



GUANGDONG SLEING COMM-TECH CO., LTD

承 认 书

SPECIFICATION APPROVAL SHEET

CUSTOMER _____

CUS PART NO _____

REV

_____X1_____

SPECIFICATION

700-960/1710-2700MHz

4G Antenna L=50mm(Ø1.13+MHF)

weight _____

SUP PART NO _____

SLEingB251770050

DATE

2025.03.21

SUP APPROVED

APPROVED	Structure audit	RF CHECKED	QA CHECKED	DESIGNED

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

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MODIFICATION RECORD SHEET

[illegible]



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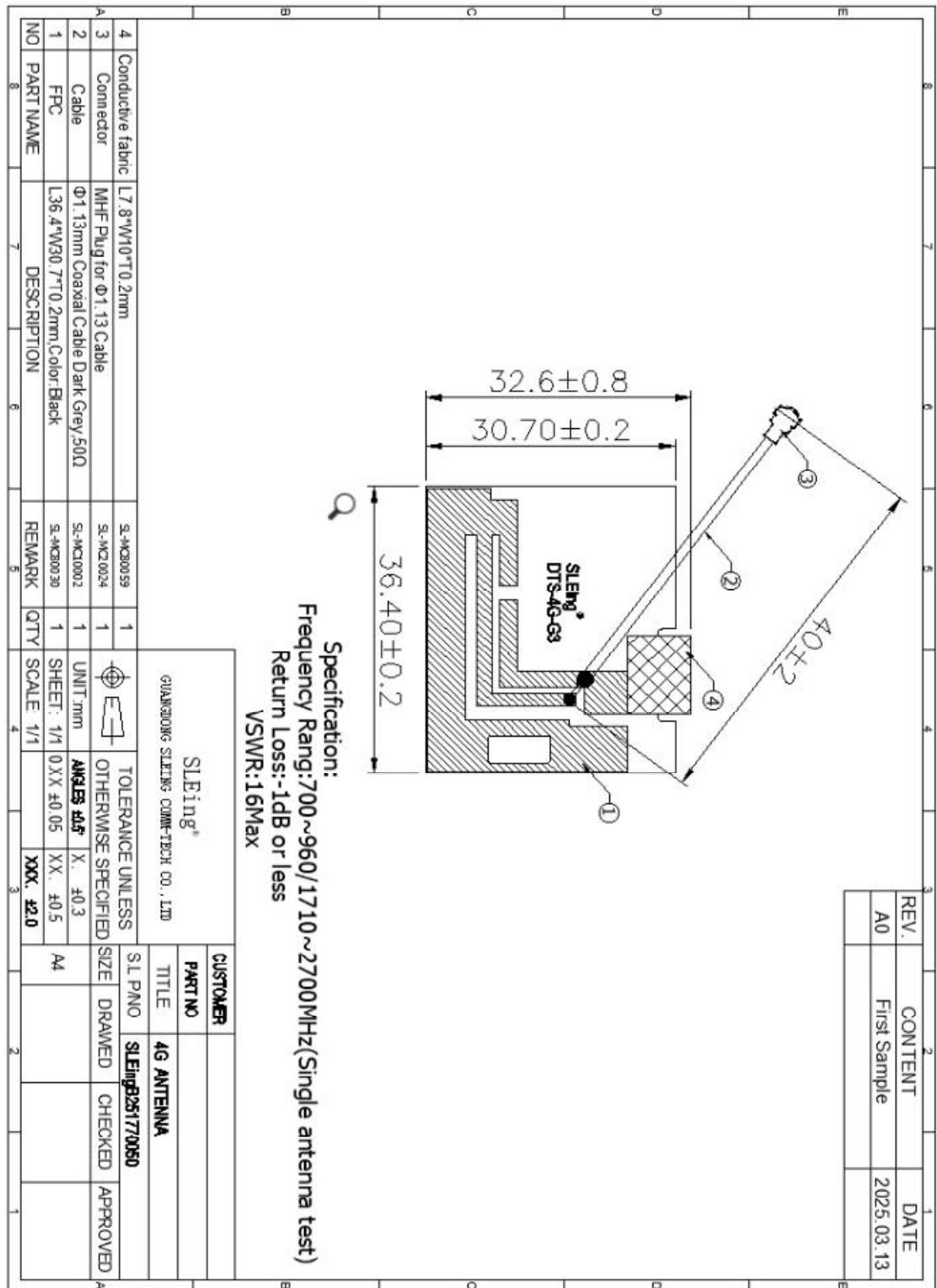
Spec Item

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Give clear indication of:

1. The contents of the acknowledgement shall be arranged in order according to the items in the check sheet.
2. The number of copies of the acceptance letter shall be printed according to the customer's requirements, and the SGS report shall be stamped with the engineering seal.
3. All materials shall be confirmed by the customer. Any material/process/changes that may affect product quality and environmental quality must be re-sent to the customer for confirmation before import.
4. SGS report is valid for one year.
5. According to the contents attached to the actual acknowledgement, check the check form: "Yes" is provided, "no" is provided according to customer requirements.

