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Sample Name: Antenna Connection Line			Yunlian Youke<Customer>
Sample part number: KS030-10012-A/PJ-NZLJX-002 New part number 49-01113004602			
Specification description: 2.4GHz&5.8GHz built-in antenna 100MM (1.13 double silver wire) peeled tin plated with adhesive backing			
Application model:			Admitted version: V1
Number of acknowledgments	3 share	Sample quantity:	3 PCS
Reason for application	☐ New Product Requirements (New)	☐ Alternative materials	Raw material model:
	☐ Add backup suppliers	☐ Original supplier:	
	☐ Cost reduction		
Recognition precautions	1、		
	2、		
	3、		

Directory

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Product Specification Overview

●Electrical Performance:

1. Frequency Range: 2.4Ghz&5.8Ghz
2. Impedance: 50 Ohms nominal
3. VSWR: ≤ 1.92
4. Gain: 3~4dBi
5. Admitted power radiation: 1W
6. Radiation of Radiation: Toroidal
7. Radiation: Omni
8. Polarization: Vertical
9. Connector Type: TIN

●Mechanical properties:

1. Cable: MI1.13mm Light Gray ,50 Ohm
2. Operation temperature range: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
3. Storage temperature range: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$

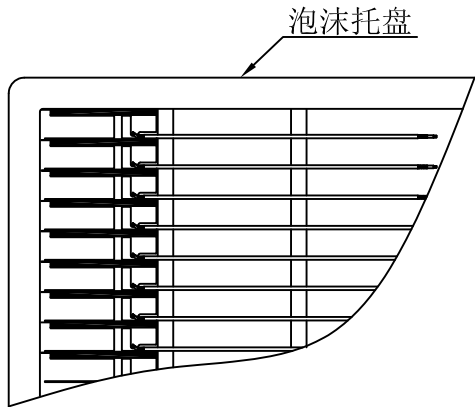
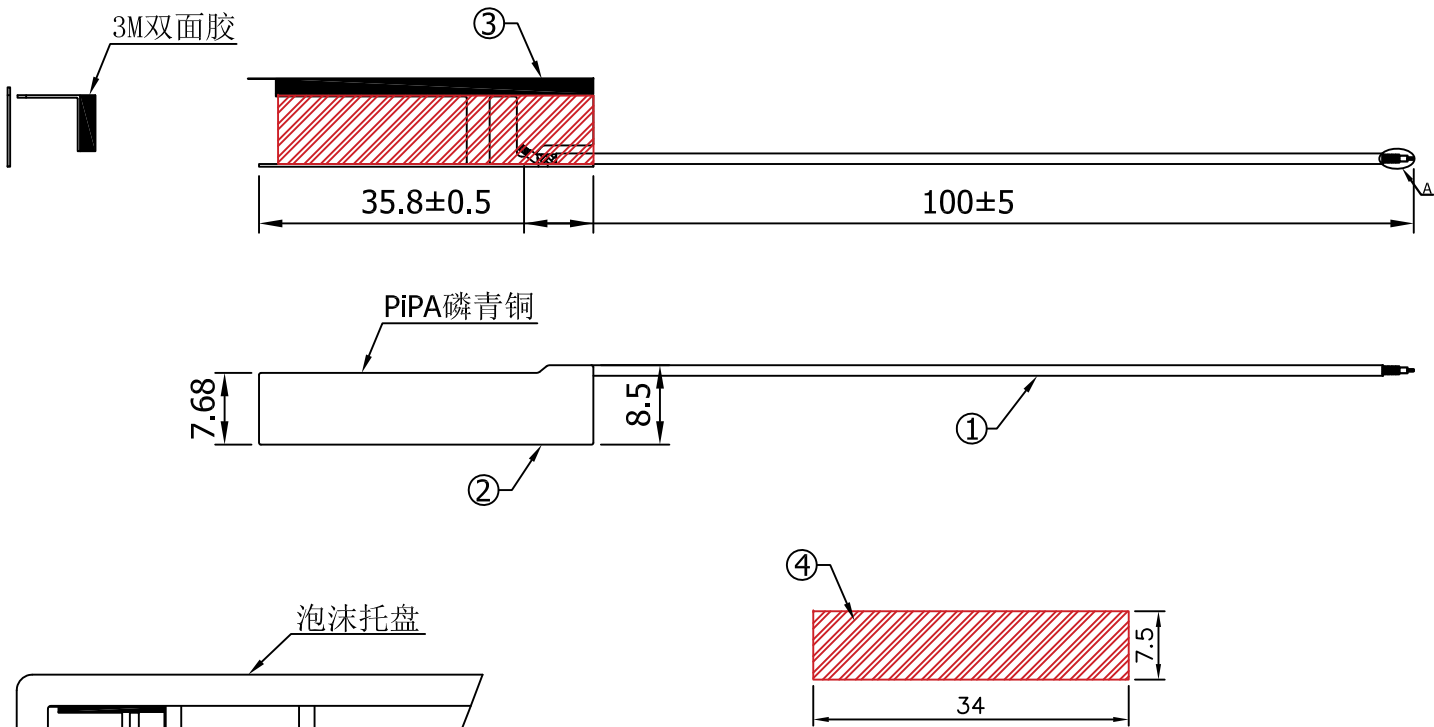
●The product structure pictures



成品图

ROHS

REV.	修 订 内 容	修 订 时 间
A	新 版 发 行	2022.4.27



Packing:40pcs/Row, 240pcs/Disc

Specification:
Frequency Rang:2.4GHz&5.8GHz
Impedance:50Ω
Gain:3~4dBi

4	海绵	黑色海绵,L34*W7.5*T6.5mm	1	
3	双面胶	3M,L34*W6*T1.6mm	1	
2	PiFA	Phosphor bronze,Ni-Plated,T=0.28mm	1	
1	Cable	1.13 Cable,Double silver light gray,50Ω	1	
NO.	DESCRIPTION		Q'TY	REMARK

TITLE:		PiFA ANTENNA		深圳市麒新弘泽科技有限公司 ShenZhen Keesun Technology Co.,Ltd							
P/N:		PJ-NZLJX-002									
CUSTOMER:		KS030									
DRAW NO.:		KS030-10012-A				APPROVED					
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED						CHECKED					
一般公差 TOLERANCE		.XXX	±0.05	XX.	±1.0	SHEET: 1/1	SCALE: 1:1	UNIT: mm	REV.A	DRAWED	郭 淑 英
		.XX	±0.1								
		.X	±0.2								
		X.	±0.5								

Network analyzer test chart

料号: KS030-10012-A

品名规格: 2.4GHz~5.8GHz

测试数值: Return Loss/VSWR

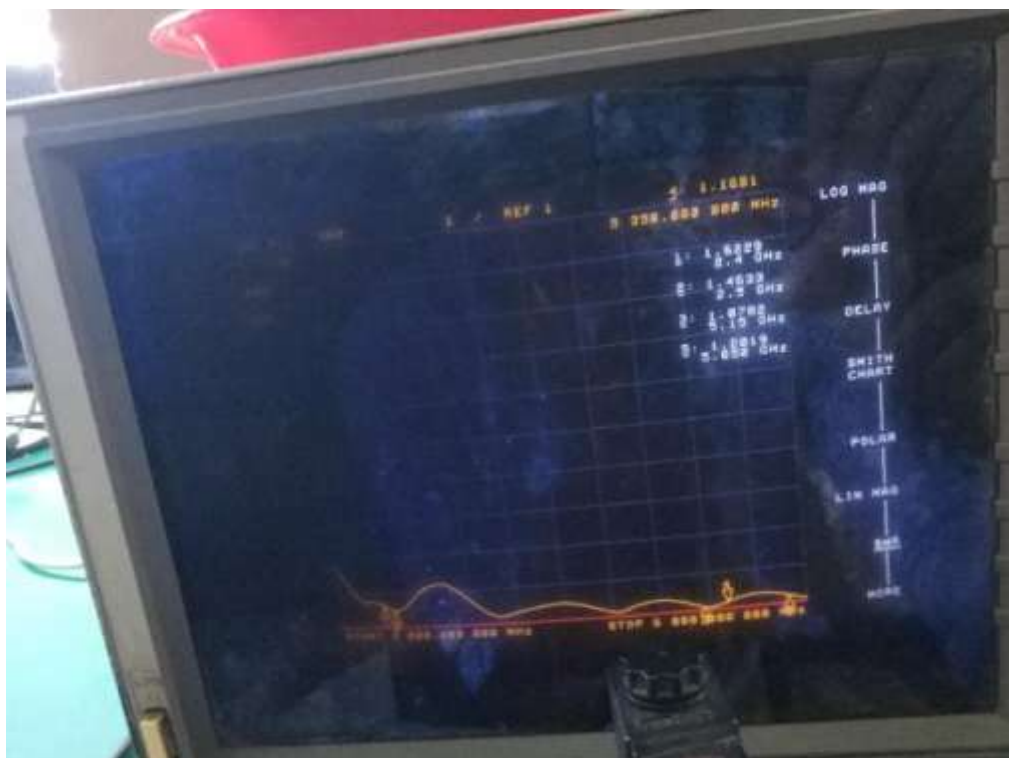
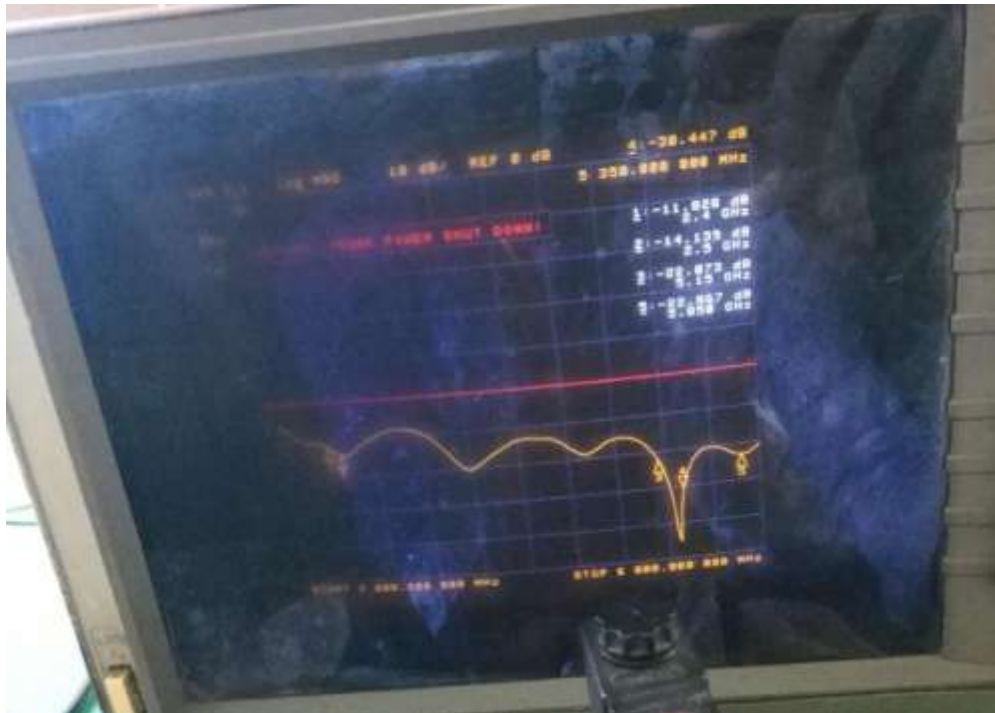


