



Shenzhen Deshiqin Technology Co., Ltd

Antenna Specification

Shenzhen Deshiqin Technology Co., Ltd

Room 403, West Wing, Building 2, Pingshan Private Enterprise Sci-Tech Park, No. 65 Lishan Road, Pingshan Community, Taoyuan Subdistrict, Nanshan District, Shenzhen, Guangdong, China



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1. Project Overview:

Customer Name	翼龙	Entry Name	Y9		
Machine type	mobile phone			Version	V1.0
Frequency band information			Antenna type	Matching changes	
Main antenna	800MHZ-2700MHZ		Internal Antenna	NO	
Sub antenna	GPS/WIFI/BT			NO	
DIV antenna	800MHZ-2700MHZ			NO	
Antenna material	FPC				

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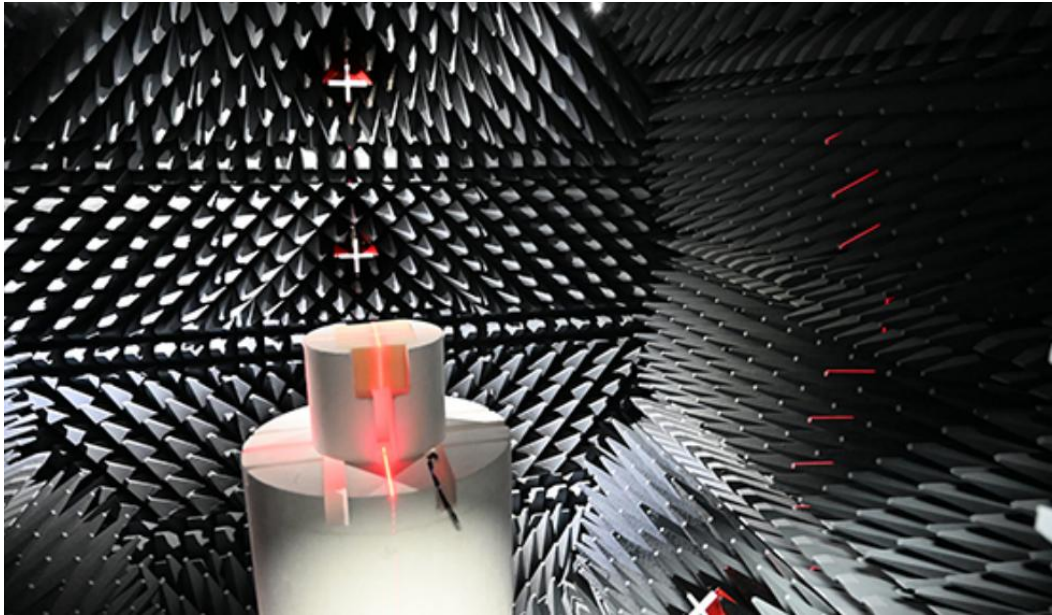


2. Main testing equipment

1. ETS Chamber $5 \times 3 \times 3(\text{m})$ (3D Laboratory) / $3 \times 3 \times 3(\text{m})$ (3D Laboratory)/1800(3D Laboratory) , Network Analyzer
2. Network analyzer-8960/LTE CMW500/8820/CMW500/MT8000A Support 2G、 3G、 4G、 5G Comprehensive testing instruments, Also supports 2.4/5.8WIFI6/NB.

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3. Antenna data

Model: Y9		Antenna implementation method : FPC			unit: dBm
signal	GSM850	GSM900	DCS1800	PCS1900	

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path	CH128	CH192	CH251	CH1	CH62	CH124	CH512	CH698	CH885	CH512	CH661	CH810
TRP	25.1	25.2	25.47	26.64	26.33	25.36	24.61	24.4	24.11	24.32	24.12	23.24
TIS			-101.37			-100.19			-101.62			-101.26
signal	WCDMA-2100			WCDMA-1900			WCDMA-1700			WCDMA-900		
path	CH10562	CH10700	CH10838	CH9938	CH9662	CH9800	CH1537	CH1638	CH1738	CH2937	CH3013	CH3083
TRP	16.7	16.54	16.72	16.59	16.52	16.43	18.16	17.6	17.4	16.88	16.84	16.39
TIS			-103.29			-100.28			-102.03			-100.56
signal	WCDMA-850											
path	CH4357	CH4408	CH4458									
TRP	17.31	17.52	17.01									
TIS			-101.25									
signal path	LTE-FDD-B1			LTE-FDD-B2			LTE-FDD-B3			LTE-FDD-B4		
	CH18050	CH18300	CH18550	CH18650	CH18900	CH19150	CH19250	CH19575	CH19900	CH20000	CH20175	CH20350

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TRP	16.83	16.54	16.51	17.9	16.5	16.39	18.34	18.41	18.2	18.34	18.3	18.07
TIS			-92.98			-88.08			-90.56			-92.38
signal path	LTE-FDD-B5			LTE-FDD-B7			LTE-FDD-B8			LTE-FDD-B12		
	CH20450	CH20525	CH20600	CH20800	CH21100	CH21400	CH21500	CH21625	CH21750	CH23060	CH23095	CH23130
TRP	17.56	17.72	17.16	16.32	16.87	16.68	17.49	17.59	16.9	15.89	15.64	15.38
TIS			-90.41			-89.79			-88.39			-90.15
signal path	LTE-FDD-B13			LTE-FDD-B17			LTE-FDD-B20			LTE-FDD-B28A		
		CH23230		CH23780	CH23790	CH23800	CH24200	CH24300	CH24400	CH27260	CH27435	CH27610
TRP		17.64		15.77	15.97	15.69	17.6	17.42	17.28	16.32	16.09	16.35
TIS		-88.32				-89.83			-88.68			-90.09

signal path	LTE-FDD-B28B			LTE-FDD-B66			LTE-FDD-B71					
	CH27260	CH27435	CH27610	CH132022	CH132322	CH132622	CH133172	CH133297	CH133422			
TRP	16.32	16.38	16.22	18.54	18.65	18.26	15.04	15.36	15.18			
TIS			-88.83			-92.84			-86.18			

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4: GPS/WIFI/BT

GPS/WIFI/BT 注:	GPS	Maximum signal strength	Number of stars received	Average positioning time (s)	weather condition	
		40	15+	100	Sunny	
	WIFI	Normal internet distance (m)		Distance of smooth online browsing (m)		
		10-15		10-15		
	BT	清晰通话距离 (m)				
		10-12				

