

Shenzhen Qianmu Communication Technology Co., Ltd.

Material Acknowledgement

Customer connection	Shenzhen Julide Electronics Co., Ltd.			
File No.		Version number	V1.0	
Part number	108000010DC-TFP	Part Name Component Name	WiFi antenna	
Item Manufacturer Name Supplier Name	Shenzhen Qianmu Communication Technology Co., Ltd.	Model	TFP	
Supplier Part No.	QM-TFP-WiFi			
Specification Description	WiFi antenna: FPC/black/character WiFi			
Date of sample delivery	2024-03-06			
Quantity of sealed samples Sample Qty	3		yc040n-12-v1	
Type of Approval	<input checked="" type="checkbox"/> New Material/New Component <input type="checkbox"/> New Supplier/New Supplier <input type="checkbox"/> Update Approval sheet		<input checked="" type="checkbox"/> universal component <input type="checkbox"/> Proprietary component (applicable product model: _)	
No. S/N	Inspection Item	Confirm the result (tick "✓") Test Result	Checked by Operator	IQC inspection items (tick ✓) are Inspection item of IQC.
1	Exterior dimensions	<input type="checkbox"/> pass <input type="checkbox"/> fail		<input type="checkbox"/>
2	Parameter	<input type="checkbox"/> pass <input type="checkbox"/> fail		<input type="checkbox"/>
3	Show	<input type="checkbox"/> pass <input type="checkbox"/> fail		<input type="checkbox"/>
4		<input type="checkbox"/> pass <input type="checkbox"/> fail		<input type="checkbox"/>
5		<input type="checkbox"/> pass <input type="checkbox"/> fail		<input type="checkbox"/>
Approve Result:				
<input type="checkbox"/> Qualified/Qualify <input checked="" type="checkbox"/> Small batch trial (can use in pre-pilot run sample production) _ _ _ _ _ PCs				
<input type="checkbox"/> Unqualified/Unqualified <input type="checkbox"/> Resend sample/re-send sample <input type="checkbox"/> No more sample no need to re-send sample				
Remark/Remark:				
Made/Prepared By:	Audit/Checked By:	Approved/Approved By:		
Distribution department/: <input checked="" type="checkbox"/> Purchase _ 1 _ copy <input checked="" type="checkbox"/> Quality/_ 1 _ copy <input checked="" type="checkbox"/> Supplier/_ 1 _ copy				

Antenna Acknowledgement

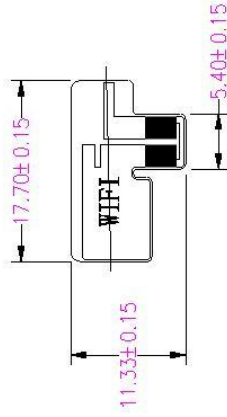
Applicable model	TFP				
Customer	Shenzhen Julide Electronics Co., Ltd.				
Specification description					
	Product content	Specification	Customer material code		
Specification description	WiFi antenna	FPC/Black/Character WiFi	108000010DC-TFP		
Change of resume					
Serial number	Date	Version	Brief description of the changes		
1	2024-03-06	V1.0	New project		
2					
3					
Supplier sample confirmation					
Research and development	Structure	Audit	Judgement		
			PASS FAIL		
Customer sample confirmation					
Electron	Structure	Project	Procurement	Quality	Audit
Reasons for rejection or other precautions:					