Network analyzer test chart

料号:KS030-10012-A

品名规格:2.4~2.5GHz /5.15~5.85G

测试数值:Return Loss/VSWR



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Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13
Frequency (MHz)	2412.0	2437.0	2462.0	2472.0	5100.0	5200.0	5300.0	5400.0	5500.0	5600.0	5700.0	5800.0	5900.0
Efficiency (dBi)	-1.05	-1.00	-1.05	-1.11	-0.60	-1.30	-1.52	-2.38	-1.83	-2.27	-2.19	-1.40	-1.05
Gain (dBi)	2.99	3.40	3.59	3.57	4.18	3.37	3.23	2.81	3.25	3.87	2.73	3.01	2.91
Efficiency (%)	78.59	79.38	78.57	77.37	87.15	74.12	70.46	57.76	65.68	59.32	60.37	72.45	78.54
Directivity (dB)	4.03	4.40	4.64	4.69	4.78	4.67	4.75	5.19	5.07	6.14	4.92	4.41	3.96
Peak Gain Position (Theta)	32.00	35.00	35.00	34.00	35.00	37.00	36.00	65.00	64.00	63.00	62.00	78.00	76.00
Peak Gain Position (Phi)	330.00	300.00	300.00	300.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00	180.00
Efficiency ThetaPol (%)	20.56	21.01	21.89	21.17	30.12	24.60	23.26	19.47	21.36	19.76	21.64	25.69	28.72
Efficiency PhiPol (%)	58.03	58.36	56.68	56.20	57.03	49.52	47.20	38.29	44.32	39.55	38.73	46.76	49.82
Upper Hem. Efficiency (%)	40.88	42.14	41.91	41.88	42.18	36.33	35.99	30.20	34.91	31.80	33.18	40.75	44.23
Lower Hem. Efficiency (%)	37.71	37.24	36.66	35.48	44.97	37.79	34.47	27.56	30.77	27.51	27.19	31.70	34.31

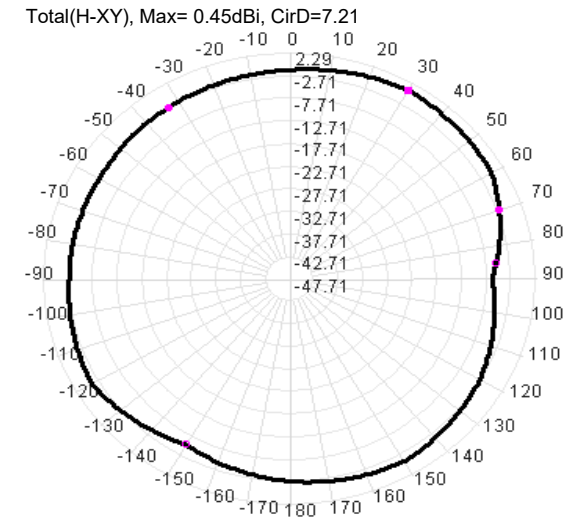
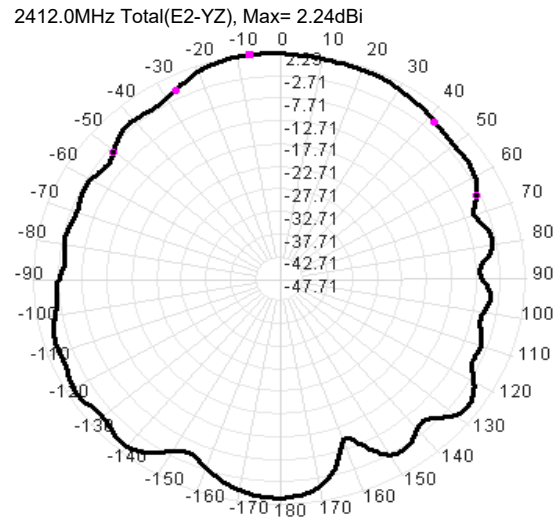
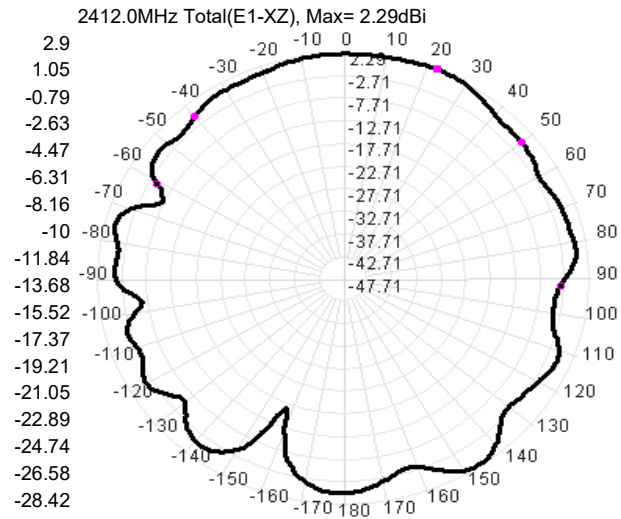
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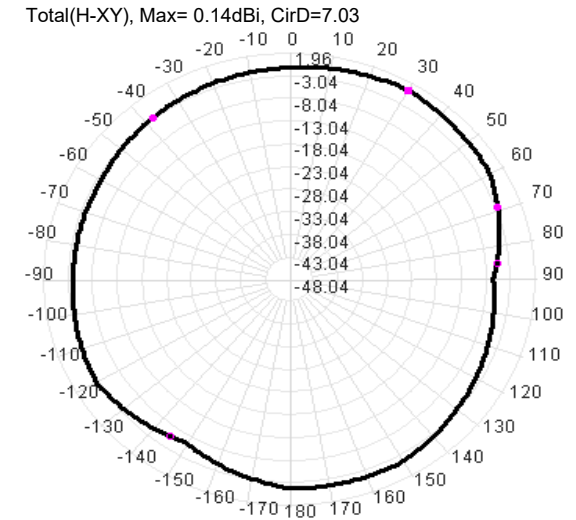
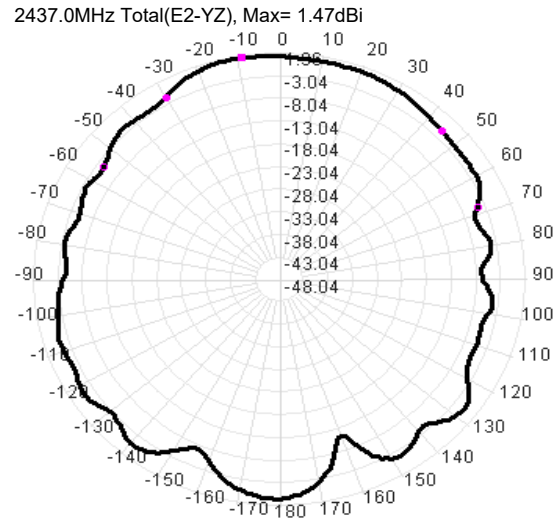
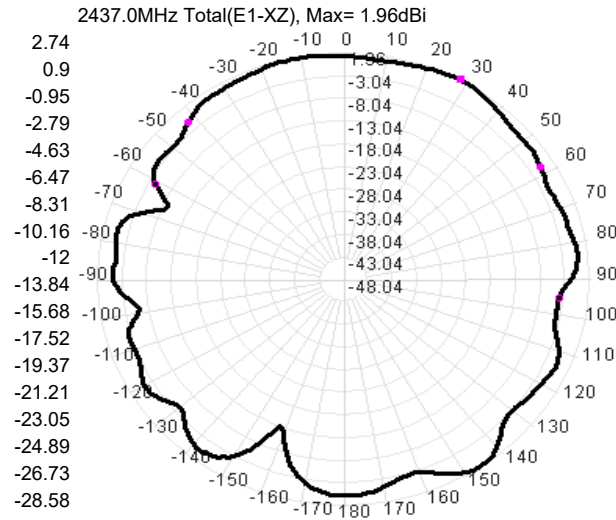
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13
Frequency (MHz)	2412.0	2437.0	2462.0	2472.0	5100.0	5200.0	5300.0	5400.0	5500.0	5600.0	5700.0	5800.0	5900.0
Efficiency (dBi)	-1.25	-1.50	-1.73	-2.14	-0.40	-1.13	-1.27	-2.22	-1.68	-2.25	-2.18	-1.56	-1.36
Gain (dBi)	2.90	2.74	2.33	2.14	4.61	4.28	3.97	3.46	3.47	3.45	2.51	2.63	2.72
Efficiency (%)	75.02	70.79	67.16	61.13	91.21	77.13	74.60	59.93	67.87	59.61	60.51	69.82	73.16
Directivity (dB)	4.14	4.24	4.06	4.28	5.01	5.41	5.24	5.68	5.16	5.70	4.69	4.19	4.08
Peak Gain Position (Theta)	39.00	35.00	37.00	37.00	93.00	91.00	89.00	88.00	86.00	85.00	129.00	82.00	115.00
Peak Gain Position (Phi)	300.00	330.00	300.00	300.00	150.00	150.00	150.00	150.00	150.00	150.00	0.00	150.00	180.00
Efficiency ThetaPol (%)	19.92	17.34	16.58	14.81	34.18	26.39	26.08	20.59	22.65	19.47	20.56	23.70	25.55
Efficiency PhiPol (%)	55.11	53.46	50.58	46.32	57.03	50.74	48.51	39.34	45.22	40.14	39.94	46.12	47.61
Upper Hem. Efficiency (%)	41.32	39.14	36.87	34.02	49.48	43.26	42.39	33.85	38.35	33.32	34.16	38.56	39.50
Lower Hem. Efficiency (%)	33.71	31.65	30.29	27.11	41.72	33.87	32.21	26.08	29.51	26.29	26.34	31.26	33.66

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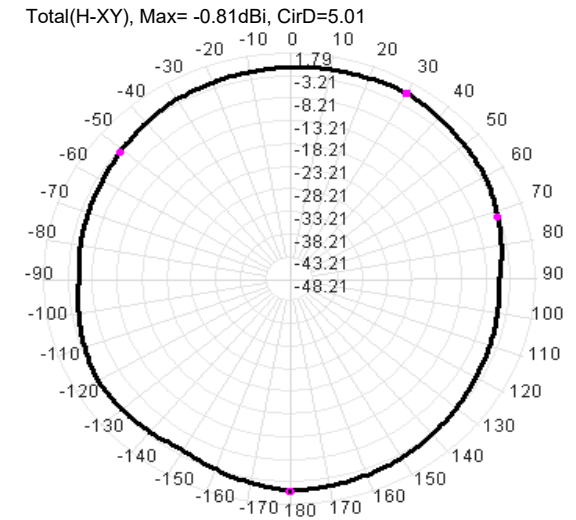
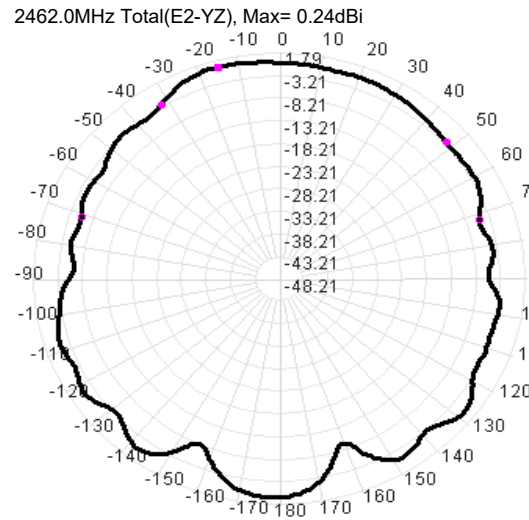
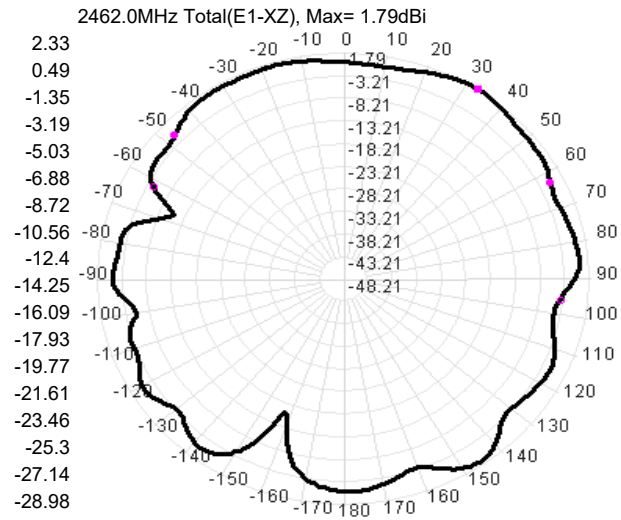
Radiation patterns—2D(2.4G#1)