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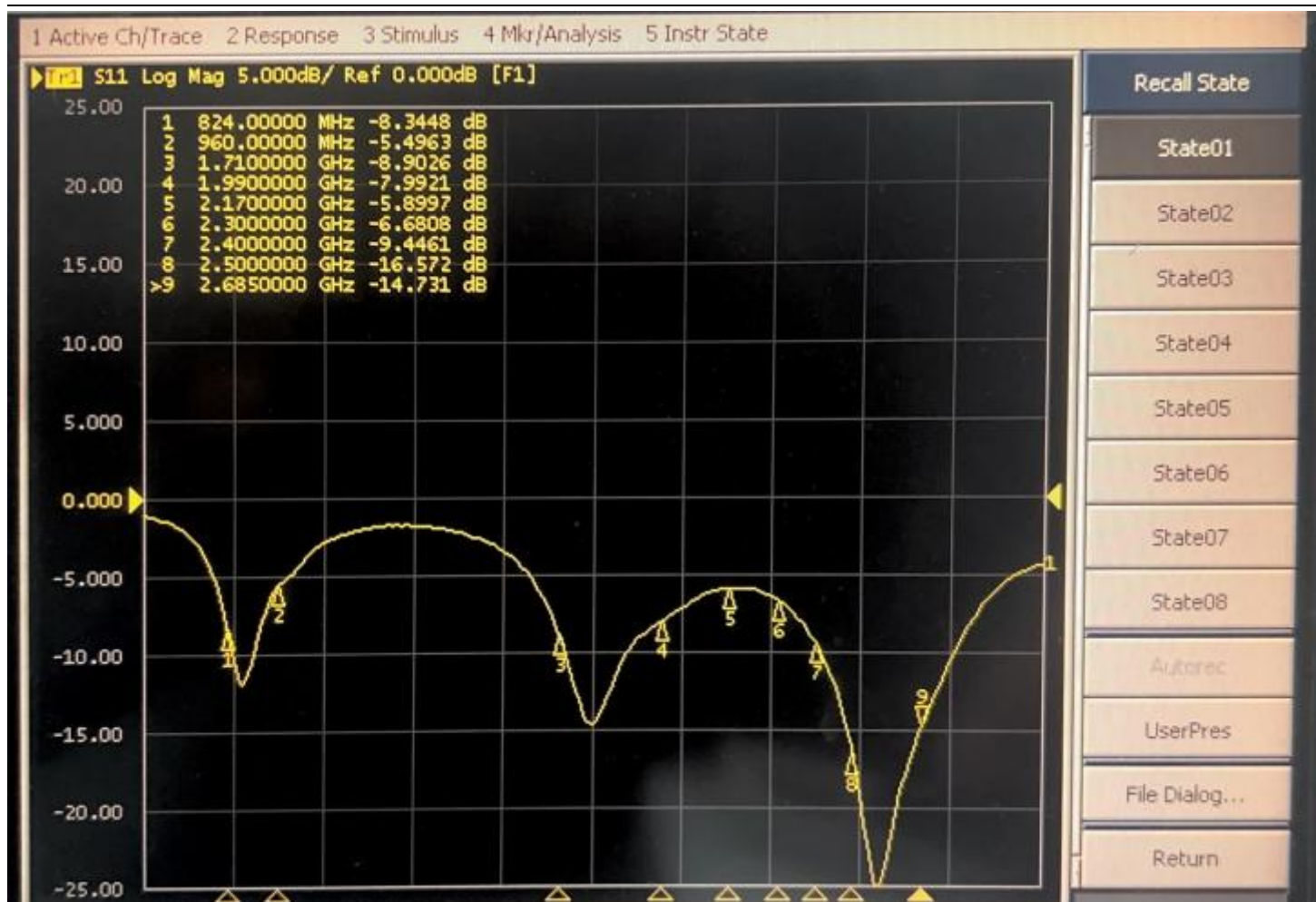


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一、 Main antenna test data

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5:Efficiency gain

Freq(MHz))	Gain(dBi)	Efficiency(%)	Freq(MHz))	Gain(dBi)	Efficiency(%)
600	-1.62	23.35	890	-1.23	25.65
810	-1.55	24.72	900	-1.38	25.05
820	-1.51	25.2	910	-1.14	26.4
830	-1.45	25.35	920	-1.34	25.52
840	-1.41	25.94	930	-1.69	21
850	-1.33	26.93	940	-1.04	28.03
860	-1.26	26.11	950	-1.3	25.2
870	-1.19	27.77	960	-1.61	22.63
880	-1.31	26.26			

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Freq(MHz))	Gain(dBi)	Efficiency(%)	Freq(MHz))	Gain(dBi)	Efficiency(%)
1700	-0.97	30.06	1960	-1.5	22.14
1720	-0.89	30.36	1980	-1.33	24.25
1740	-0.39	31.59	2000	-1.08	28.49
1760	-1.22	30	2020	-1.23	27.92
1780	-1.47	26.29	2040	-1.21	28.25
1800	-1.15	25.5	2060	-0.85	28.75
1820	-1.27	26.26	2080	-0.85	28.62
1840	-1.35	26.67	2100	-0.94	28.27
1860	-1.37	27.8	2120	-0.73	29.17

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1880	-1.56	26.68	2140	-0.57	29.23
1900	-1.15	24.09	2160	-0.93	28.18
1920	-1.32	24.26	2180	-0.86	28.6
1940	-1.35	24.57	2200	-0.63	26.92

Freq(MHz))	Gain(dBi)	Efficiency(%)	Freq(MHz))	Gain(dBi)	Efficiency(%)
2300	-0.17	26.73	2520	-0.72	30.89
2320	-0.38	27.13	2540	-1.05	29.31
2340	-0.57	29.24	2560	-0.78	26.48
2360	-0.11	23.44	2580	-1.57	23.91
2380	-0.27	27.2	2600	-1.52	23.65
2400	0.34	33.91	2620	-1.75	22.78
2420	0.23	31.24	2640	-1.58	23.45

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2440	0.47	34.64	2660	-1.59	22.17
2460	0.76	35.87	2680	-1.61	21.15
2480	0.31	33.99	2700	-1.74	20.88
2500	0.14	33.66			

