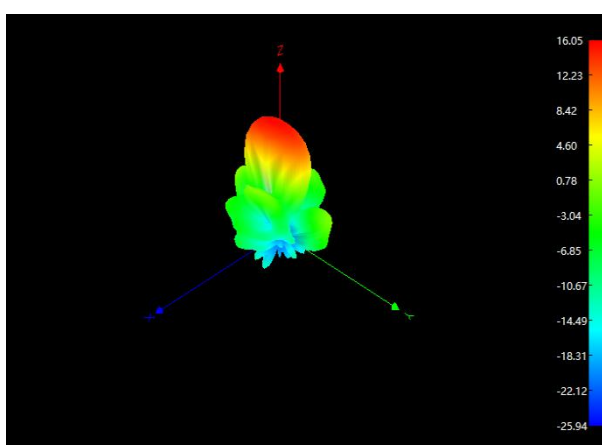
Port1 Vertical (5600MHz - 3D Radiationwith MaxGain)



Port1 Vertical (5700MHz - 3D Radiationwith MaxGain)



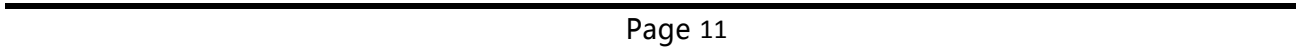
Port1 Vertical (5800MHz - 3D Radiationwith MaxGain