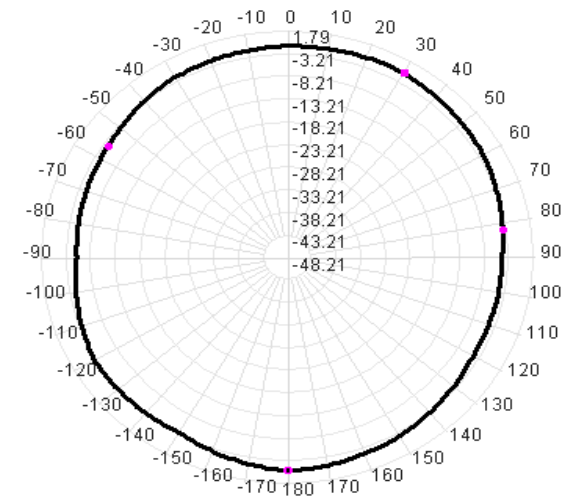
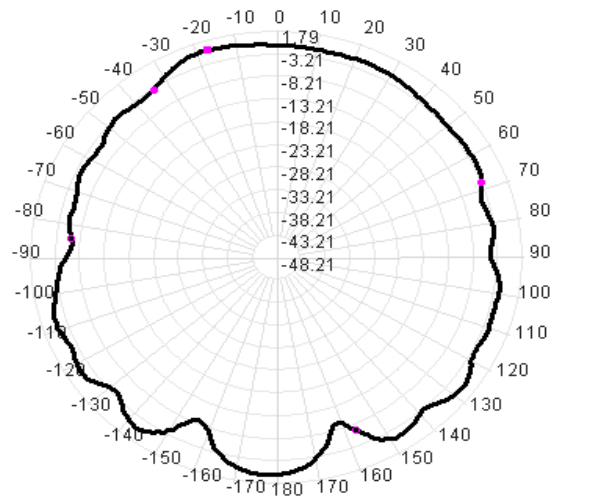
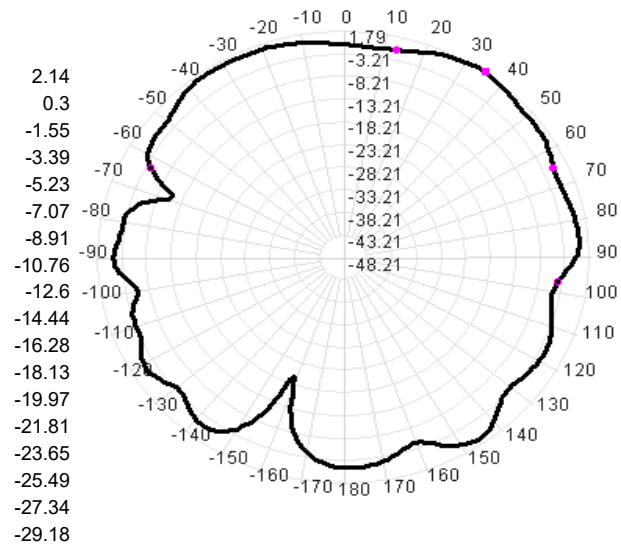
Radiation patterns—2D(2.4G#2)



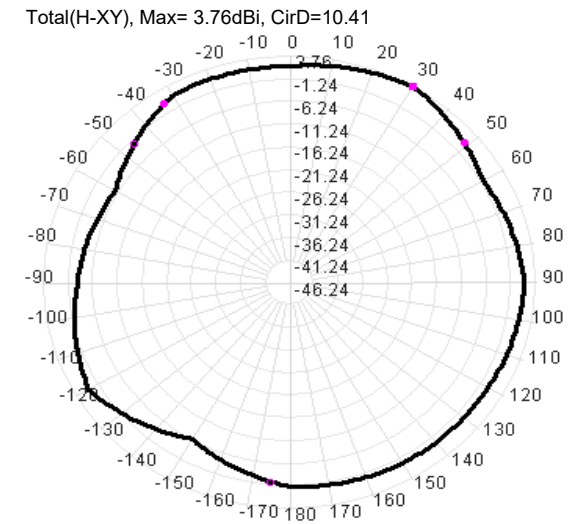
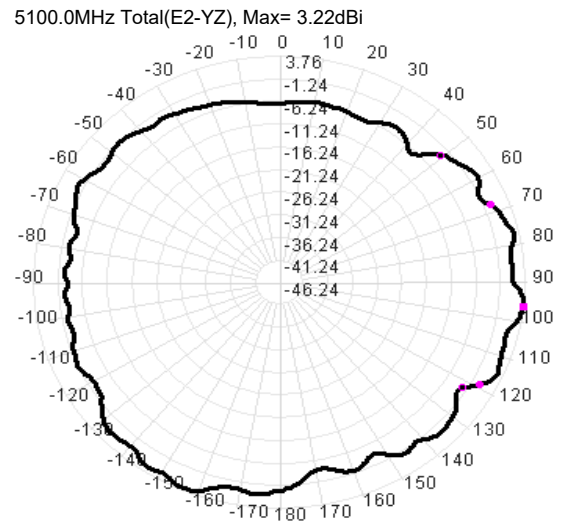
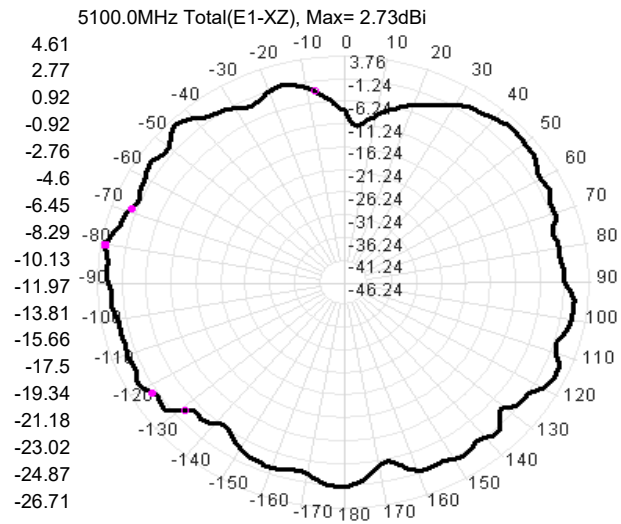
Radiation patterns—2D(2.4G#3)



Radiation patterns—2D(2.4G#4)

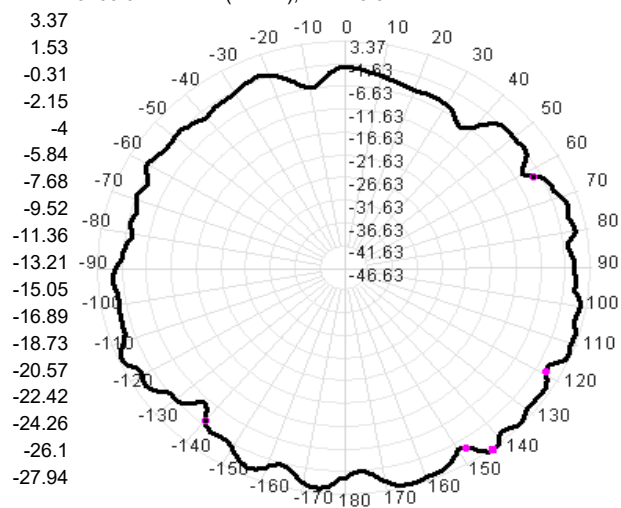


Radiation patterns—2D(5.8G#1)

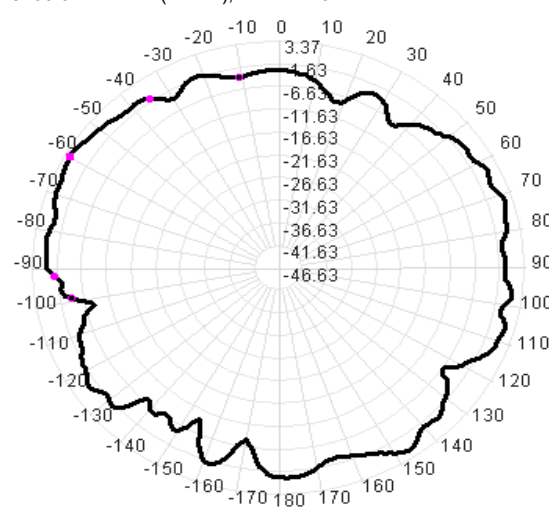


Radiation patterns—2D(5.8G#2)