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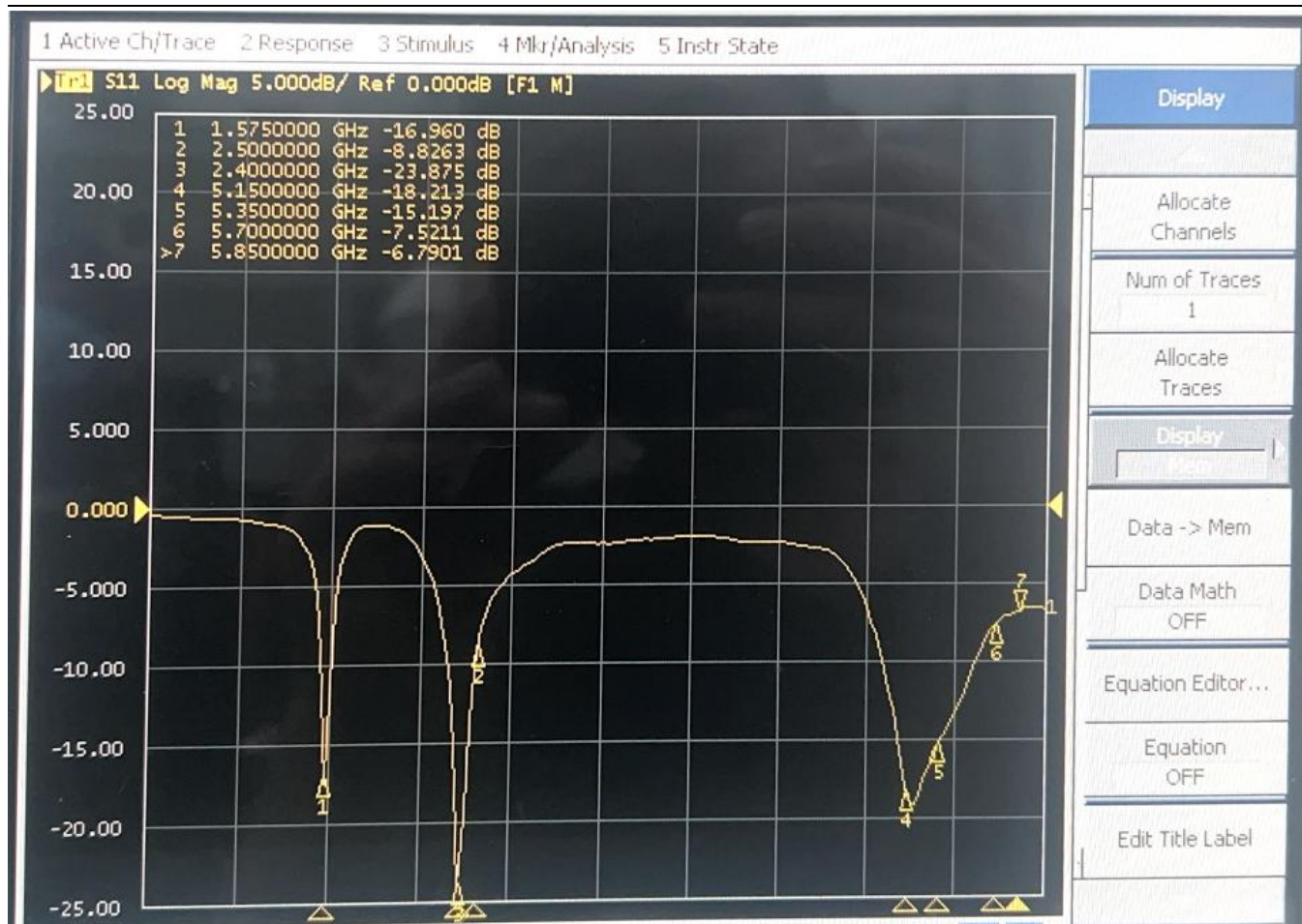
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二、 GPS/WIFI Main antenna test data

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5:Efficiency gain

Freq(MHz)	Gain(dBi)	Efficiency(%)
1550.00	-1.40	29.41
1555.00	-1.39	29.60
1560.00	-1.34	29.91
1565.00	-1.27	30.44
1570.00	-1.06	31.02
1575.00	-0.73	31.40
1580.00	-0.85	31.21
1585.00	-1.20	30.86
1590.00	-1.29	30.63
1595.00	-1.31	30.38

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1600.00 -1.56 30.00

Freq (MHz)	Gain (dBi)	Efficiency (%)	Freq (MHz)	Gain (dBi)	Efficiency (%)
2400.00	-1.30	32.18	5100	-1.24	28.81
2410.00	-1.25	32.85	5150	-1.17	29.81
2420.00	-1.24	34.35	5200	-0.97	30.31
2430.00	-1.02	35.21	5250	-1.81	25.22
2440.00	-1.08	34.79	5300	-1.82	25.38
2450.00	-0.82	34.73	5350	-1.83	25.32
2460.00	-0.74	35.58	5400	-1.95	23.32
2470.00	-0.67	36.94	5450	-1.25	29.63
2480.00	-0.55	36.04	5500	-1.11	28.21
2490.00	-0.53	37.04	5550	-1.15	29.48
2500.00	-0.44	37.22	5600	-1.21	28.01
			5650	-1.37	25.72
			5700	-1.41	26.96
			5750	-1.07	27.01

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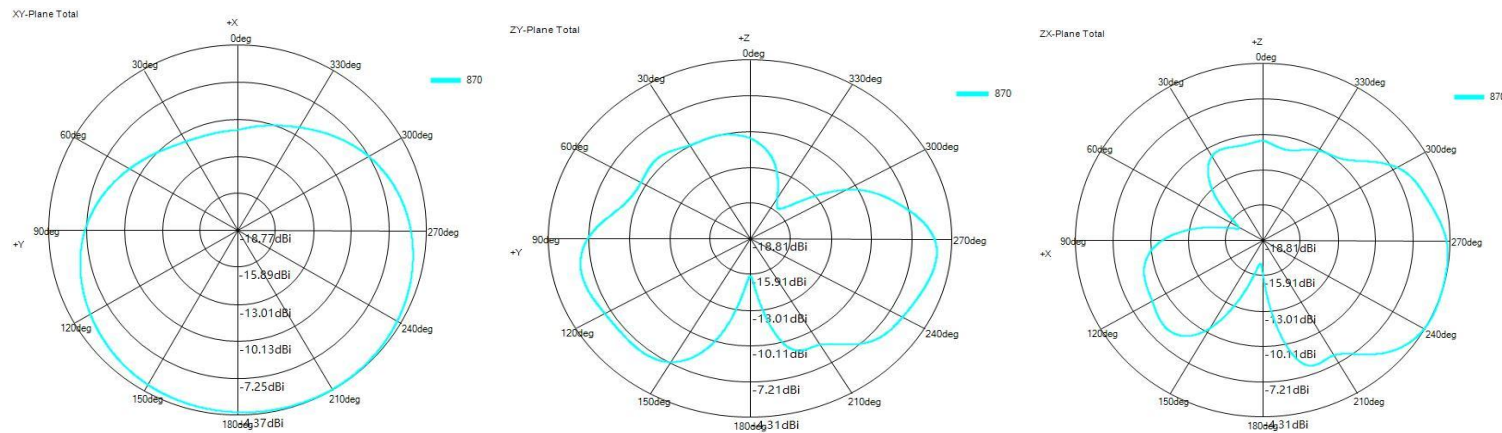
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5800

-0.22

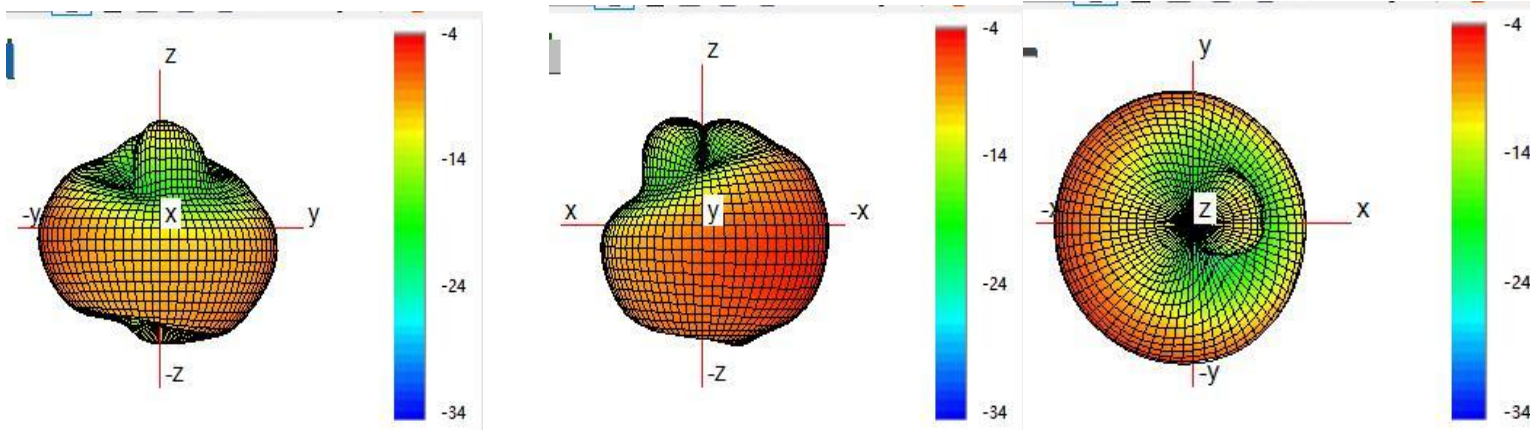
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2D/3DPIN