1. Antenna placement



2. Structural drawings

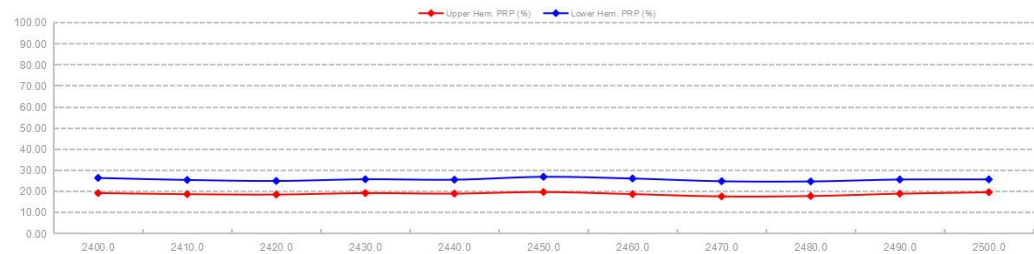
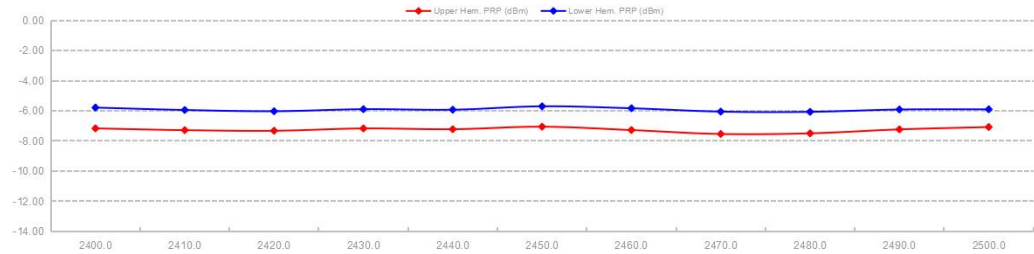
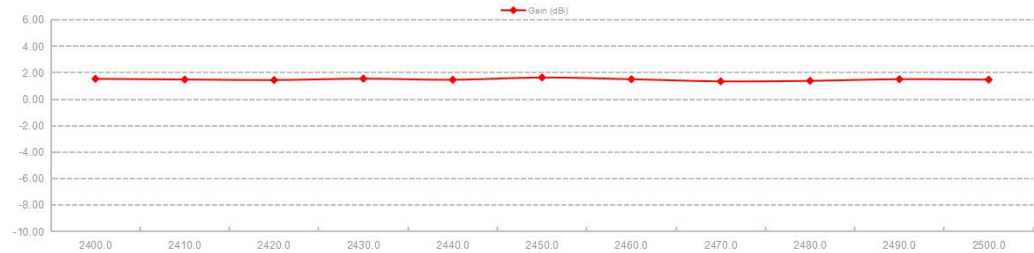
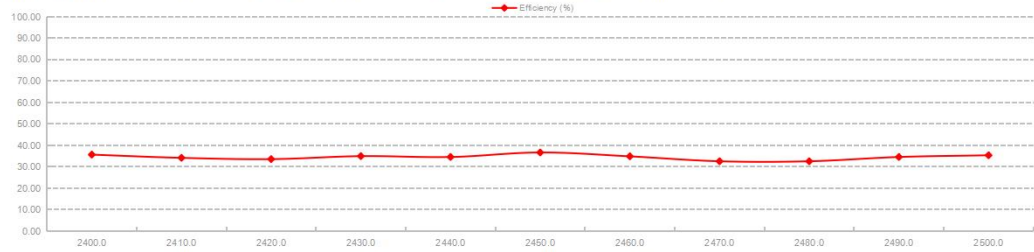
A	B	C	D	1	2	3	4	5	6	7	8	
A	B	C	D	1	2	3	4	5	6	7	8	
NO.	Accessory name	Specifications	consumption	Material Science	DATE	DESIGN	DRAWN	CHECKED	DATE	DESIGN	DRAWN	CHECKED
1	4G antenna	Half on half material, 9471 backing adhesive, black oil	1	PI substrate + electrolytic copper.	2024/2/21	KING	KING	KING	2024/2/21	KING	KING	KING
					algorithm	name	number	number	RC	RC	RC	RC
					0~10	±0.10	∅0.03	∅0.03	∅0.03	∅0.03	∅0.03	∅0.03
					10~20	±0.12	∅0.03	∅0.03	∅0.03	∅0.03	∅0.03	∅0.03
					20~40	±0.15	∅0.03	∅0.03	∅0.03	∅0.03	∅0.03	∅0.03
					40~50	±0.20	∅0.03	∅0.03	∅0.03	∅0.03	∅0.03	∅0.03
					POSITION	POSITION	POSITION	POSITION	POSITION	POSITION	POSITION	POSITION
					1	2	3	4	5	6	7	8
					1	2	3	4	5	6	7	8