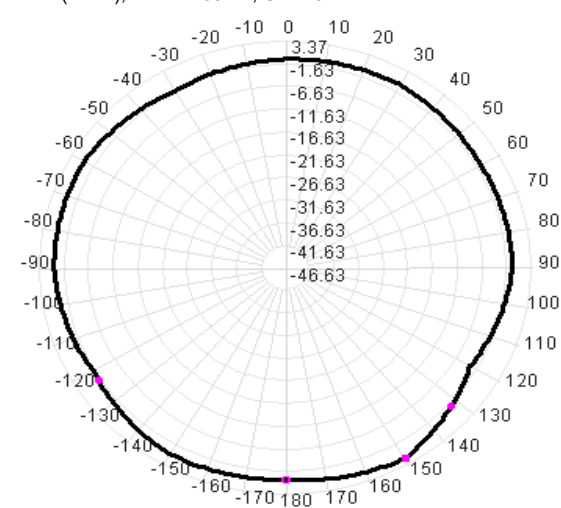
5200.0MHz Total(E1-XZ), Max= 3.37dBi



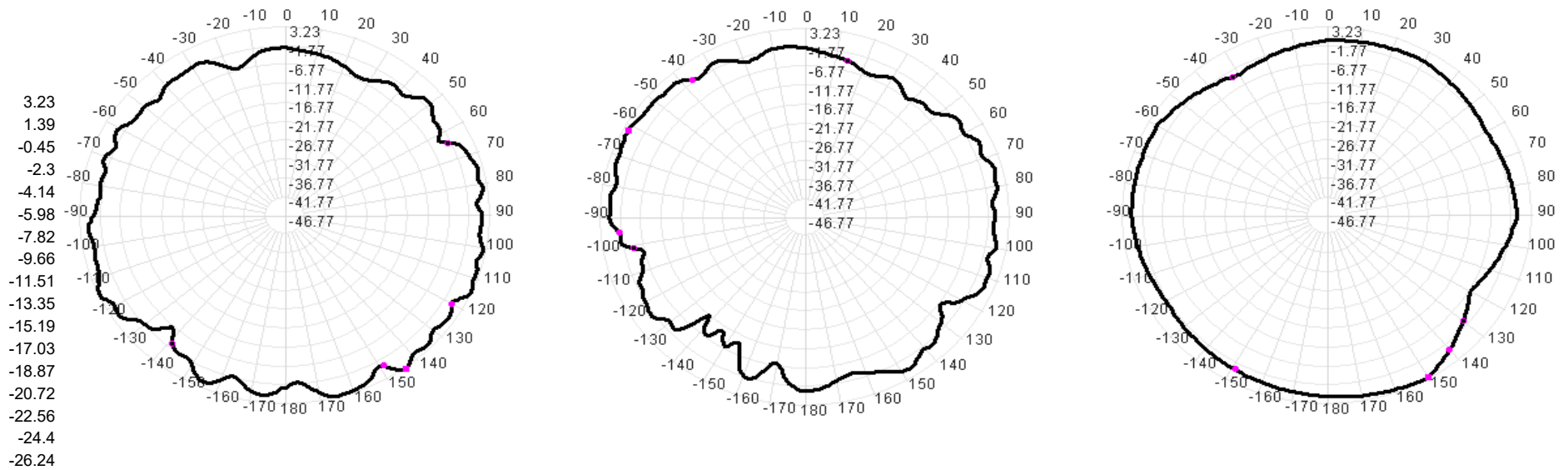
5200.0MHz Total(E2-YZ), Max= 2.25dBi



Total(H-XY), Max= 1.63dBi, CirD=5.17

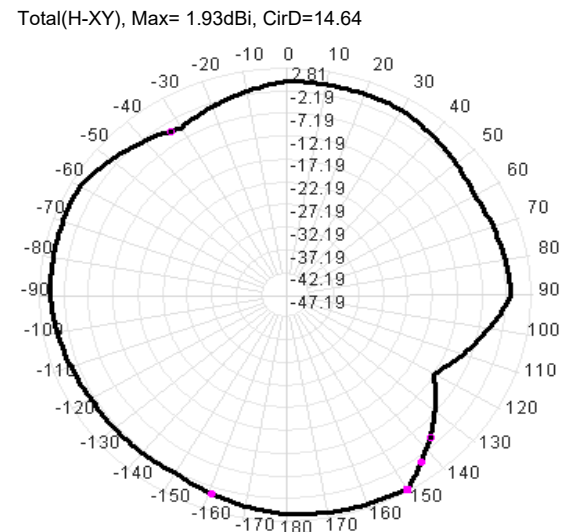
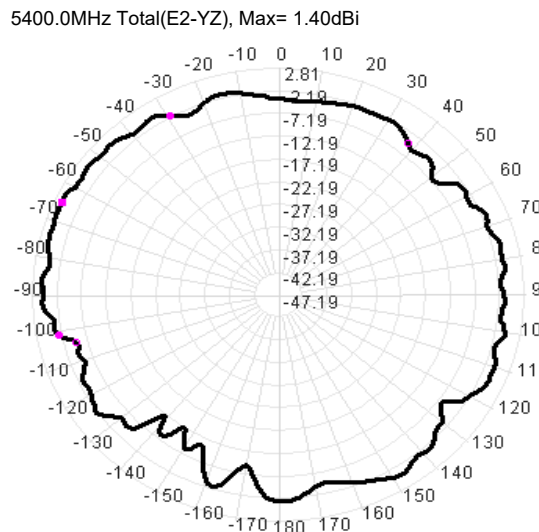
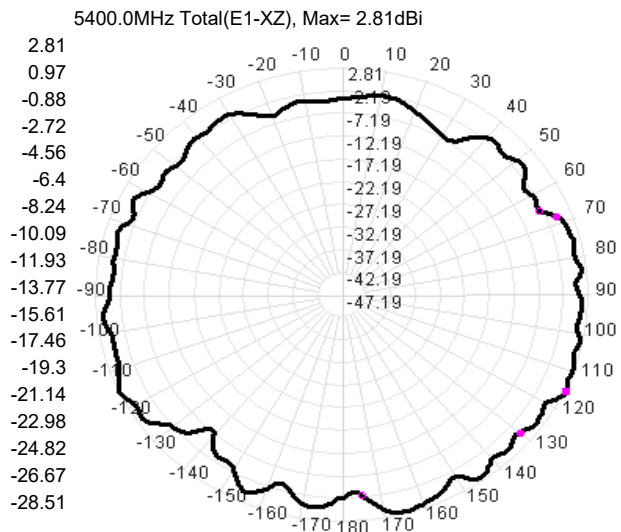


Radiation patterns—2D(5.8G#3)

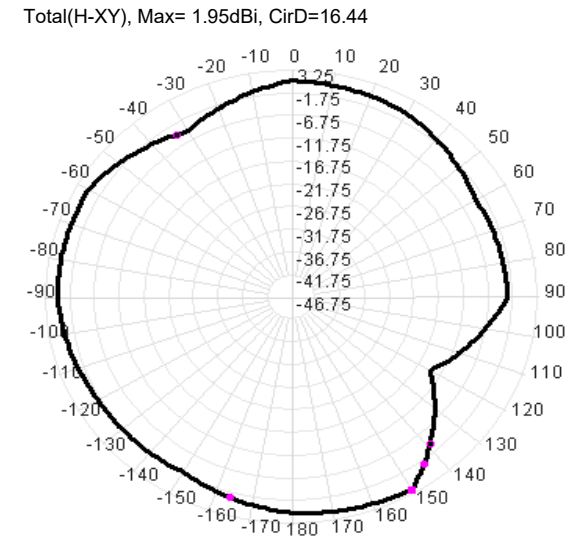
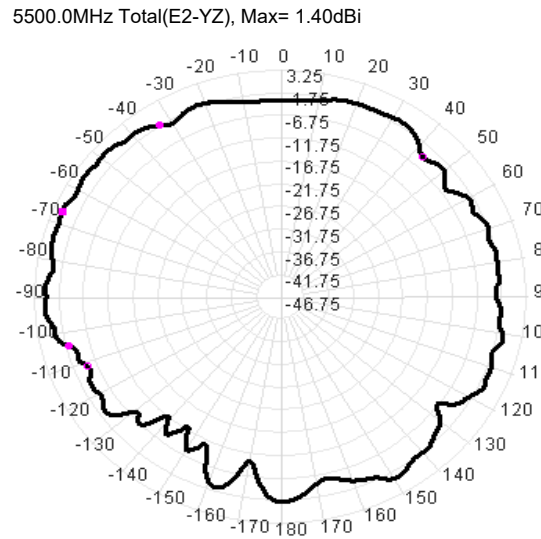
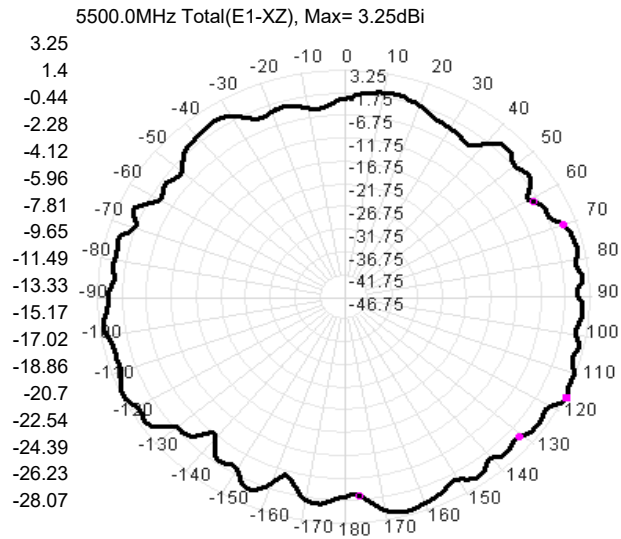


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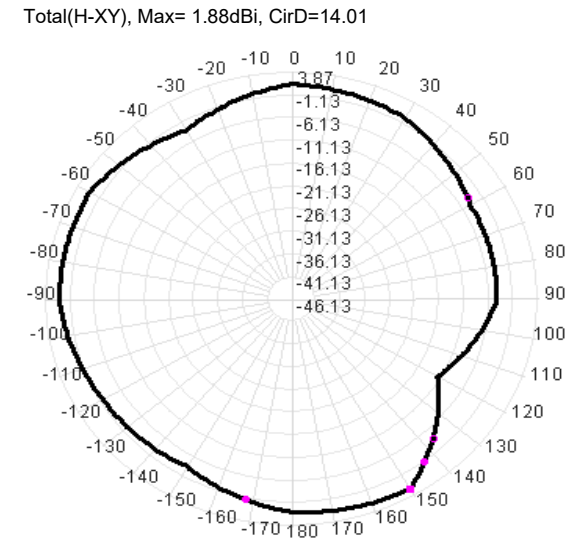
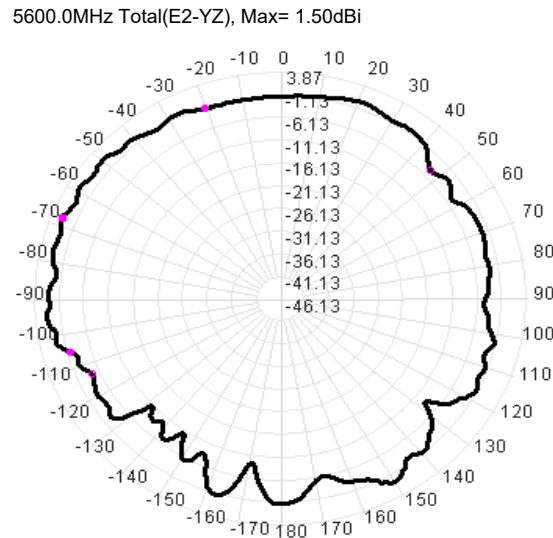
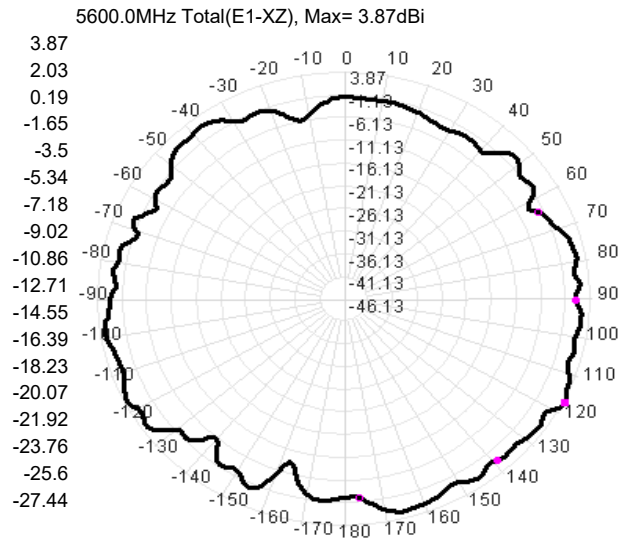
Radiation patterns—2D(5.8G#4)



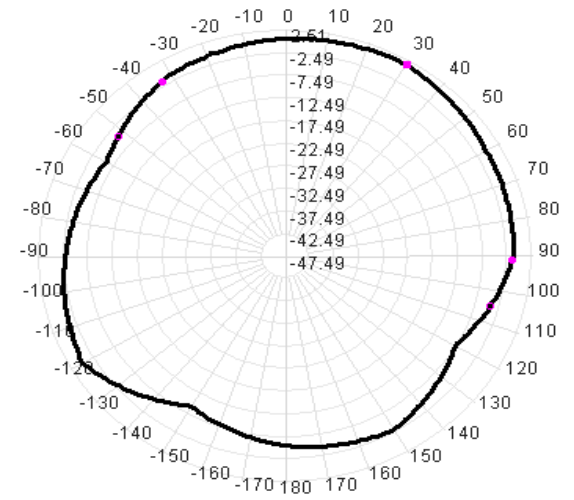
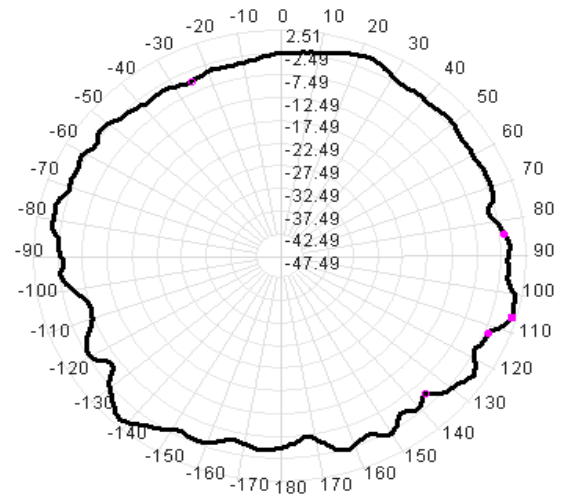
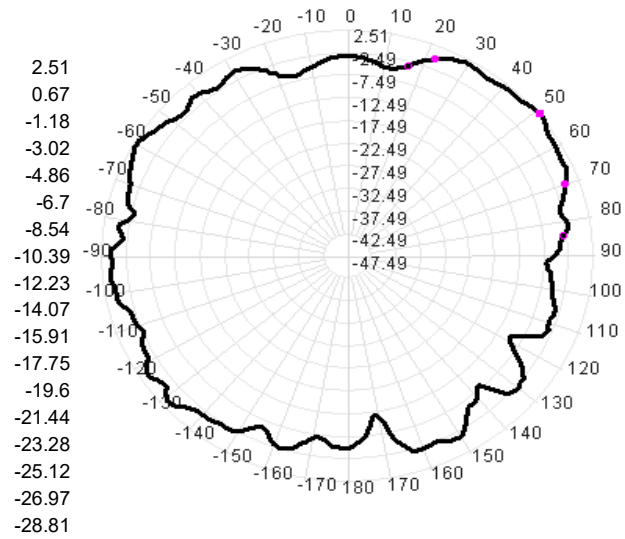
Radiation patterns—2D(5.8G#5)