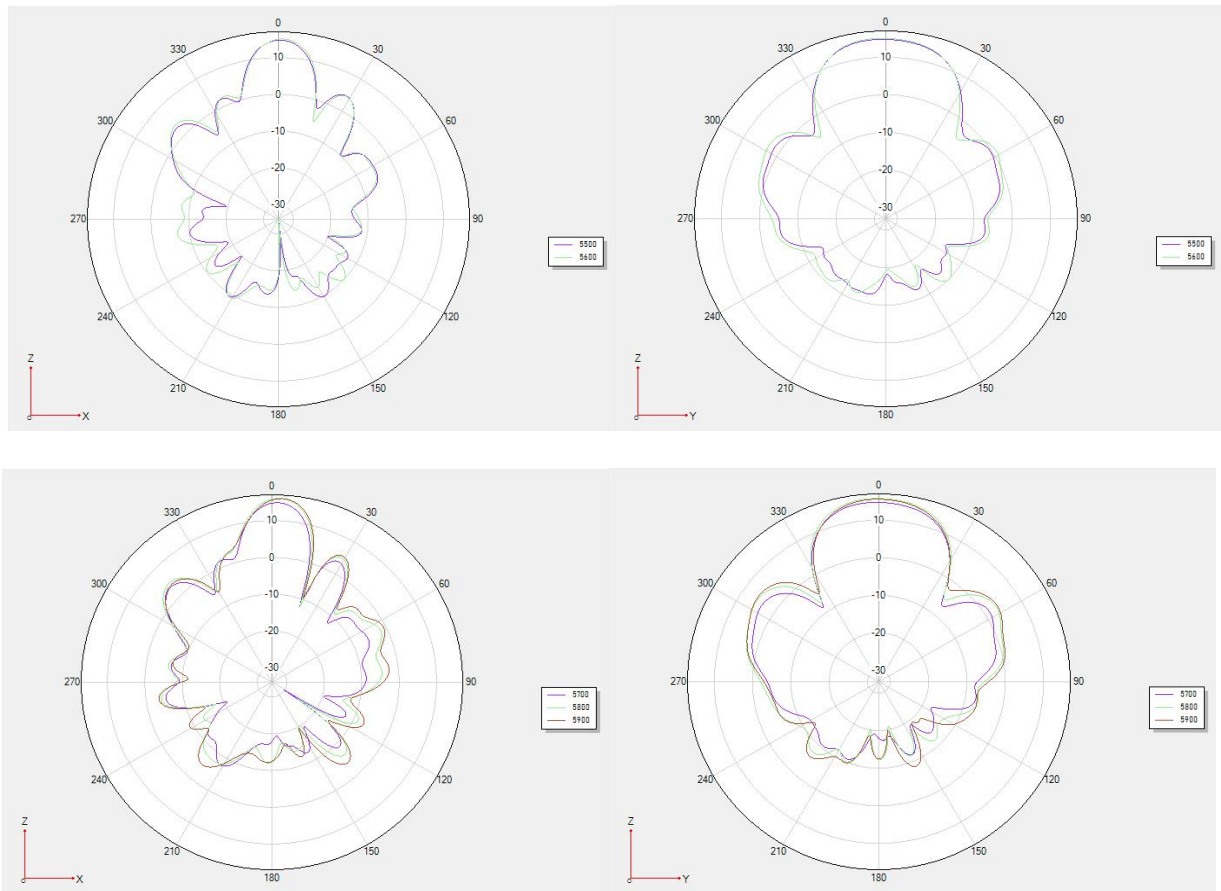


Port1 Horizontal (5900MHz - 3D Radiationwith MaxGain

2.1.4 2D Coverage Pattern

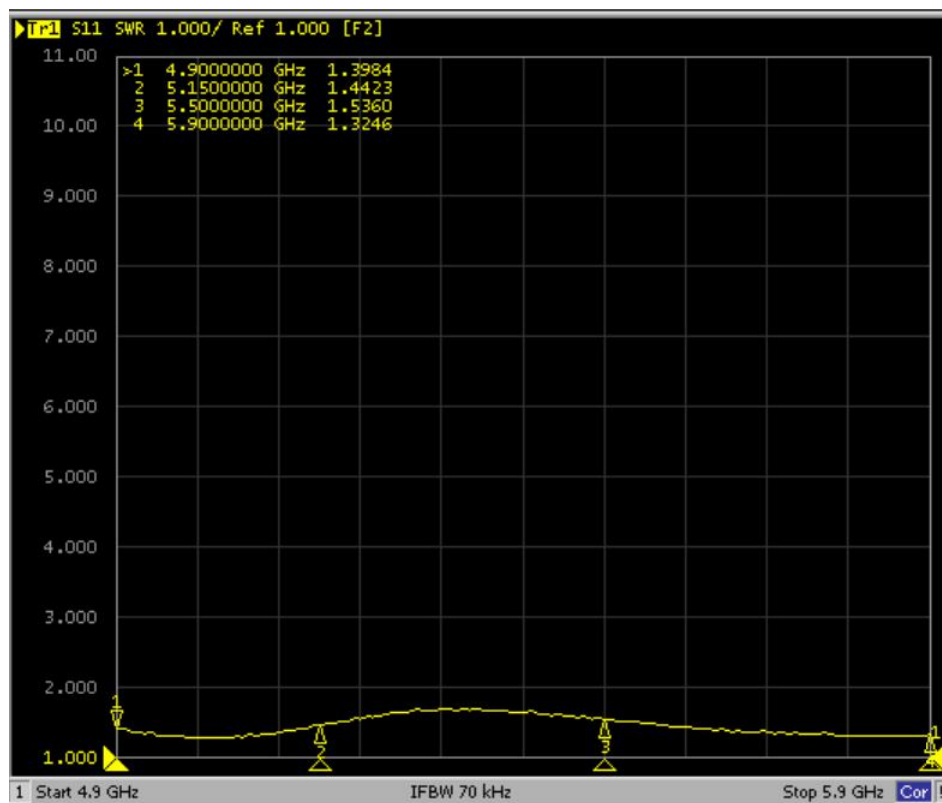
Frequency / MHz	Gain / dBi		HPBW (degree)	
	V-plane	H-plane	V-plane	H-plane
4900	13.95	13.81	18	44
5000	13.96	13.83	18	43
5100	13.93	13.86	17	41
5200	13.96	13.93	17	41
5300	14.20	14.21	16	41
5400	14.89	14.92	16	38
5500	14.75	14.77	16	38
5600	15.07	15.04	15	37
5700	14.89	14.76	15	36
5800	16.06	15.82	15	35
5900	16.03	15.58	15	34