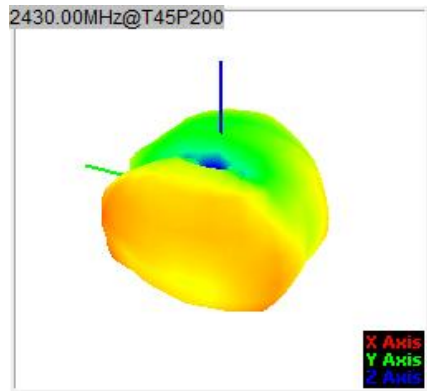
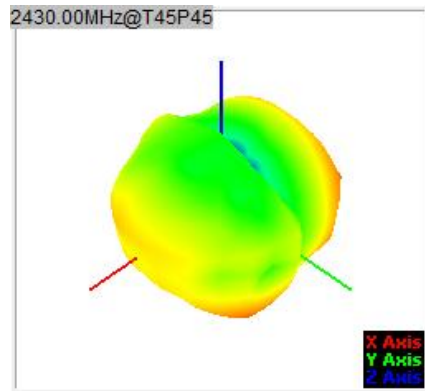
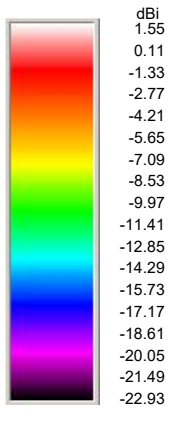
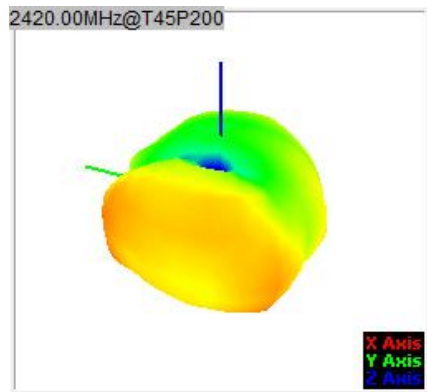
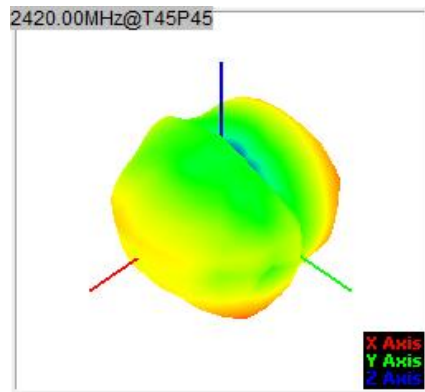
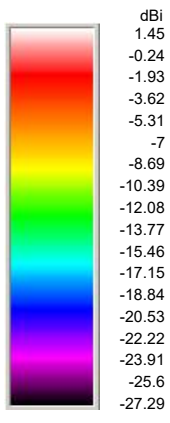
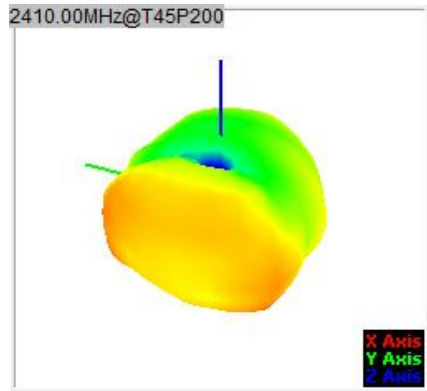
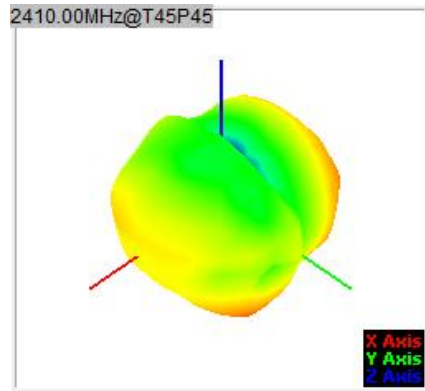
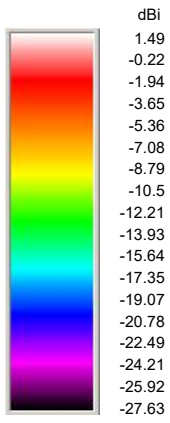
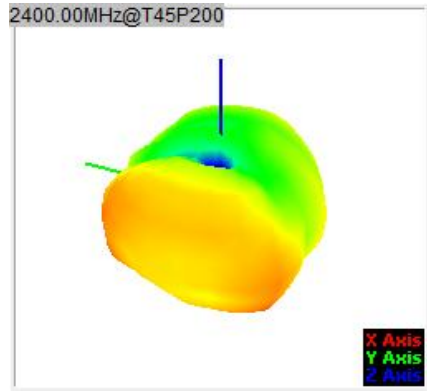
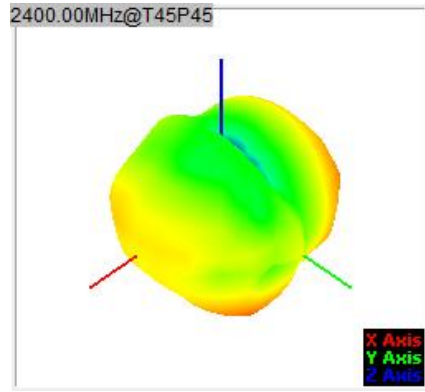
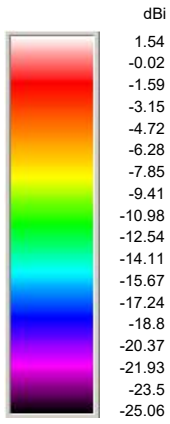