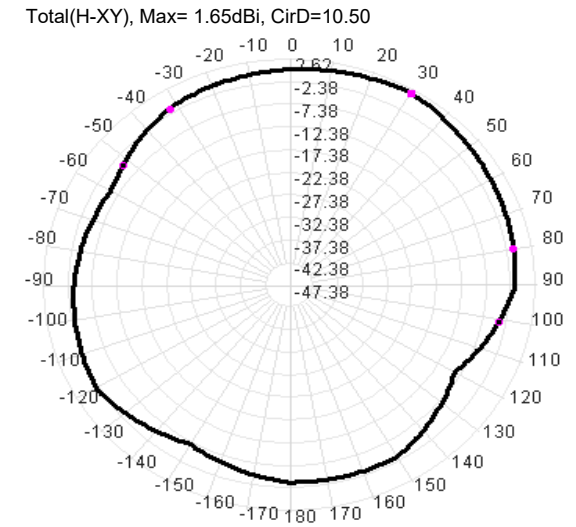
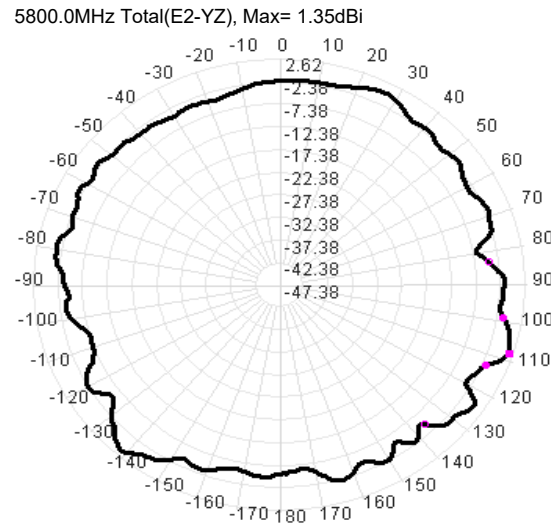
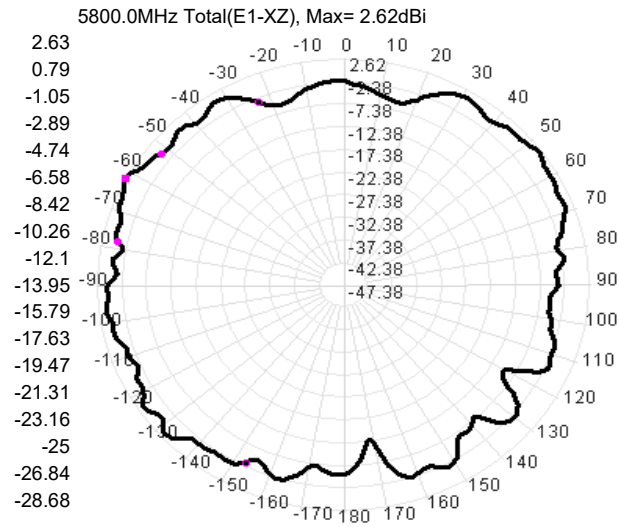
Radiation patterns—2D(5.8G#6)



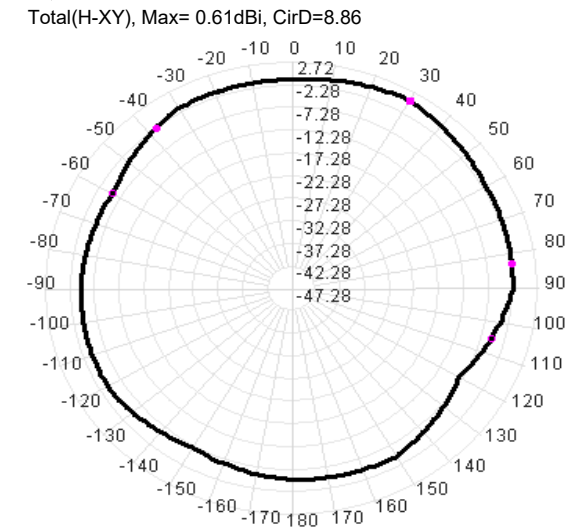
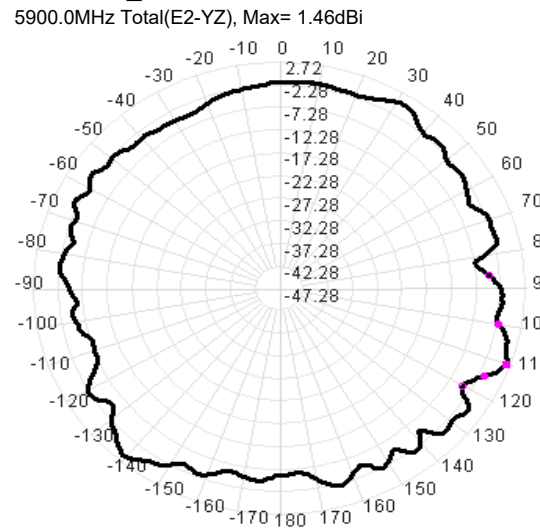
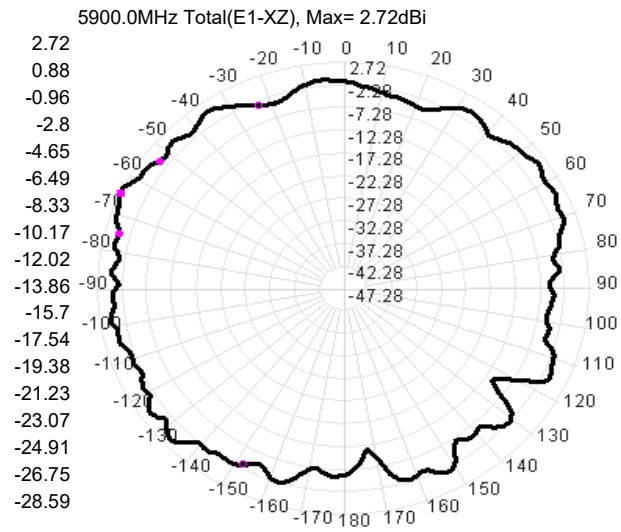
Radiation patterns—2D(5.8G#7)



Radiation patterns—2D(5.8G#8)

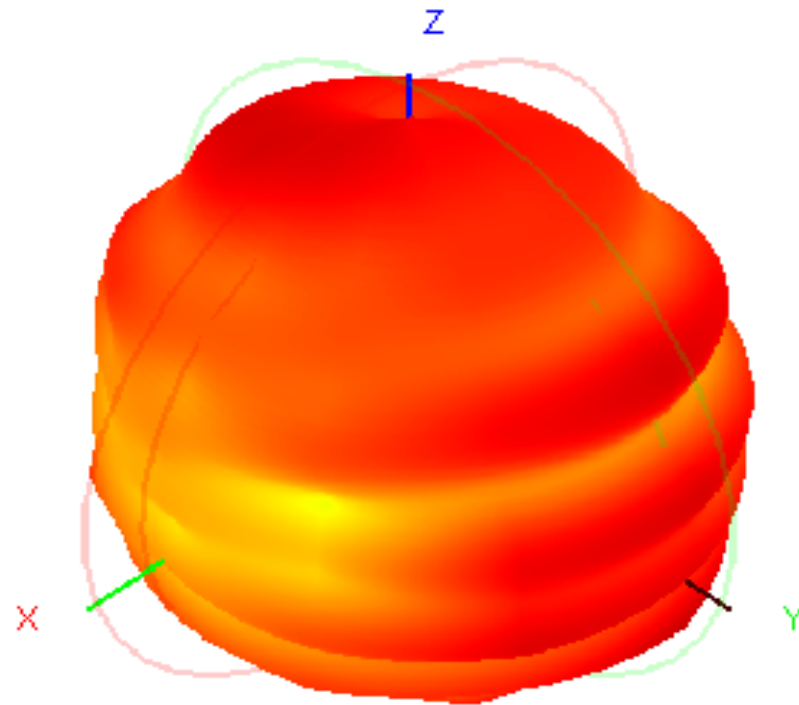


Radiation patterns—2D(5.8G#9)

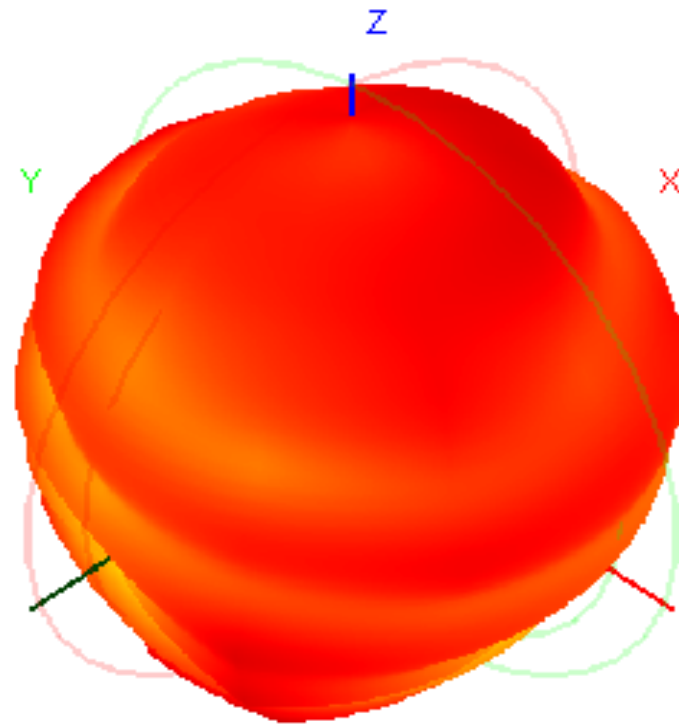


Radiation patterns—3D(2.4G#1)