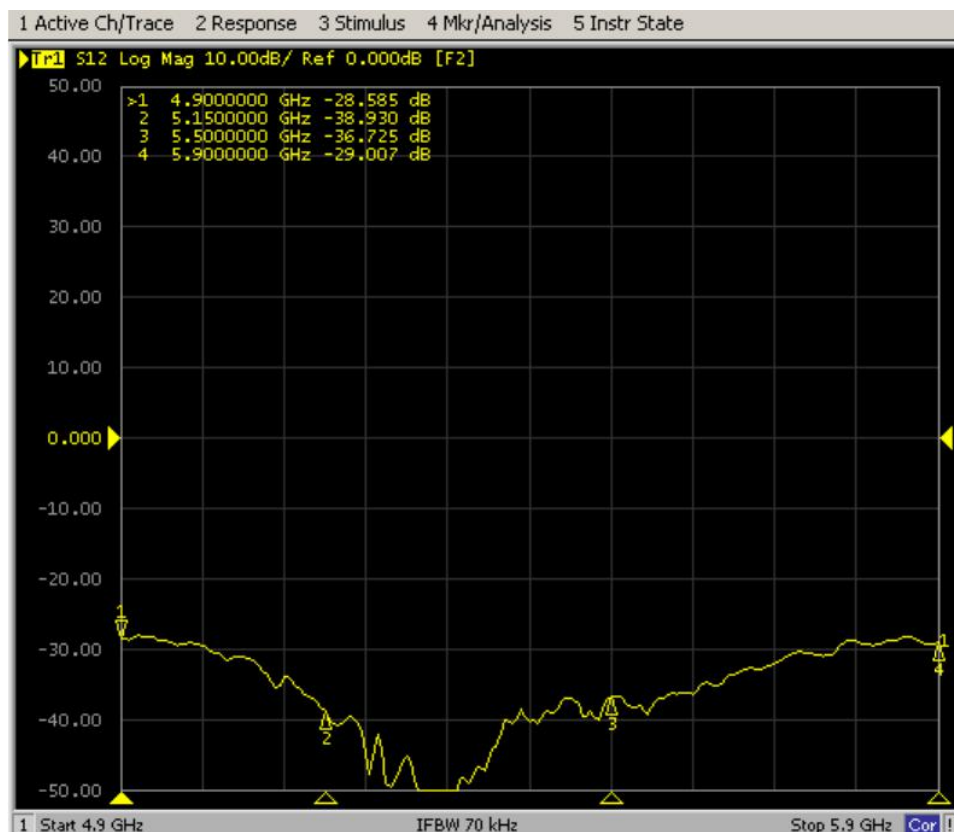
2.2 Port#2: H-polar

2.2.1 Frequency、VSWR



Port #2 VSWR Test

2.2.2 Isolation

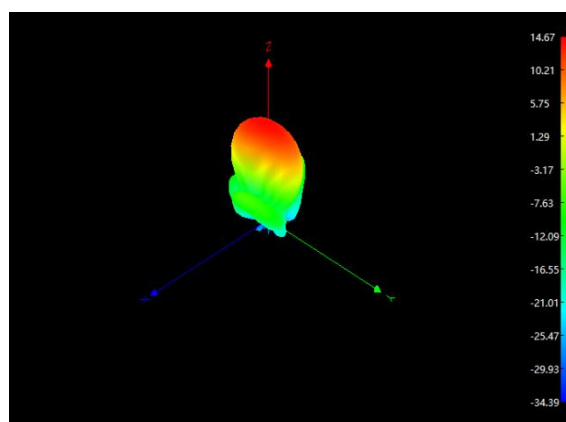


Por2_ Horizontal & Port2_ Vertical

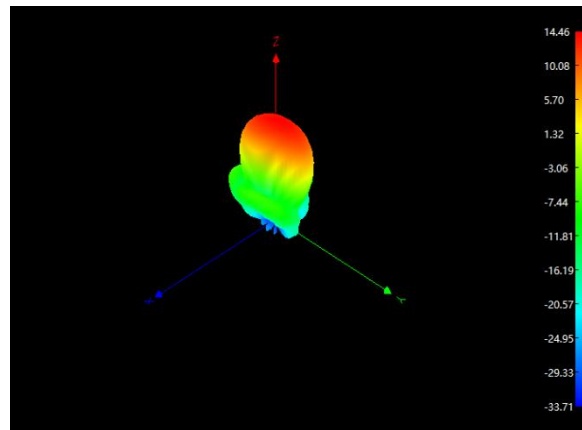
2.2.3 3D Field Pattern And Maximum Gain

Port#2: H-polar. Port

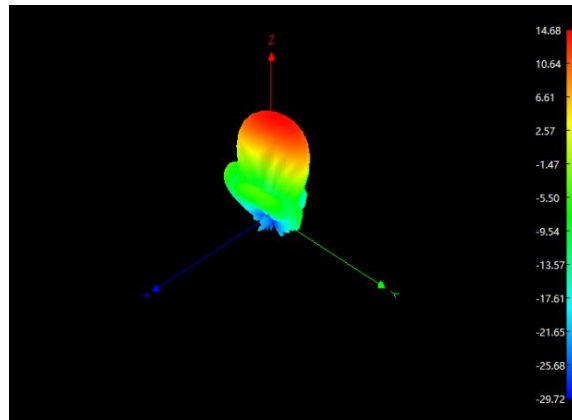