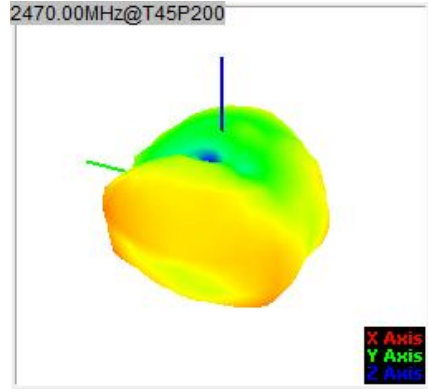
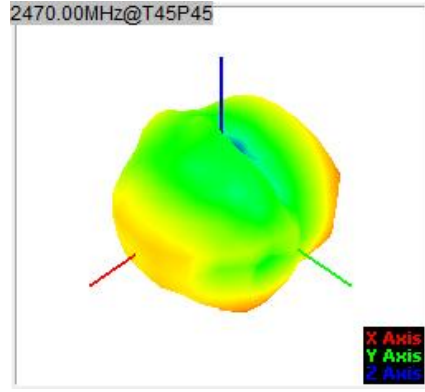
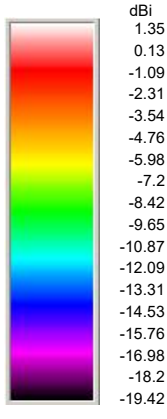
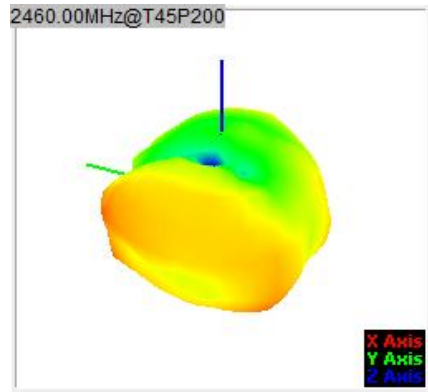
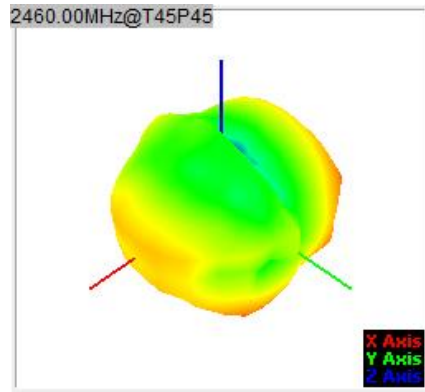
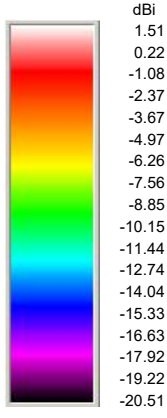
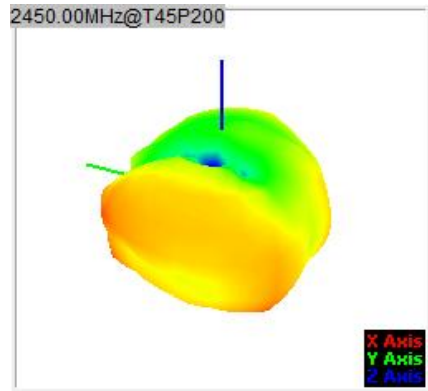
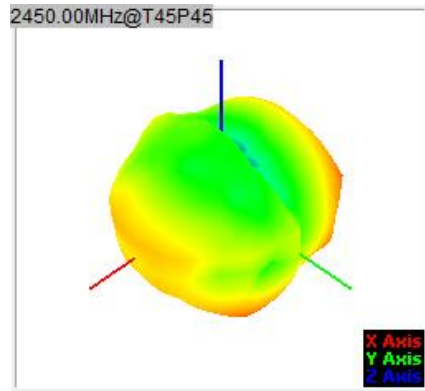
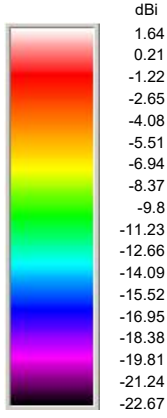
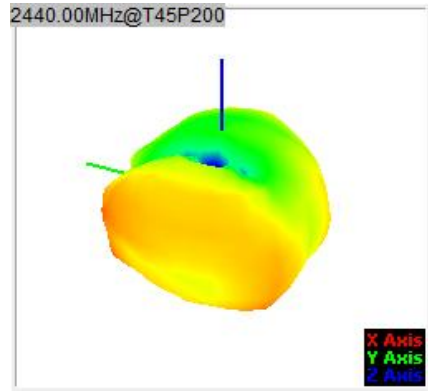
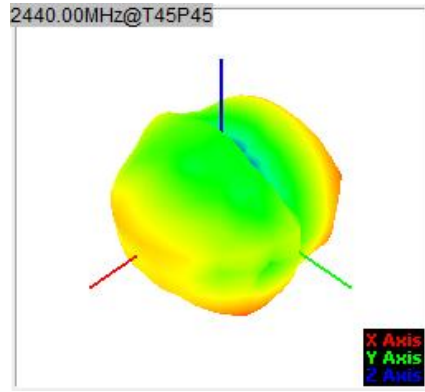
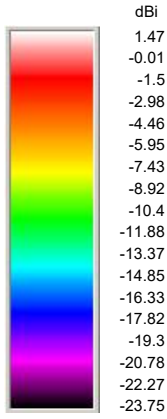
4. Salt spray test report