2412.0MHz H+V, Eff: 78.6%

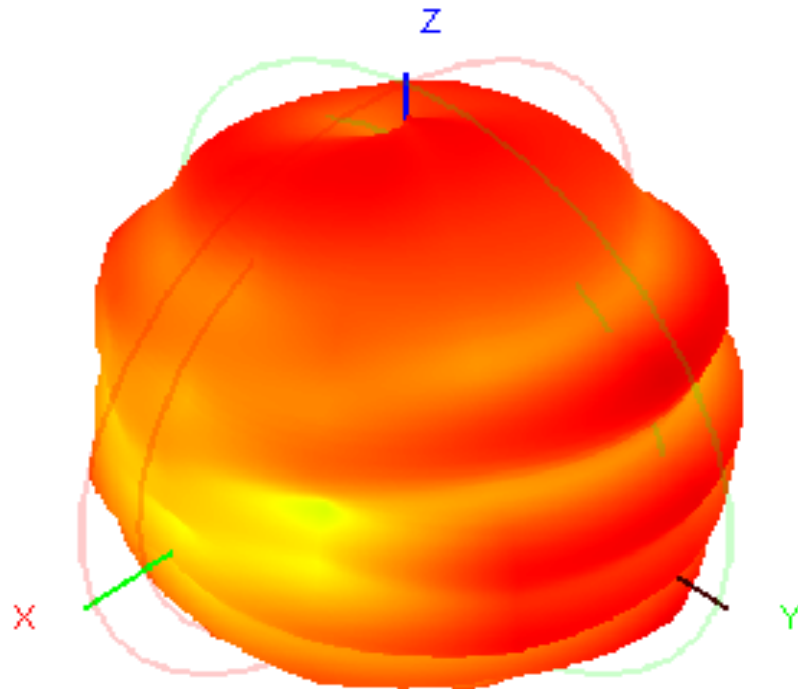


Back View

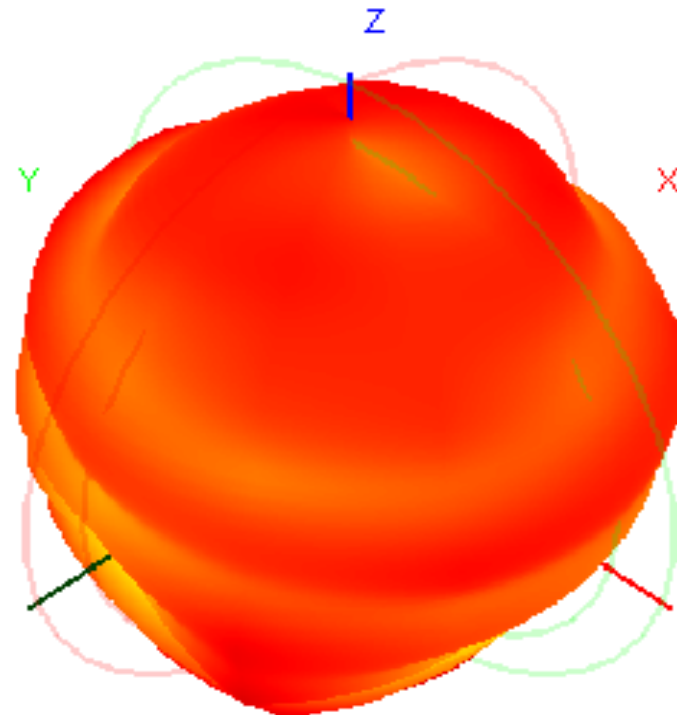


Radiation patterns—3D(2.4G#2)

2437.0MHz H+V, Eff: 79.4%

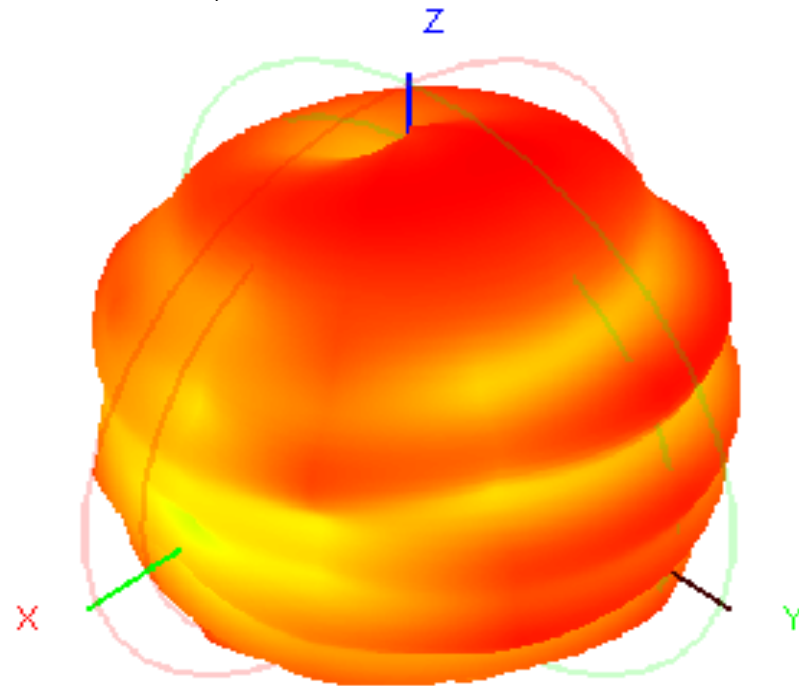


Back View

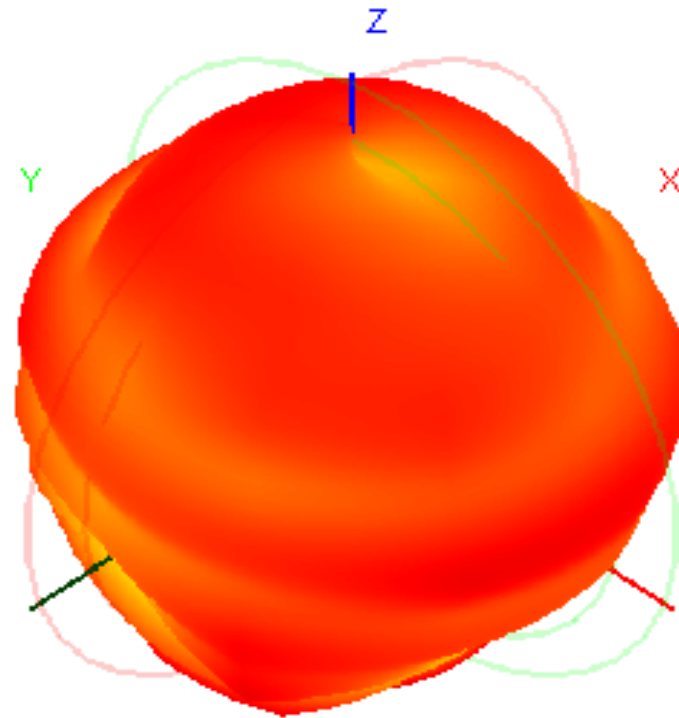


Radiation patterns—3D(2.4G#3)

2462.0MHz H+V, Eff: 78.6%

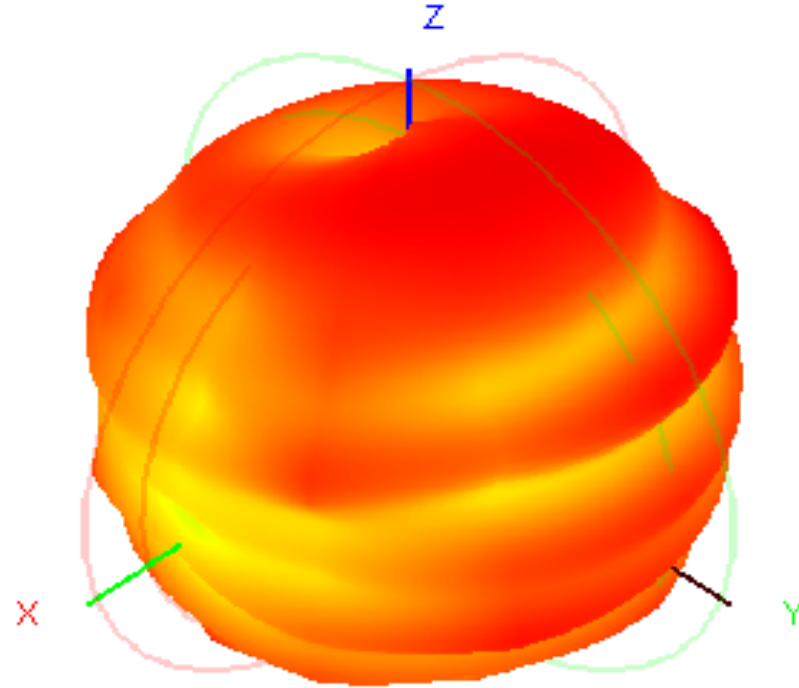


Back View

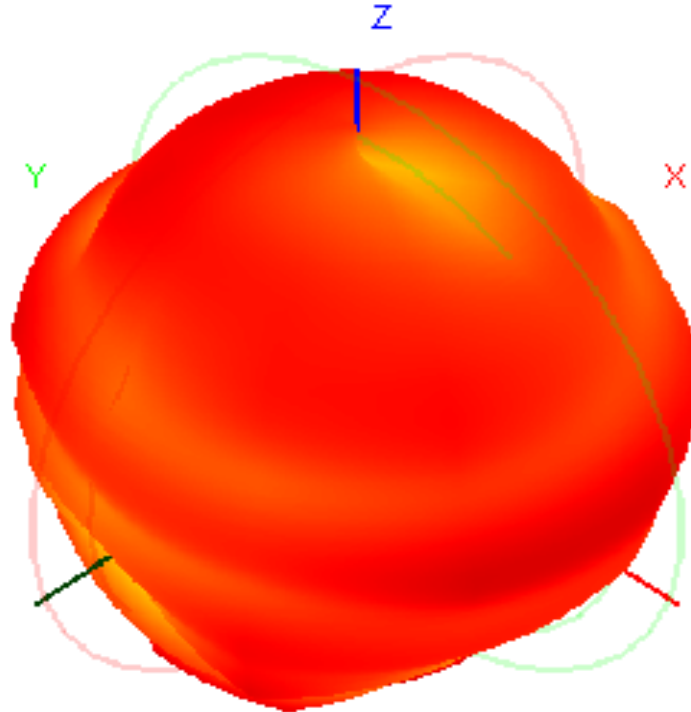


Radiation patterns—3D(2.4G#4)

2472.0MHz H+V, Eff: 77.4%

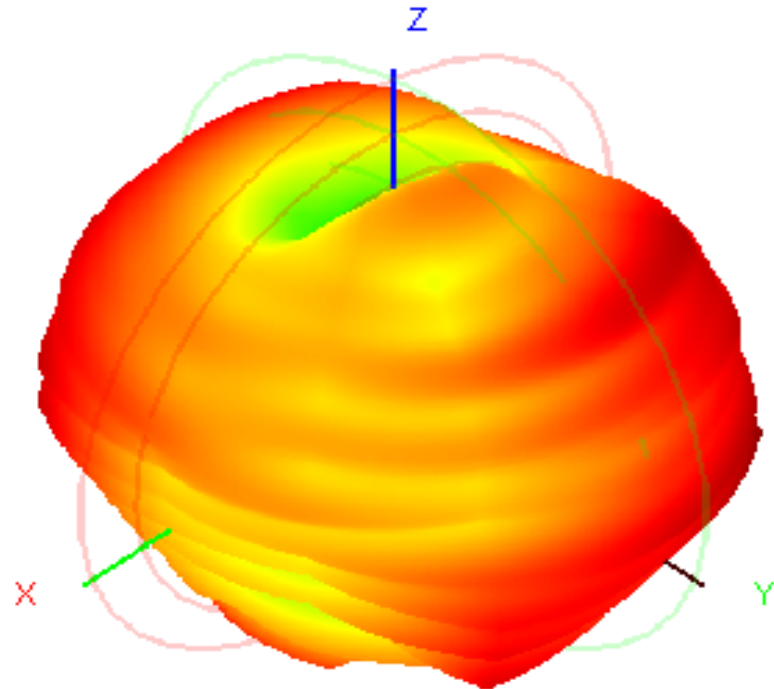


Back View

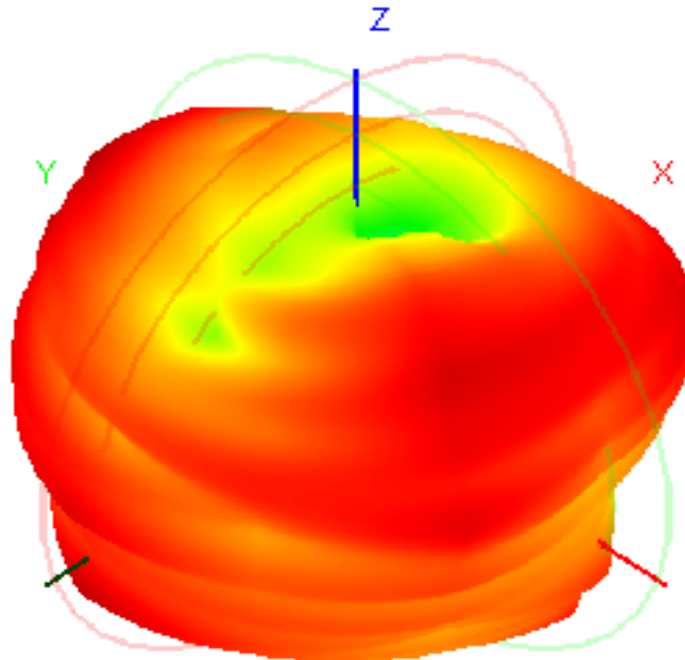


Radiation patterns—3D(5.8G#1)