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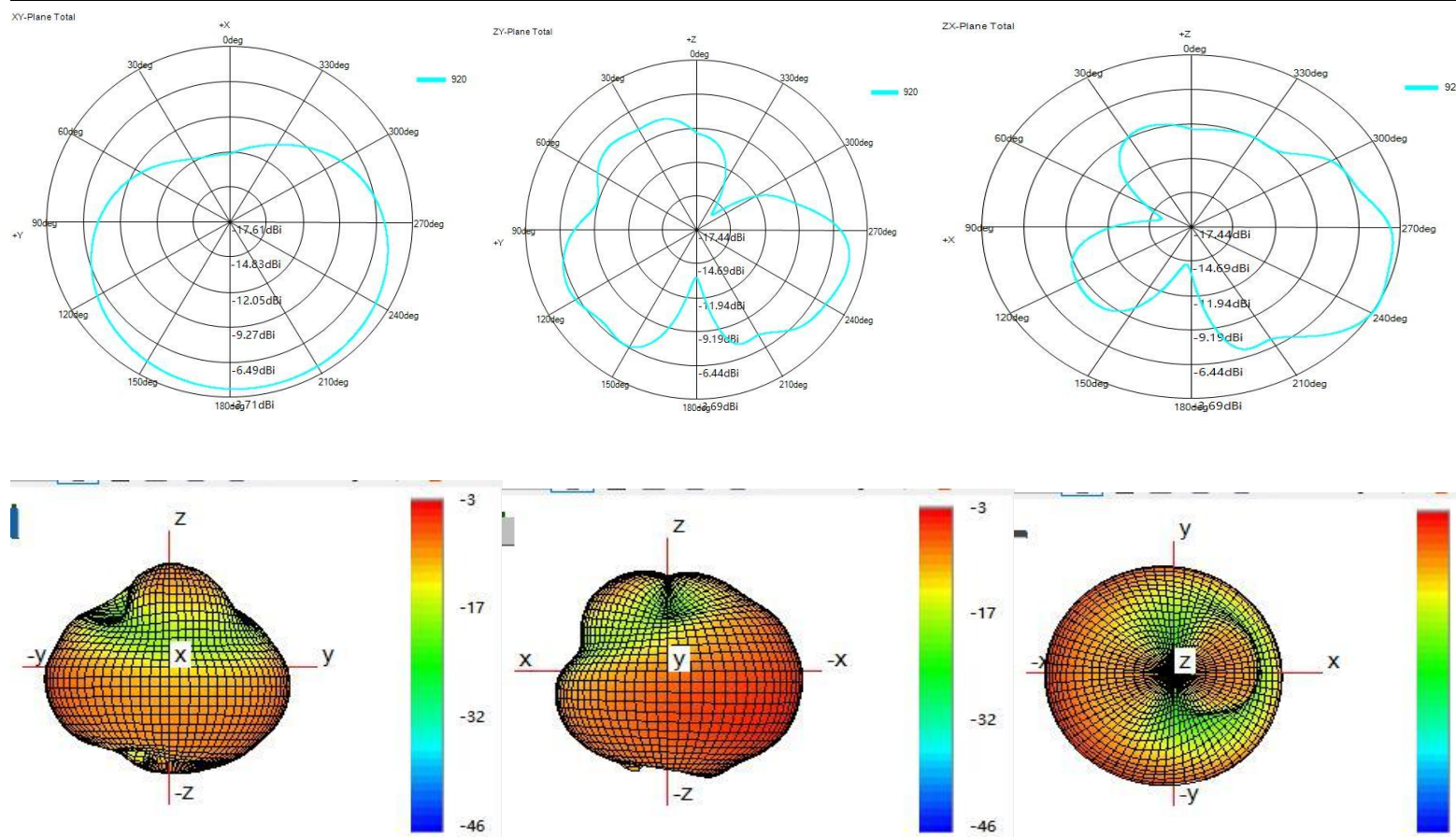
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800MHZ

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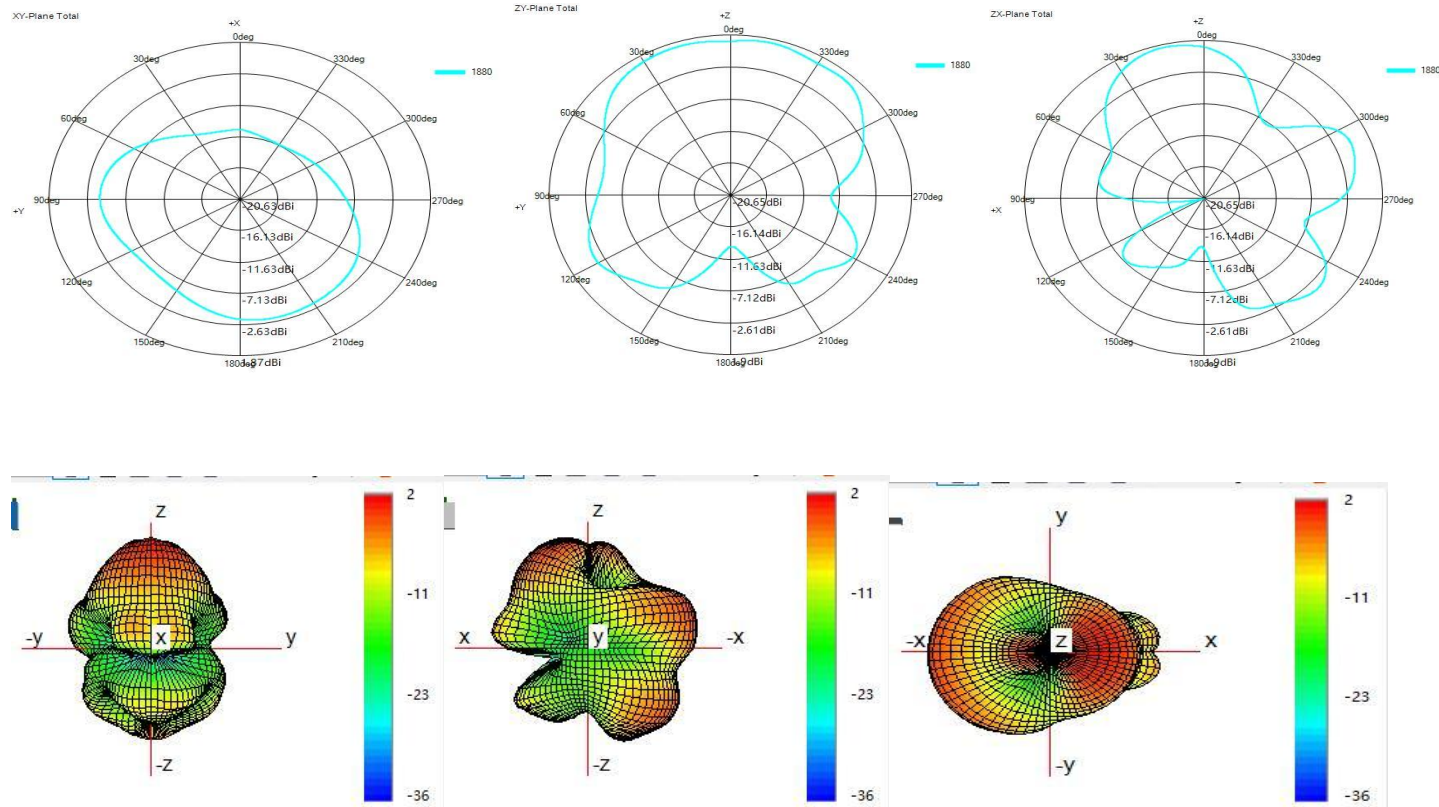
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900MHZ