Customer name	Cohesive force gets electrons		Production batch	A1			
Product name	TFP		Number of tests	5PCS			
Product part number	/		Test standard	GB2423.17			
Date of test	2024/03/03		Material of goods	FPC			
Test time: 48H							
Test item	Standard of requirements	Actual value	Judgement	Test item	Standard of requirements	Actual value	Judgement
Test instrument specifications	KD-60	KD-60	OK	Test time	48H	48H	OK
Type of salt spray test	NSS neutral	NSS neutral	OK	Salt spray chamber temperature	35°C	35°C	OK
PH of salt water	6.5-7.2	6.9	OK	Salt spray deposition (H. 80C)	1-2ml	1.7ml	OK
Spray mode	Continuous spray	Continuous spray	OK	Material of goods	FPC	FPC	OK
Saline composition	5%/NaCL	5%/NaCL	OK	Compressed air pressure	1±0.1KG/CM²	1	OK
Saturation temperature	47°C	47°C	OK	Specimen placement angle	90°	90°	OK
Test observation time	Observe the phenomenon						
4H	No abnormality						
12H	No abnormality						
24H	No abnormality						
48H	No abnormality						
Judgment standard: according to the national standard 5944-86 rating method, it is qualified if it is above grade 9.							
Final judgment result	Qualified ✓			Unqualified			
Tester	Mo Xuan		Audit	/		Approval	Wang Bo
Note: Commonly used salt spray test methods are: NSS medium salt spray test, AASS acetic acid salt spray test, CASS copper acetic acid accelerated test.							
Version: A.0							