5100.0MHz H+V, Eff: 91.2%



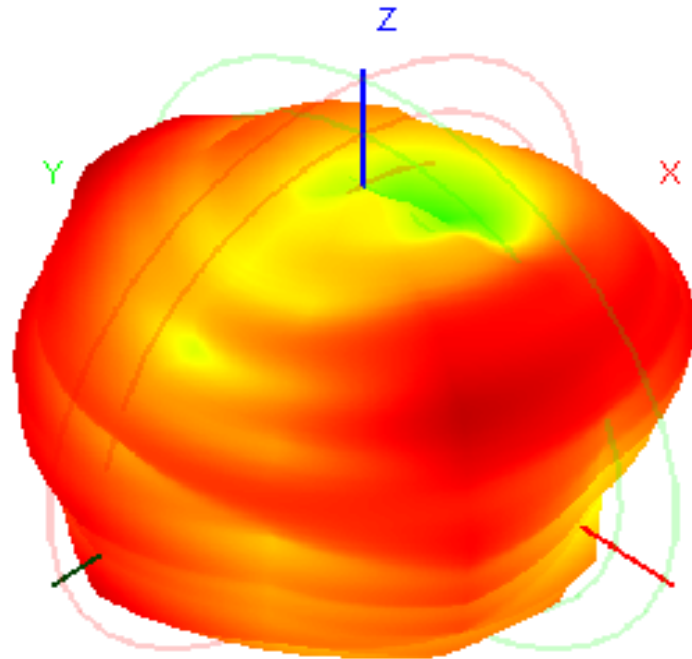
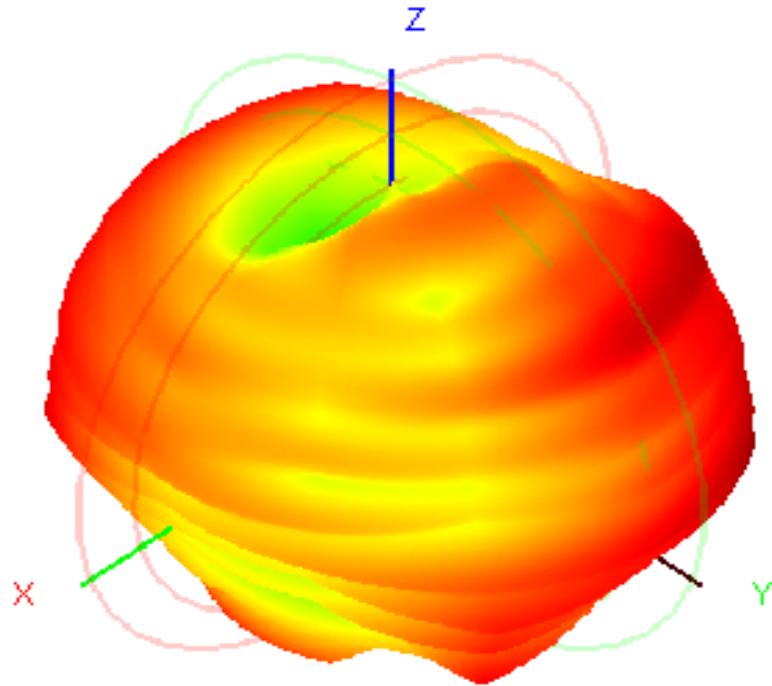
Back View



Radiation patterns—3D(5.8G#2)

5200.0MHz H+V, Eff: 77.1%

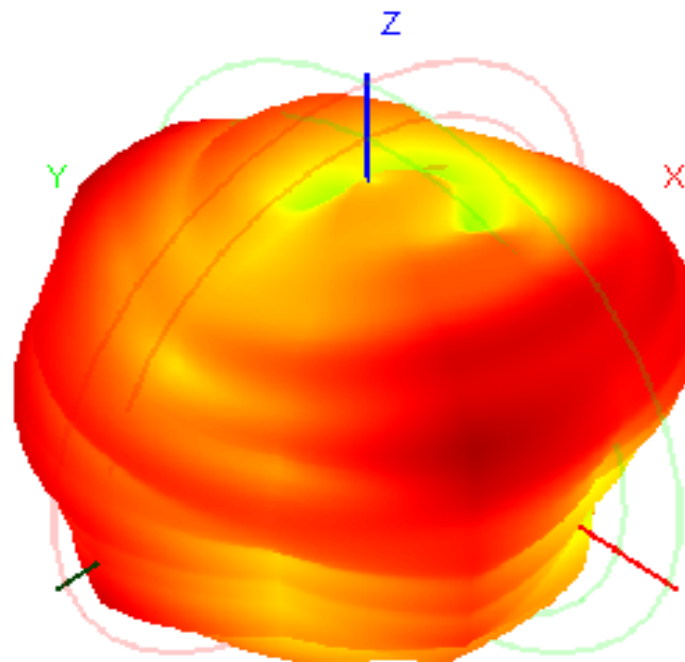
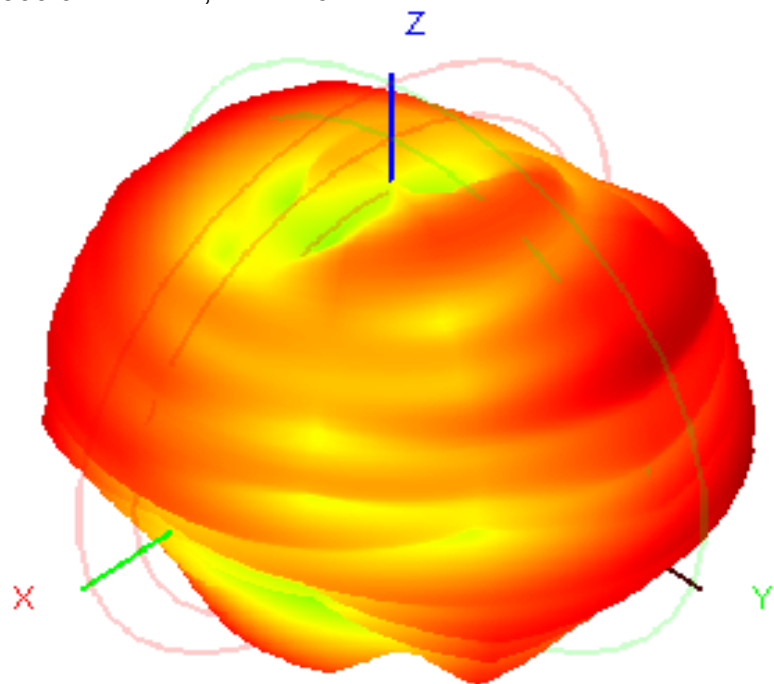
Back View



Radiation patterns—3D(5.8G#3)

5300.0MHz H+V, Eff: 74.6%

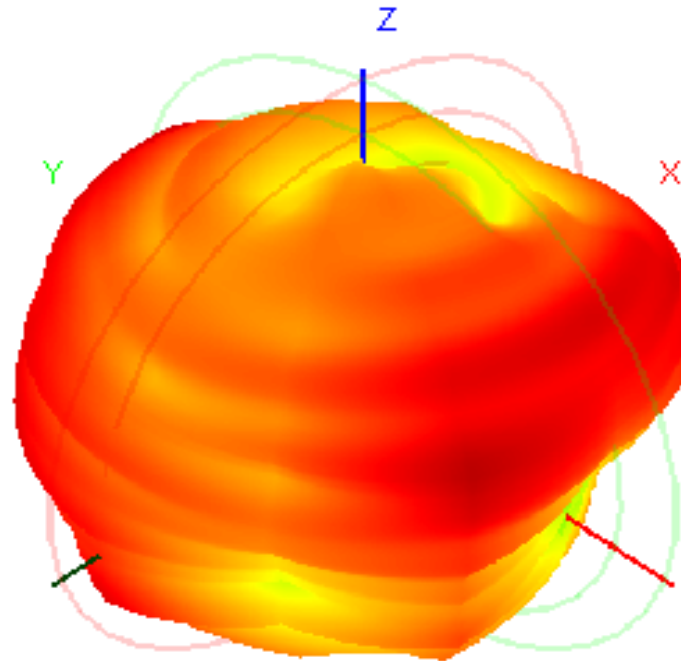
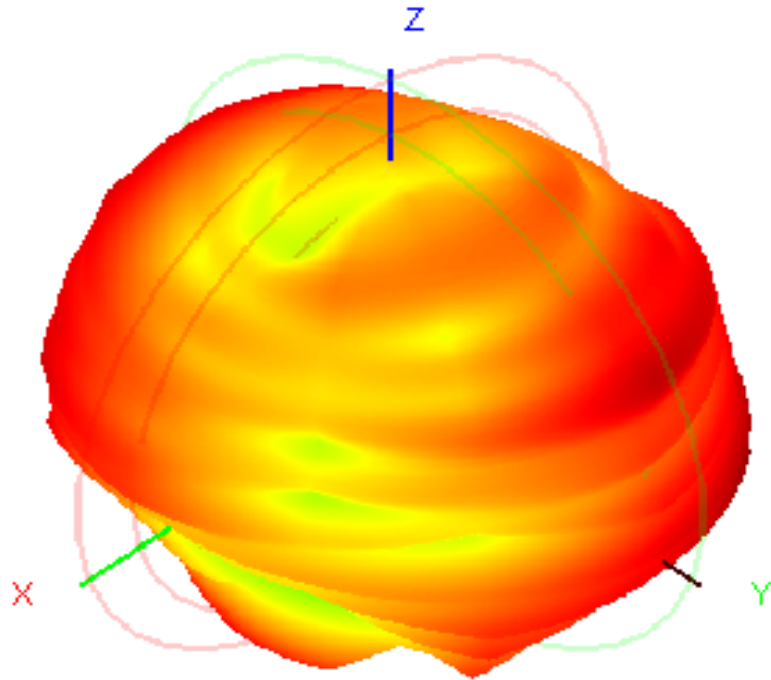
Back View



Radiation patterns—3D(5.8G#4)

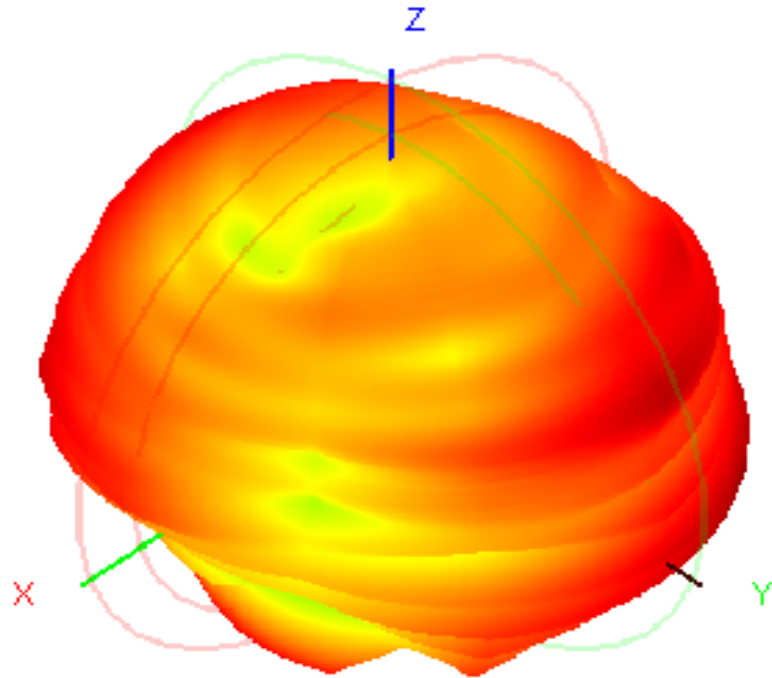
5400.0MHz H+V, Eff: 59.9%

Back View

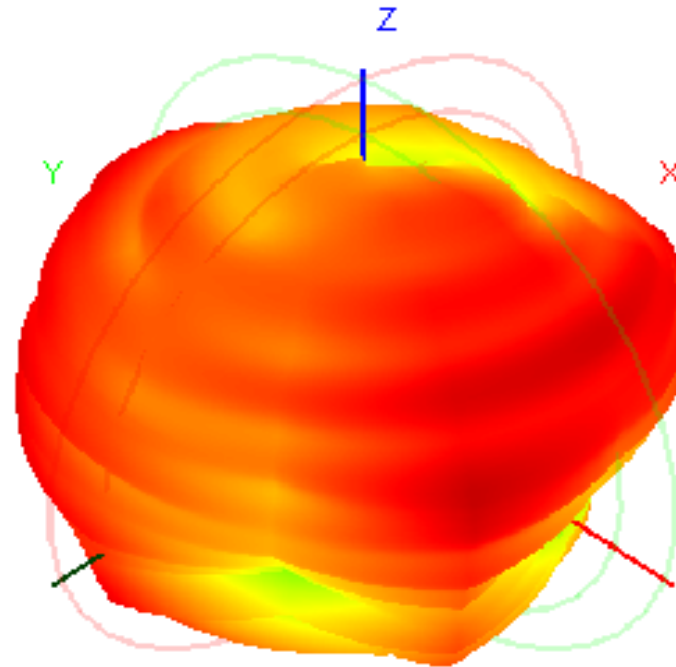


Radiation patterns—3D(5.8G#5)