Frequency / MHz	Gain / dBi
4900	14.67
5000	14.46
5100	14.68
5200	14.76
5300	14.61
5400	14.74
5500	14.81
5600	15.05
5700	14.69
5800	14.85
5900	14.84



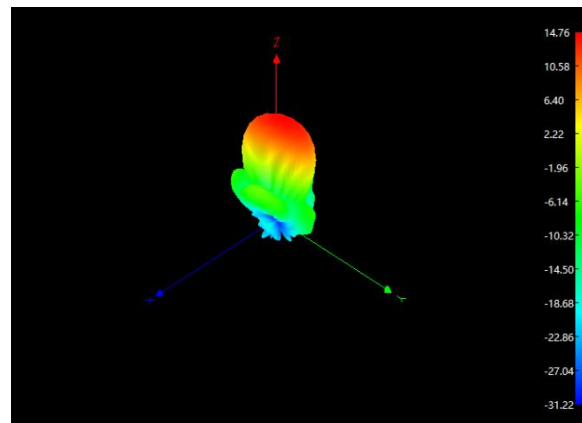
Port2 Horizontal (4900MHz - 3D Radiationwith MaxGain)



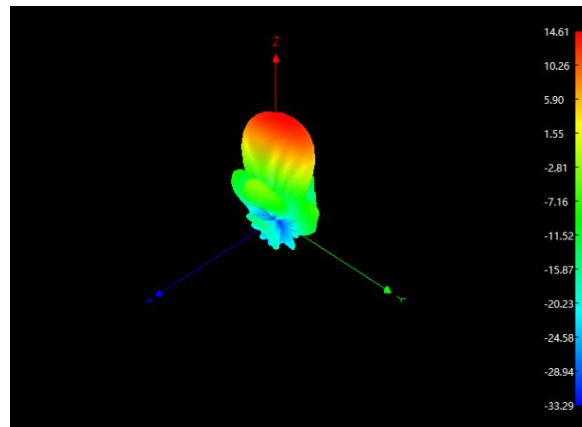
Port2 Horizontal (5000MHz - 3D Radiationwith MaxGain)