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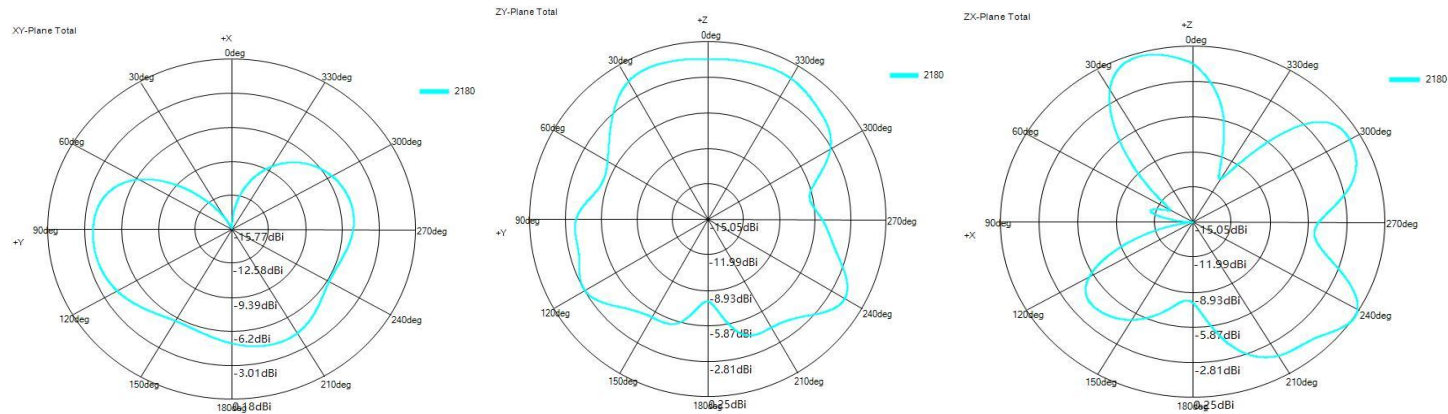
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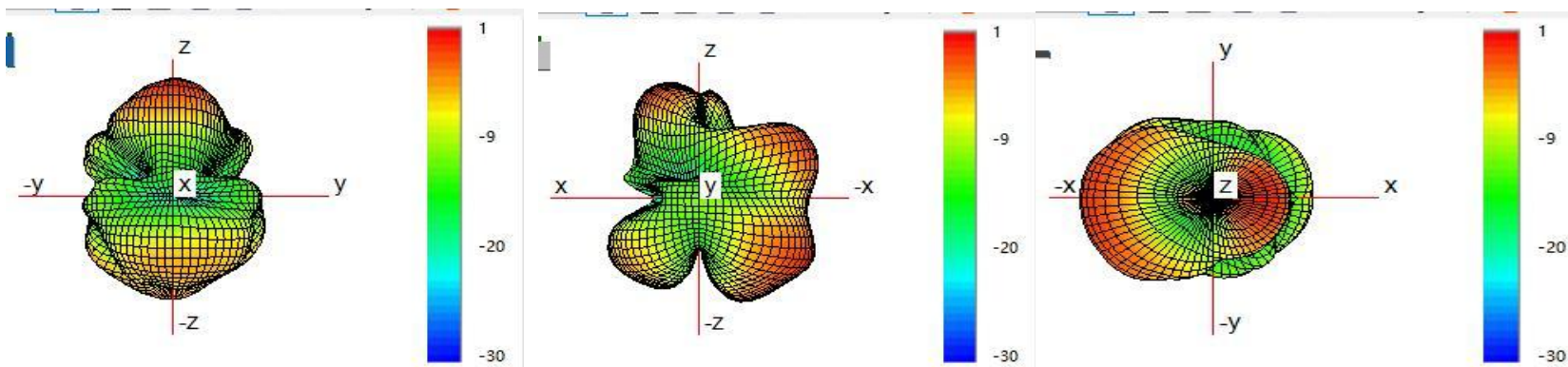
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1880MHZ