5500.0MHz H+V, Eff: 67.9%



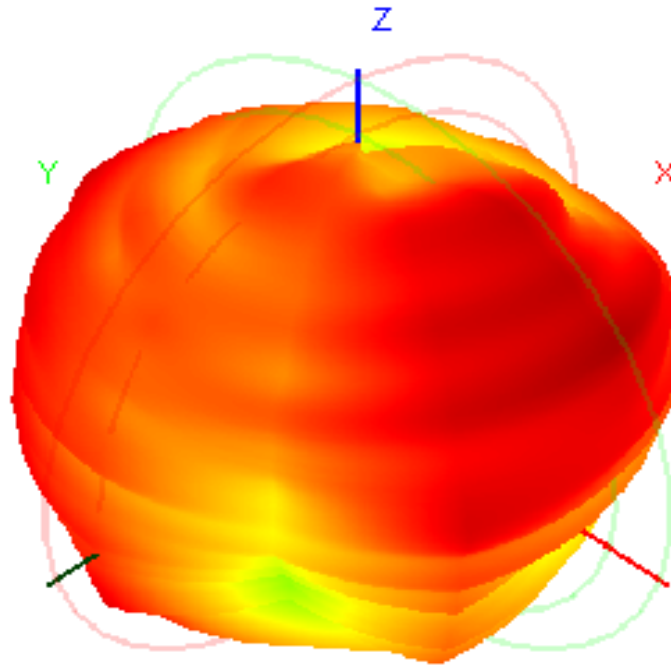
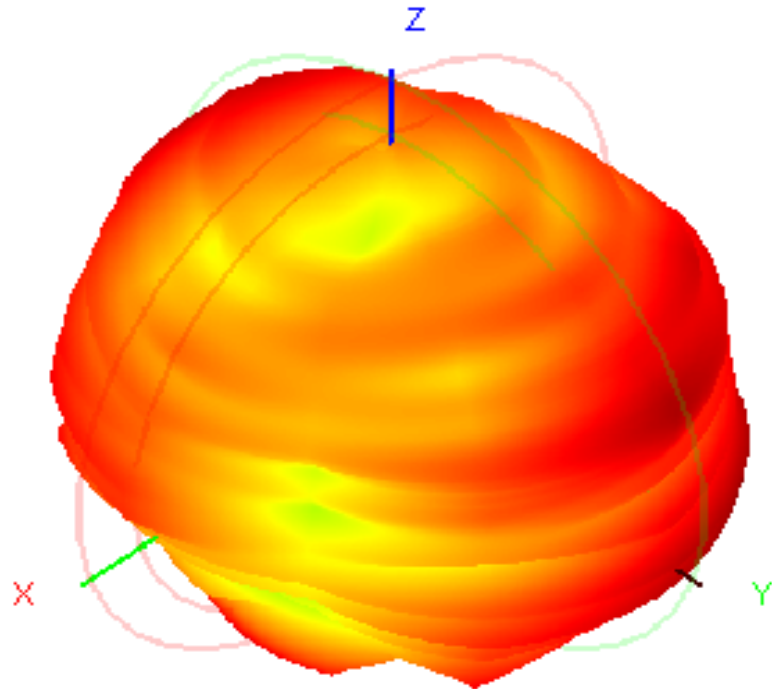
Back View



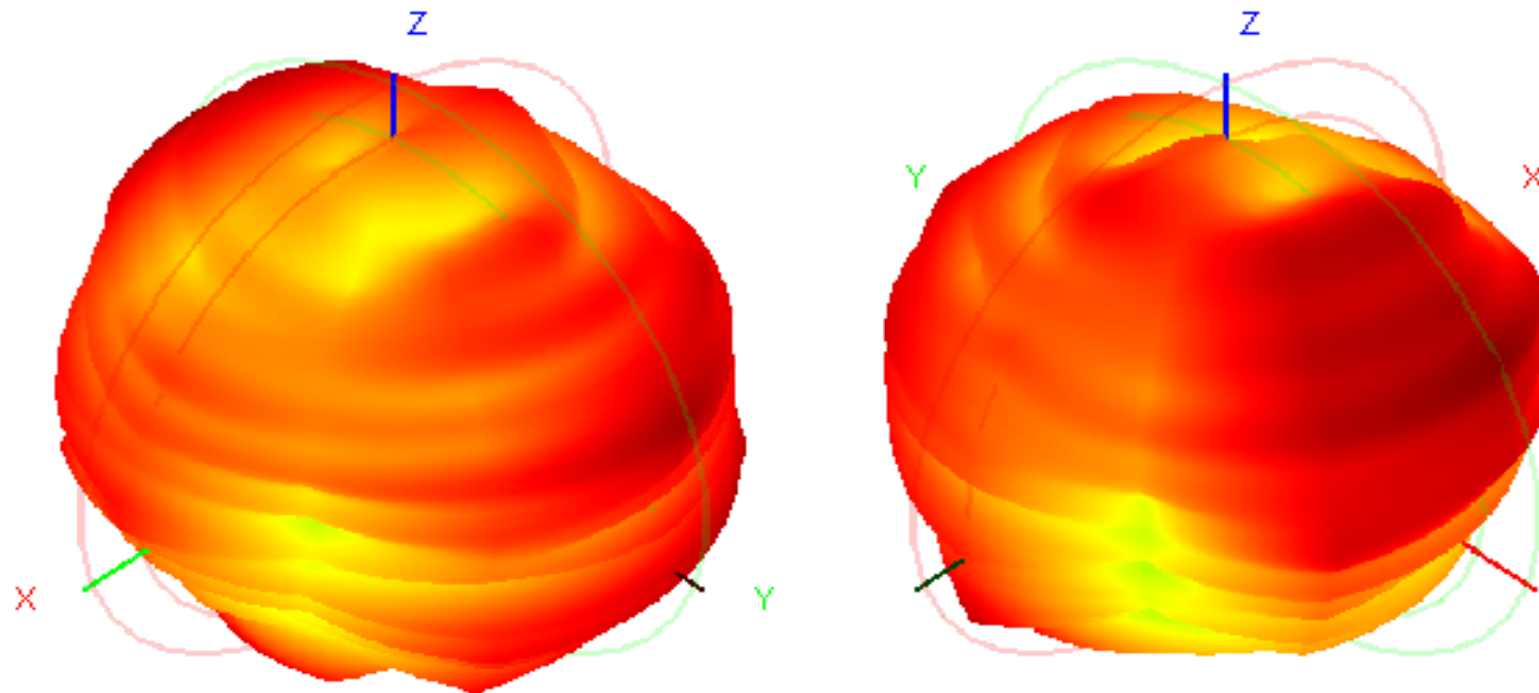
Radiation patterns—3D(5.8G#6)

5600.0MHz H+V, Eff: 59.6%

Back View



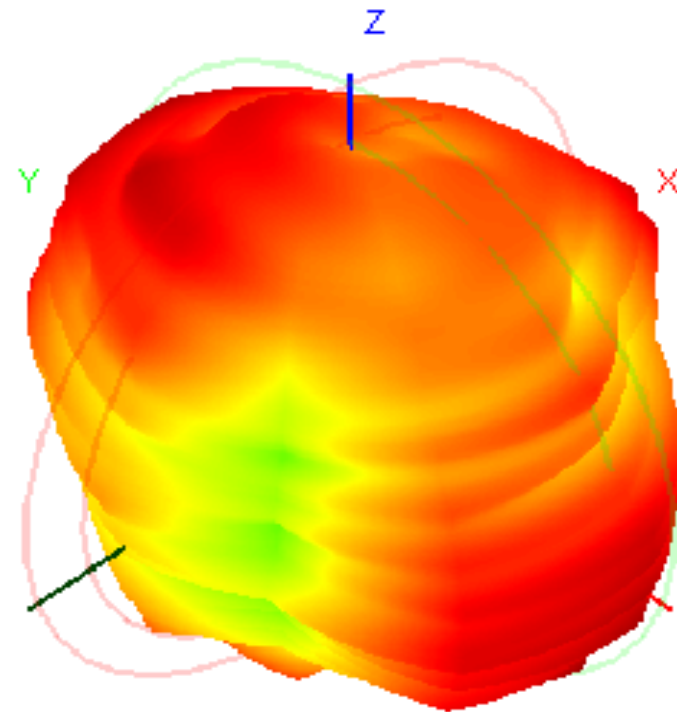
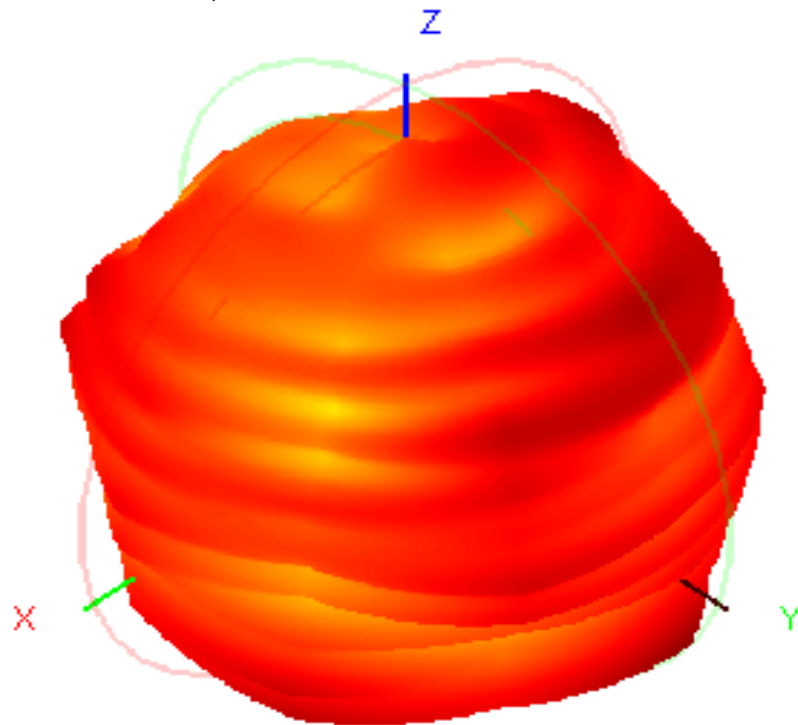
Radiation patterns—3D(5.8G#7)



Radiation patterns—3D(5.8G#8)

5800.0MHz H+V, Eff: 72.5%

Back View



Radiation patterns—3D(5.8G#9)

5900.0MHz H+V, Eff: 78.5%

Back View