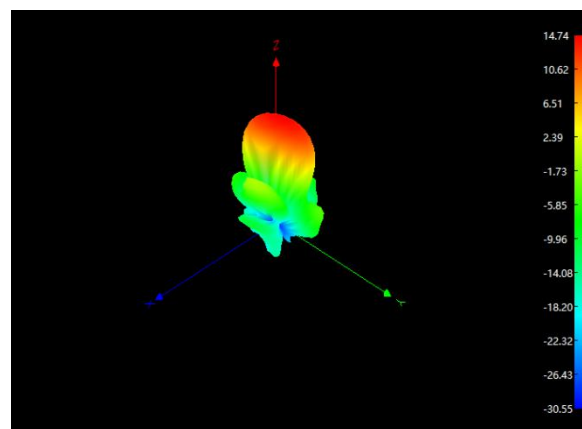
Port2 Horizontal (5100MHz - 3D Radiationwith MaxGain)



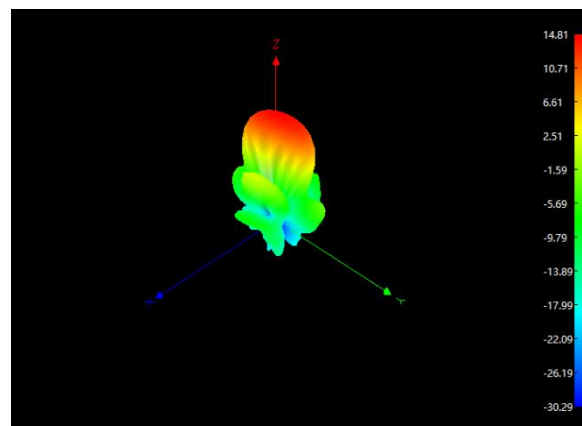
Port2 Horizontal (5200MHz - 3D Radiationwith MaxGain)



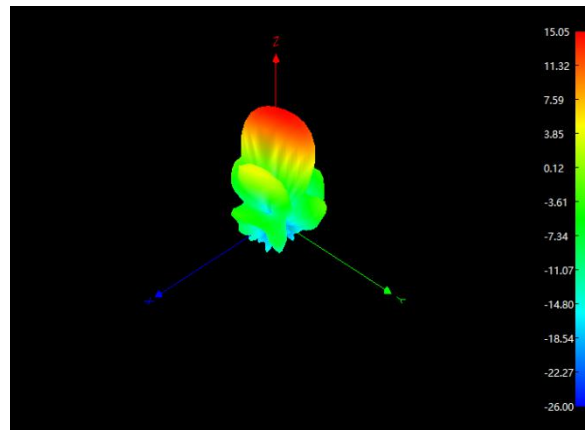
Port2 Horizontal (5300MHz - 3D Radiationwith MaxGain)



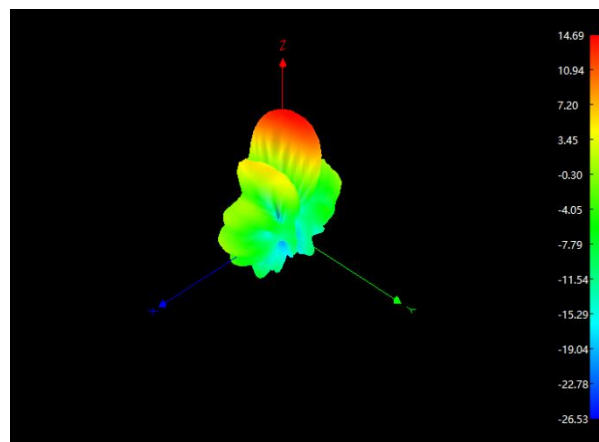
Port2 Horizontal (5400MHz - 3D Radiationwith MaxGain)



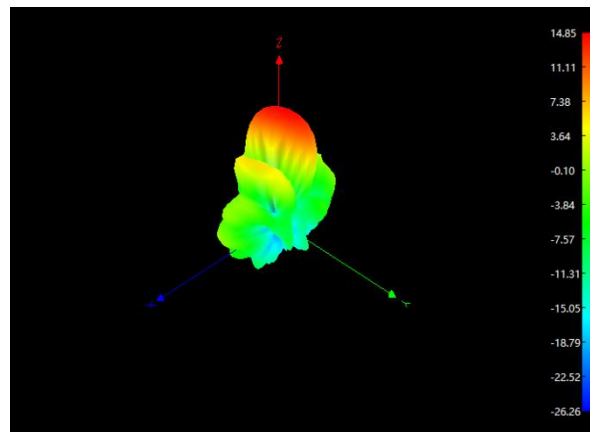
Port2 Horizontal (5500MHz - 3D Radiationwith MaxGain)