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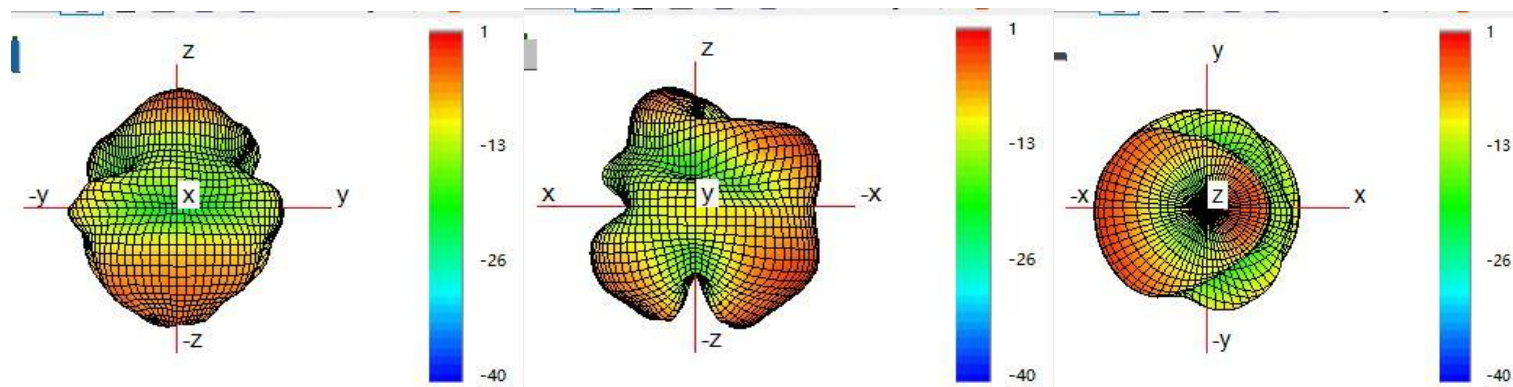
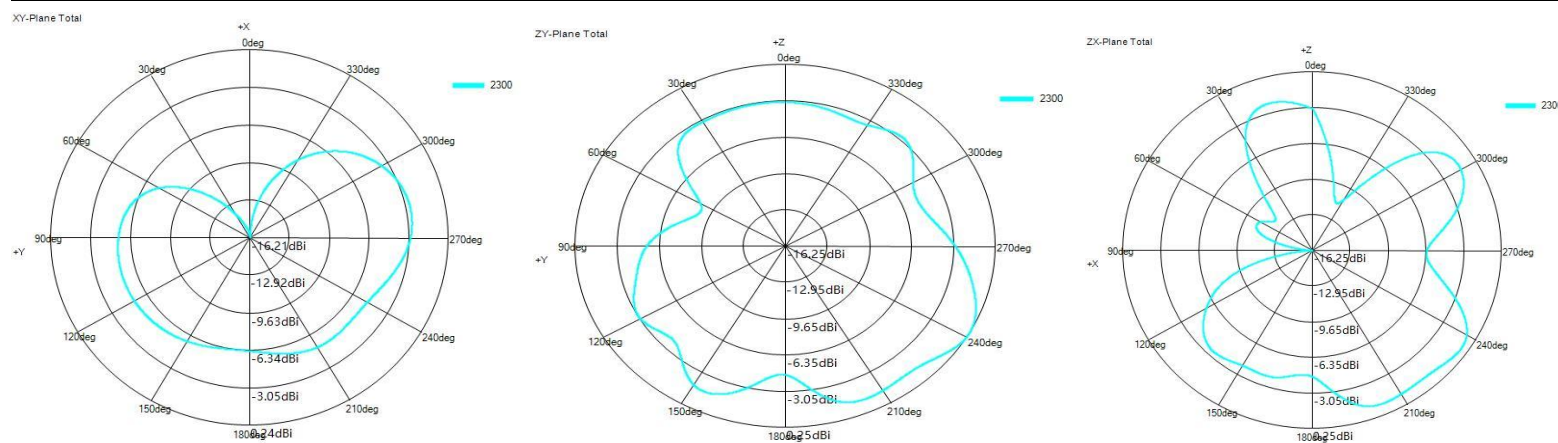
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2180MHZ

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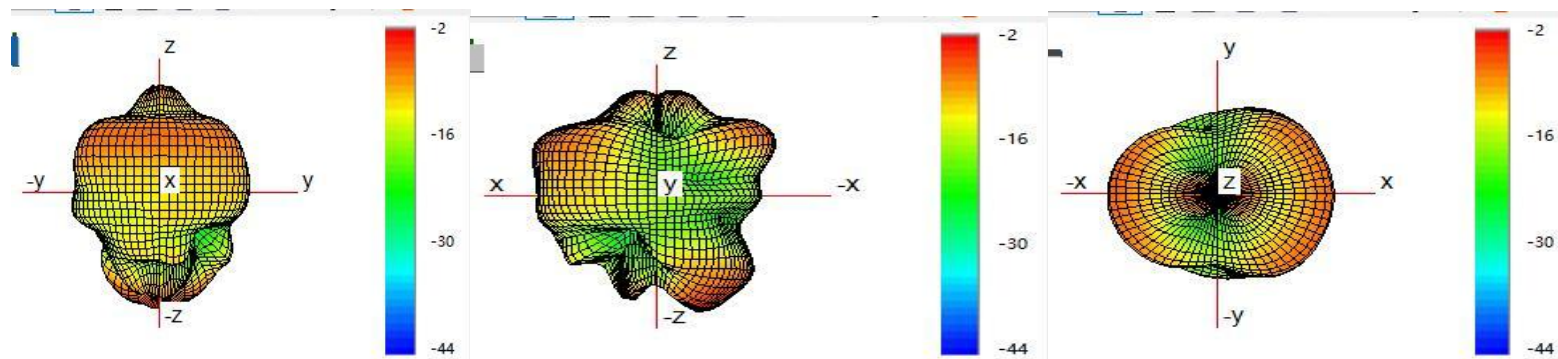
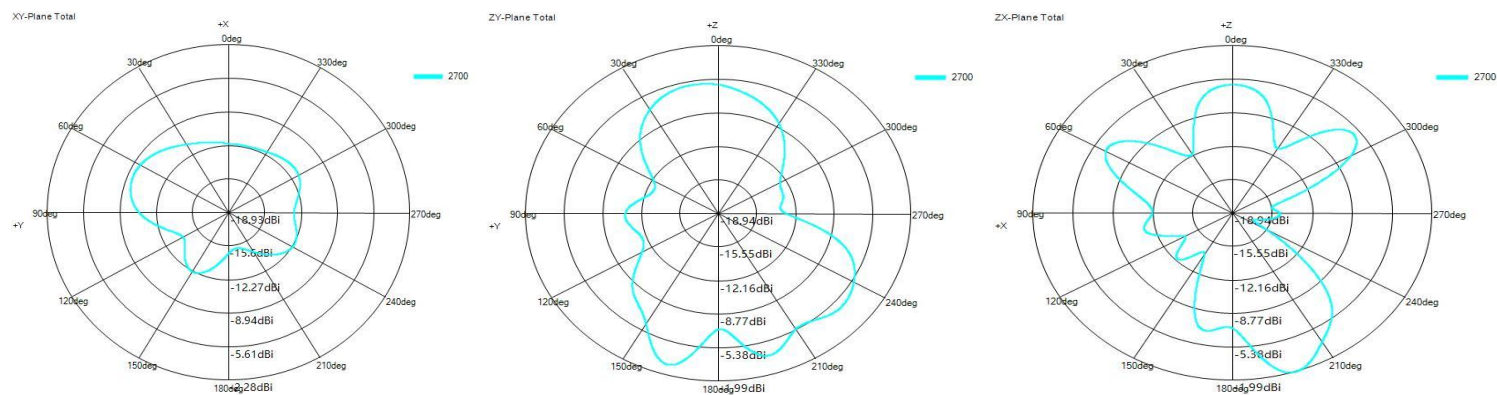
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2300MHZ