FETUKELI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-3.41	-3.55	-3.62	-3.47	-3.51	-3.31	-3.48	-3.72	-3.71	-3.51	-3.44
Peak EIRP (dBm)	1.54	1.49	1.45	1.55	1.47	1.64	1.51	1.35	1.39	1.51	1.48
Directivity (dBi)	-4.95	-5.04	-5.07	-5.02	-4.98	-4.95	-5.00	-5.07	-5.10	-5.02	-4.92
Efficiency (dB)	-3.41	-3.55	-3.62	-3.47	-3.51	-3.31	-3.48	-3.72	-3.71	-3.51	-3.44
Efficiency (%)	35.60	34.10	33.50	34.90	34.50	36.60	34.80	32.50	32.50	34.50	35.30
Gain (dB)	1.54	1.49	1.45	1.55	1.47	1.64	1.51	1.35	1.39	1.51	1.48
NHPRP ±PI/4 (dBm)	-4.28	-4.43	-4.51	-4.36	-4.40	-4.19	-4.36	-4.61	-4.61	-4.42	-4.35
NHPRP ±PI/6 (dBm)	-5.66	-5.82	-5.89	-5.73	-5.76	-5.55	-5.72	-5.97	-5.97	-5.77	-5.69
NHPRP ±PI/8 (dBm)	-6.81	-6.96	-7.02	-6.86	-6.89	-6.67	-6.83	-7.08	-7.07	-6.85	-6.76
Upper Hem. PRP (dBm)	-7.17	-7.28	-7.32	-7.17	-7.22	-7.05	-7.28	-7.54	-7.49	-7.23	-7.08
Lower Hem. PRP (dBm)	-5.79	-5.94	-6.03	-5.89	-5.92	-5.70	-5.83	-6.05	-6.07	-5.91	-5.90
Upper Hem. PRP (%)	19.21	18.69	18.52	19.19	18.96	19.70	18.72	17.63	17.81	18.91	19.61
Lower Hem. PRP (%)	26.39	25.45	24.96	25.76	25.56	26.92	26.12	24.82	24.74	25.63	25.70

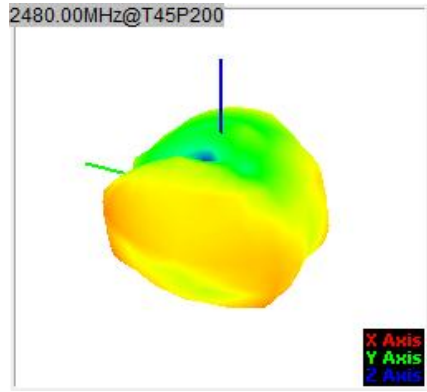
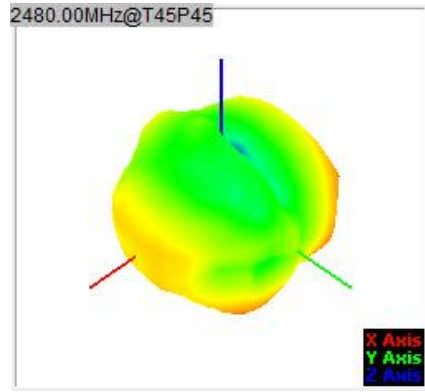




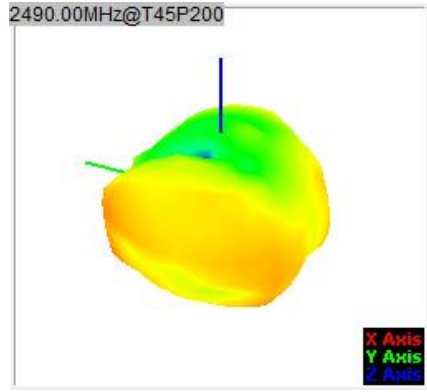
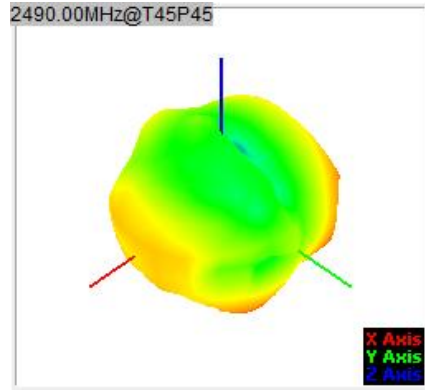




dBi
 1.39
 0.18
 -1.03
 -2.23
 -3.44
 -4.64
 -5.85
 -7.05
 -8.26
 -9.46
 -10.67
 -11.88
 -13.08
 -14.29
 -15.49
 -16.7
 -17.9
 -19.11



dBi
 1.51
 0.31
 -0.89
 -2.09
 -3.28
 -4.48
 -5.68
 -6.88
 -8.08
 -9.28
 -10.48
 -11.68
 -12.88
 -14.08
 -15.28
 -16.48
 -17.68
 -18.87



dBi
 1.48
 0.29
 -0.9
 -2.08
 -3.27
 -4.46
 -5.64
 -6.83
 -8.02
 -9.21
 -10.39
 -11.58
 -12.77
 -13.96
 -15.14
 -16.33
 -17.52
 -18.71