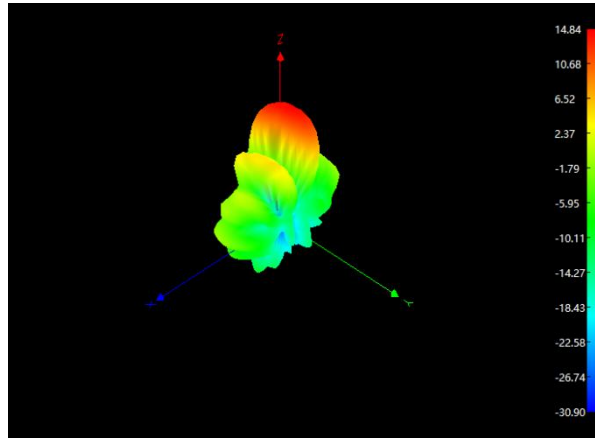
Port2 Horizontal (5600MHz - 3D Radiationwith MaxGain



Port2 Horizontal (5700MHz - 3D Radiationwith MaxGain



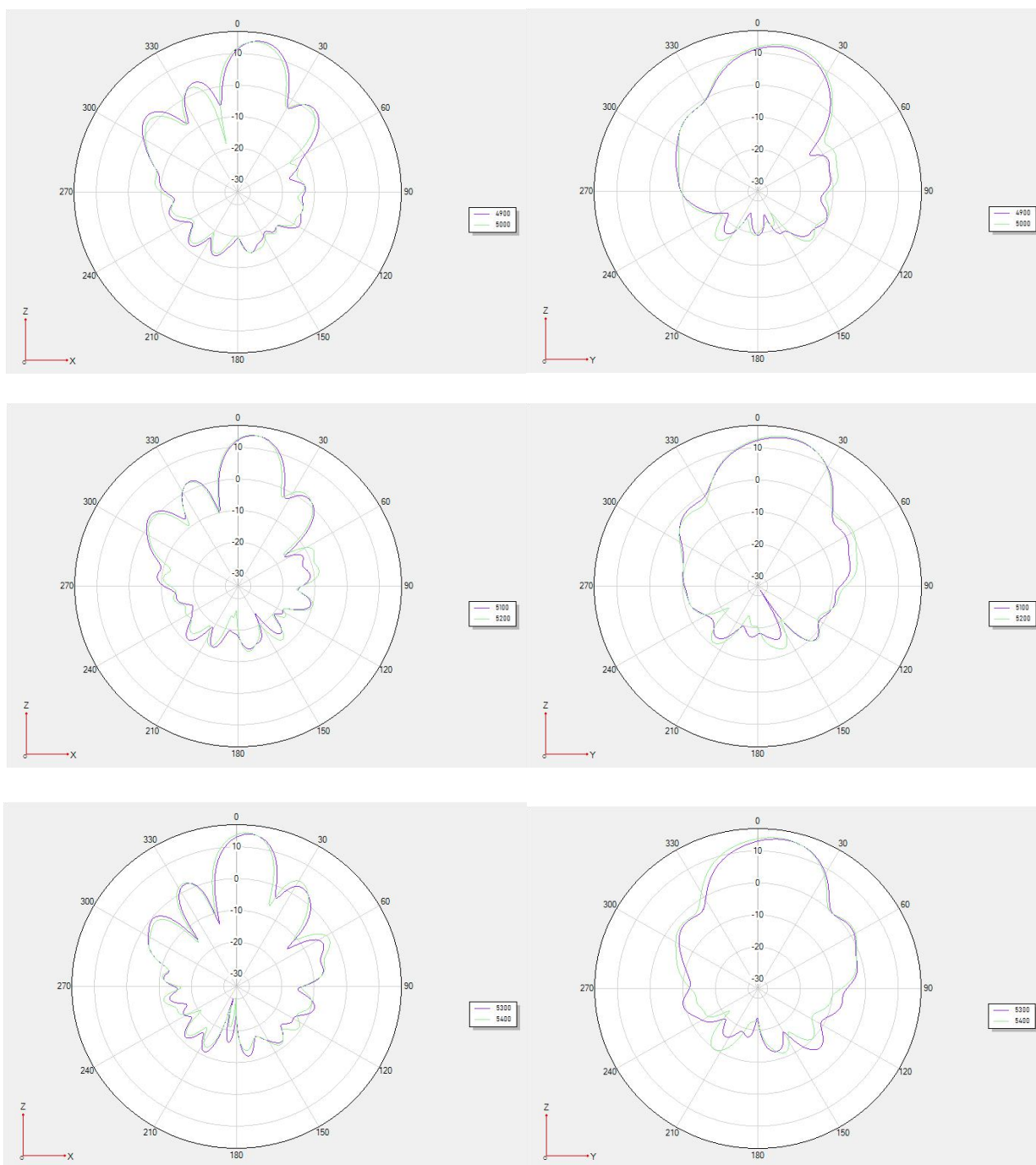
Port2 Horizontal (5800MHz - 3D Radiationwith MaxGain