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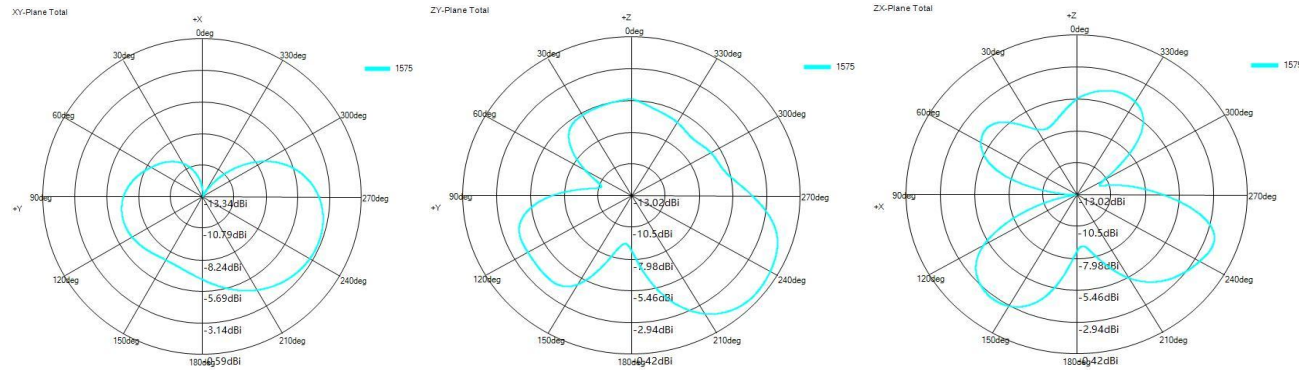
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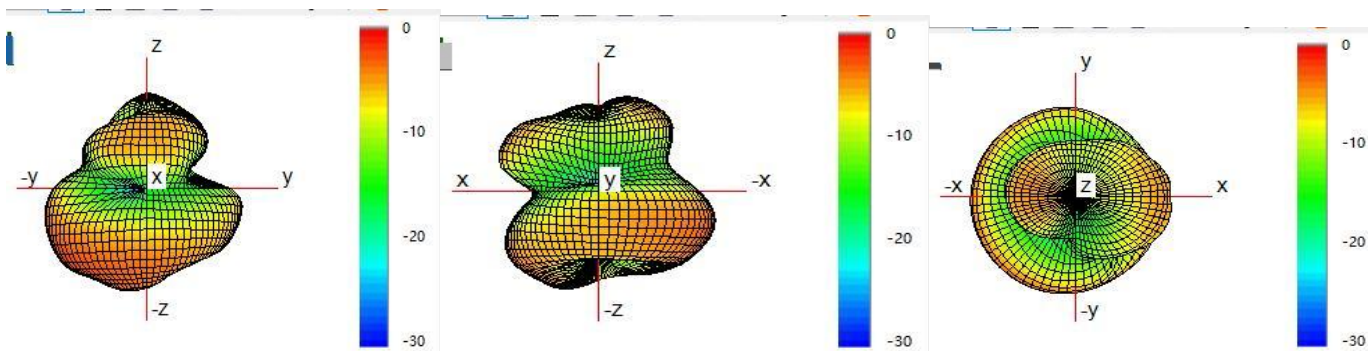
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2700MHZ

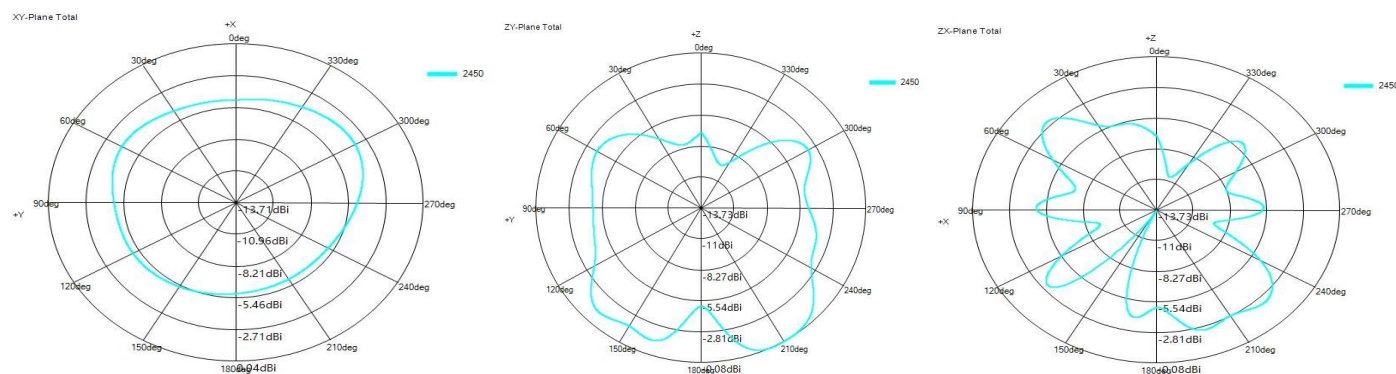


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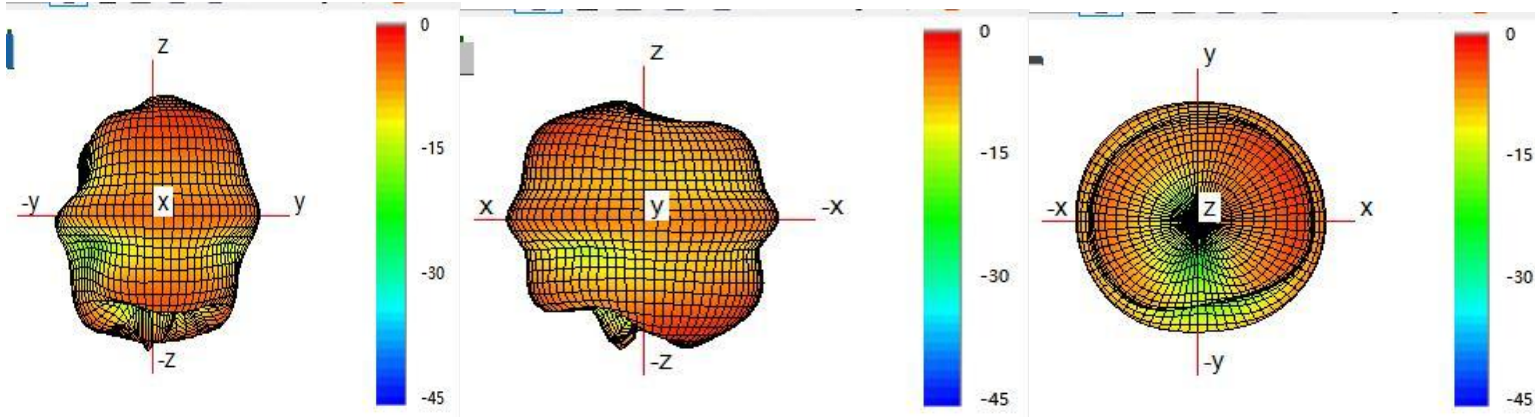


1575MHZ



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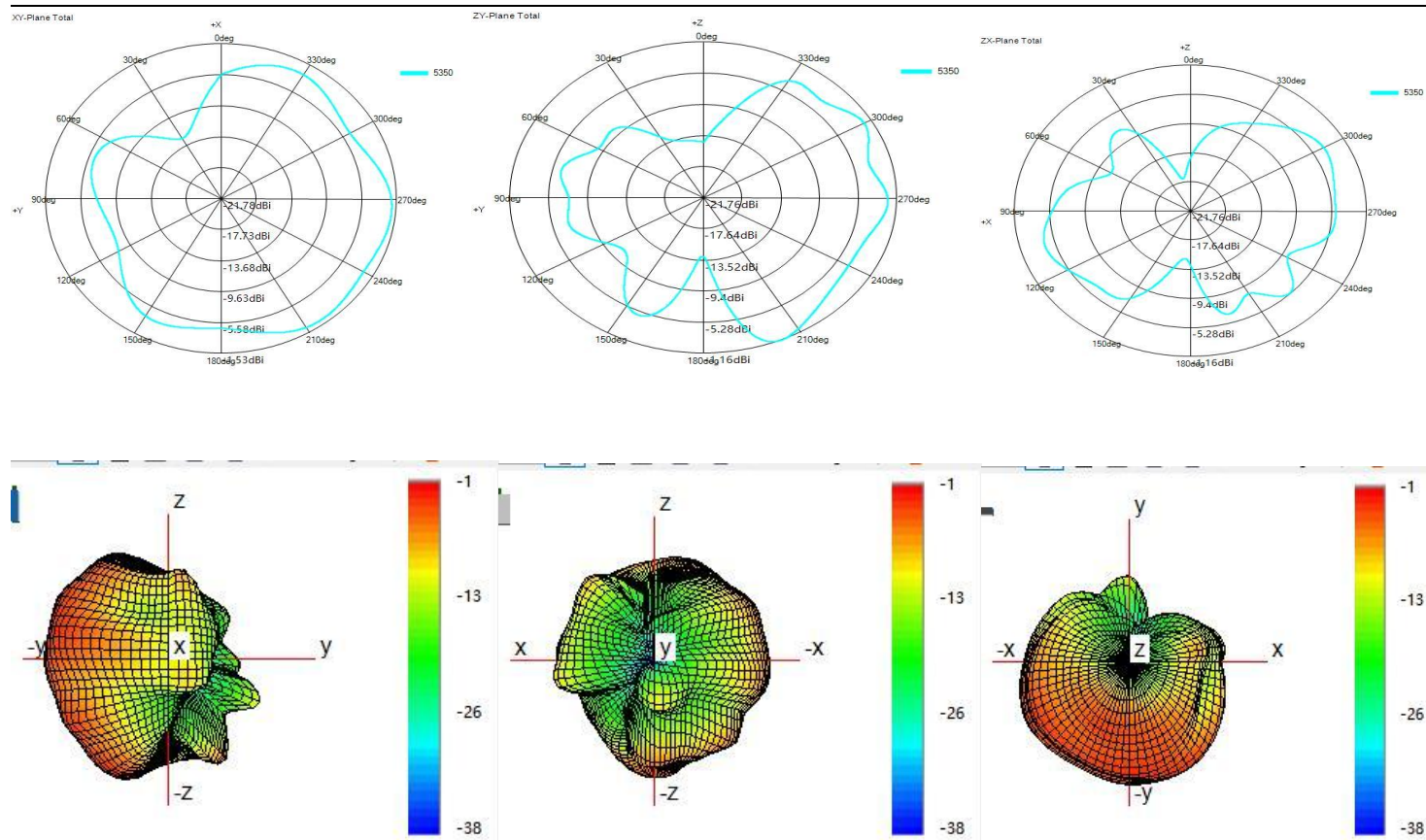
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2450MHZ

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5450MHZ

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	1	2	3	4	5	6	7	8																																					
	料 号	颜 色	色 号	供应商色号																																									
A									A																																				
B	22.60 Black oil and black letters DSQ-Y9-OM-MAIN 13.30 Non adhesive area								B																																				
C	1. Dimensions marked with *are critical dimensions. The hole positions shall be adapted accordingly. 2. FPC Material:Electrolytic copper,one-and-a-half layers. 3. Adhesive on the reverse side:3M300-9471ISE. 4. Tolerances for unmarked dimensions: For dimensions not specified,the mold-formed dimensions have a tolerance of±0.2.The copper trace dimensions have a tolerance of±0.05.Critical holes marked with *have a tolerance of±0.08. 5. Areas description:Solid areas are nickel-plated zones, areas with diagonal lines are copper trace zones,and areas with cross-hatching are adhesive zones. 6. Surface finish:Matte black coating with a sandblasted finish. 7. Environmental requirements:Ph(Lead),Hg(Mercury),Cr+6(Hexavalent Chromium), PBBs(Polybrominated Biphenyls),and PBDEs(Polybrominated Diphenyl Ethers)shall all be less than 500PPM.Cd(Cadmium)shall be less than 50PPM.								C																																				
D	Shenzhen Deshiqin Technology Co., Ltd <table><tr><td>model</td><td>Y9-OM</td><td>date</td><td>2026-9-7</td><td>page number</td><td>1 / 1</td></tr><tr><td>Project No</td><td></td><td colspan="4">Structure Design</td></tr><tr><td>Part name</td><td>Main antenna</td><td colspan="4">RF design</td></tr><tr><td>Part number</td><td></td><td colspan="4">to examine</td></tr><tr><td>external material</td><td>PI</td><td colspan="4">Confirm</td></tr><tr><td>Appearance treatment</td><td></td><td>unit</td><td>mm</td><td>imperious</td><td>FIT version T:A</td></tr></table>								model	Y9-OM	date	2026-9-7	page number	1 / 1	Project No		Structure Design				Part name	Main antenna	RF design				Part number		to examine				external material	PI	Confirm				Appearance treatment		unit	mm	imperious	FIT version T:A	D
model	Y9-OM	date	2026-9-7	page number	1 / 1																																								
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	1	2	3	4	5	6	7	8																																					

1	2	3	4	5	6	7	8
料号	颜色	色号	供应商色号				
A							A
B							B
C							C
D							D

1. Dimensions marked with are critical dimensions.
The hole positions shall be adapted accordingly.

2. FPC Material:Electrolytic copper,one-and-a-half layers.

3. Adhesive on the reverse side:3M300-9471ISE.

4. Tolerances for unmarked dimensions:
For dimensions not specified,the mold-formed dimensions have a tolerance of ± 0.2 .The copper trace dimensions have a tolerance of ± 0.05 .Critical holes marked with have a tolerance of ± 0.08 .

5. Areas description:Solid areas are nickel-plated zones, areas with diagonal lines are copper trace zones,and areas with cross-hatching are adhesive zones.

6. Surface finish:Matte black coating with a sandblasted finish.

7. Environmental requirements:Pb(Lead),Hg(Mercury),Cr+6(Hexavalent Chromium), PBBs(Polybrominated Biphenyls),and PBDEs(Polybrominated Diphenyl Ethers)shall all be less than 500PPM.Cd(Cadmium)shall be less than 50PPM.

Black oil and black letters

Non adhesive area

Breaking line of release paper

DSQ-Y9-OM-GNB

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model	Y9-OM	date	2026-9-7	signature	1 / 1		
Project No		Structure Design					
Part name	GNB antenna	RF design					
Part number		to examine					
structure material	PPI	Confirm					
Appearance (visual)		unit	mm	proportion	FIT	version	T:A

1	2	3	4	5	6	7	8
料号	颜色	色号	供应商色号				
A							A
B							B
C							C
D							D

1. Dimensions marked with are critical dimensions.
The hole positions shall be adapted accordingly.

2. FPC Material:Electrolytic copper,one-and-a-half layers.

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6. Surface finish:Matte black coating with a sandblasted finish.

7. Environmental requirements:Pb(Lead),Hg(Mercury),Cr+6(Hexavalent Chromium), PBBs(Polybrominated Biphenyls),and PBDEs(Polybrominated Diphenyl Ethers)shall all be less than 500PPM.Cd(Cadmium)shall be less than 50PPM.

Black oil and black letters

Non adhesive area

DSQ-Y9-OM-BTV

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model	Y9-OM	date	2026-10-16	signature	1 / 1		
Project No		Structure Design					
Part name	Diversity antenna	RF design					
Part number		to examine					
structure material	PPI	Confirm					
Appearance (visual)		unit	mm	proportion	FIT	version	T:A