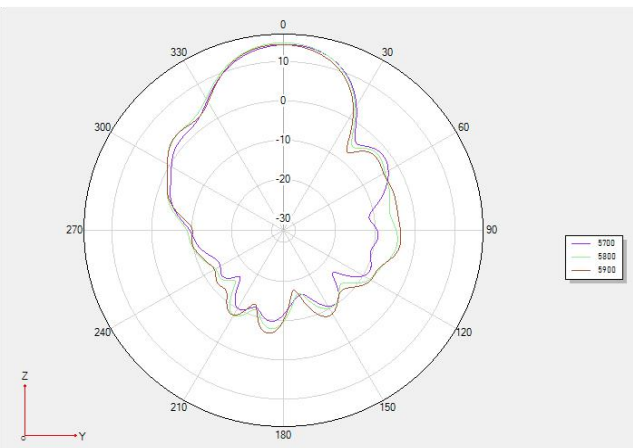
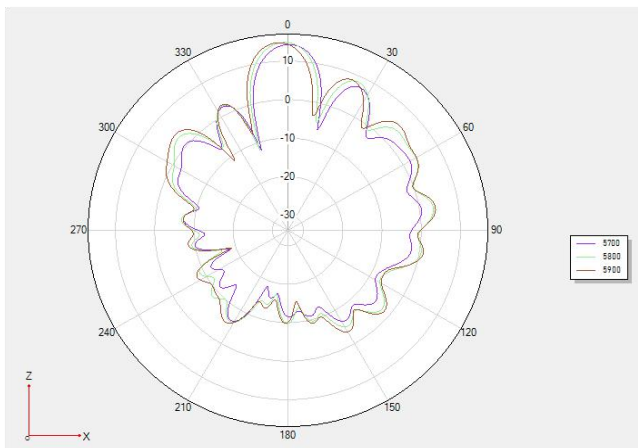
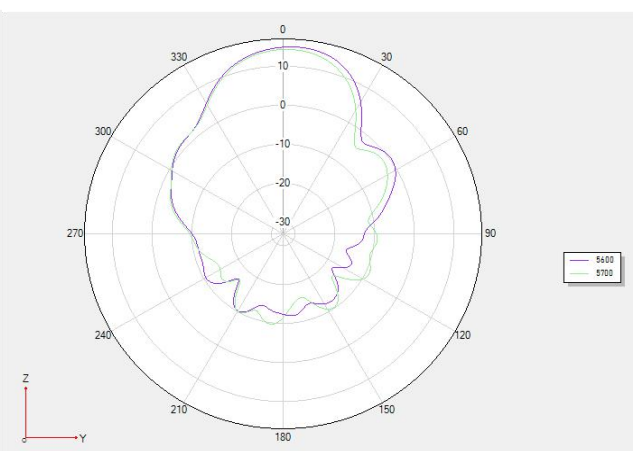
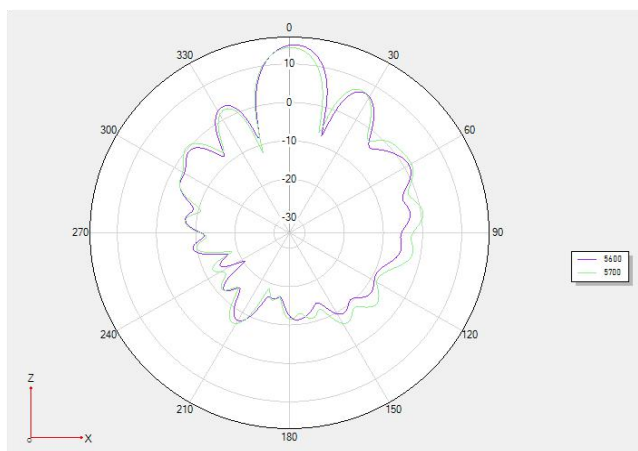
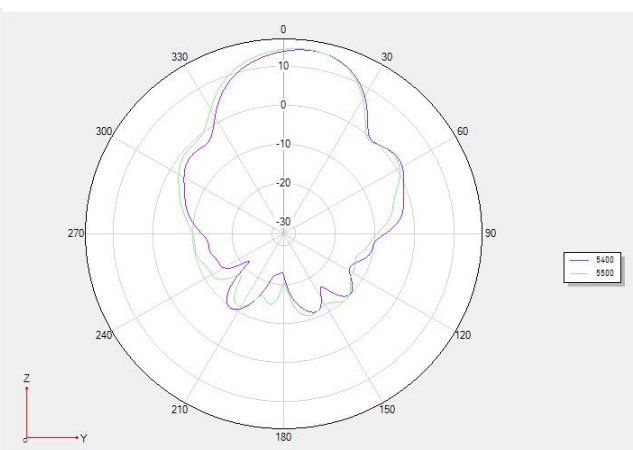
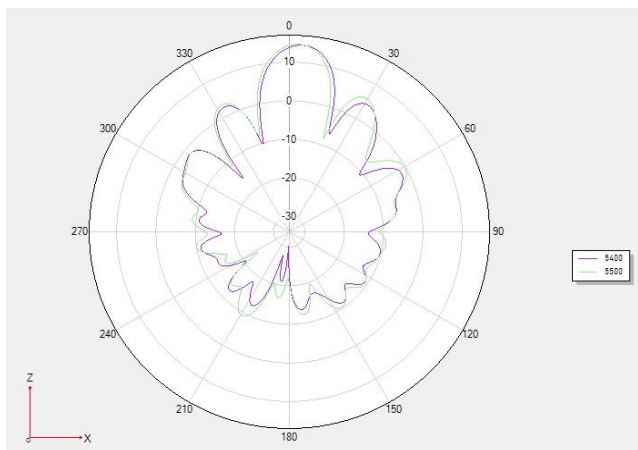


Port2 Horizontal (5900MHz - 3D Radiationwith MaxGain

2.2.4 2D Coverage Pattern

Frequency / MHz	Gain / dBi		HPBW (degree)	
	H-plane	V-plane	H-plane	V-plane
4900	13.65	14.39	32	17
5000	13.46	14.02	33	17
5100	13.92	14.06	32	17
5200	14.24	14.15	33	16
5300	14.21	14.18	33	16
5400	14.50	14.50	34	16
5500	15.02	14.99	34	16
5600	14.31	14.29	35	15
5700	14.31	14.29	34	15
5800	14.78	14.84	34	14
5900	14.35	14.82	33	14





3. Product Drawing