Drawing:





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Test Reports

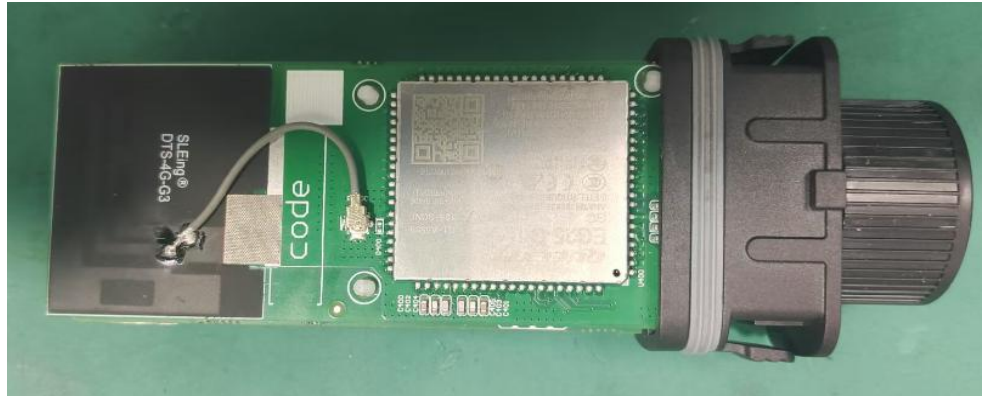
Electrical Properties	
Frequency	700-960/1710-2700 MHz(Single antenna test)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 16
Return Loss	-1dB Max
Radiation	Omni-directional
Gain (Peak)	-1.5 $\pm$ 5 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPC
Cable Type	$\Phi 1.13$ mm Drak grey
Operating Temp	-40 $^{\circ}$ C-85 $^{\circ}$ C
Storage Temp.	-40 $^{\circ}$ C-85 $^{\circ}$ C



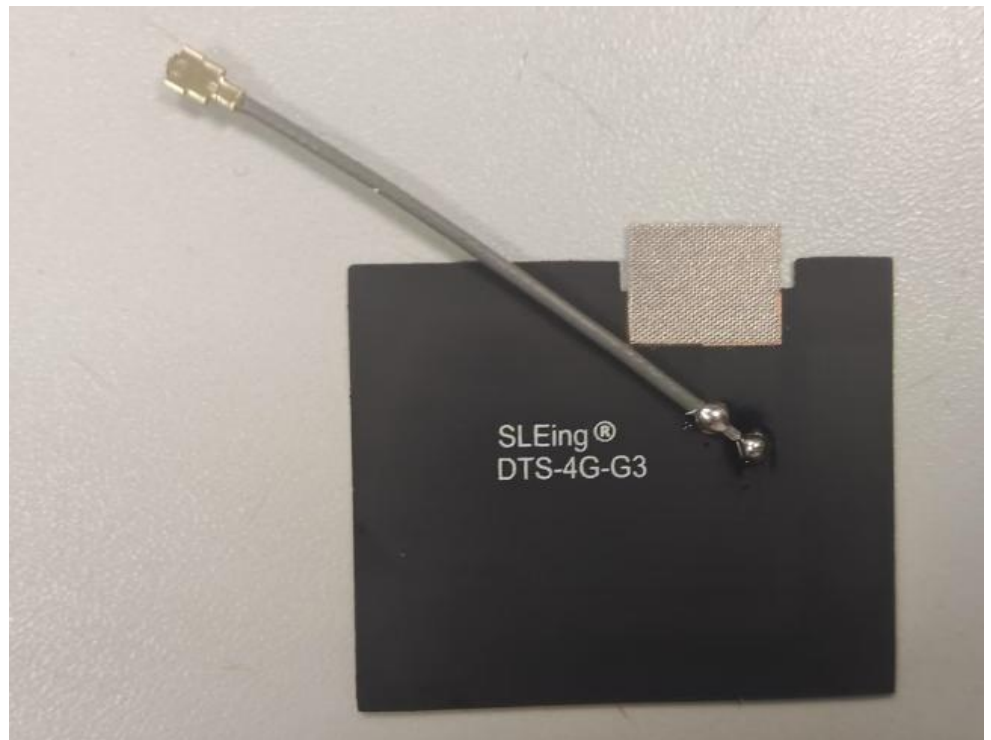
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Antenna assembly diagram

Device



Antenna

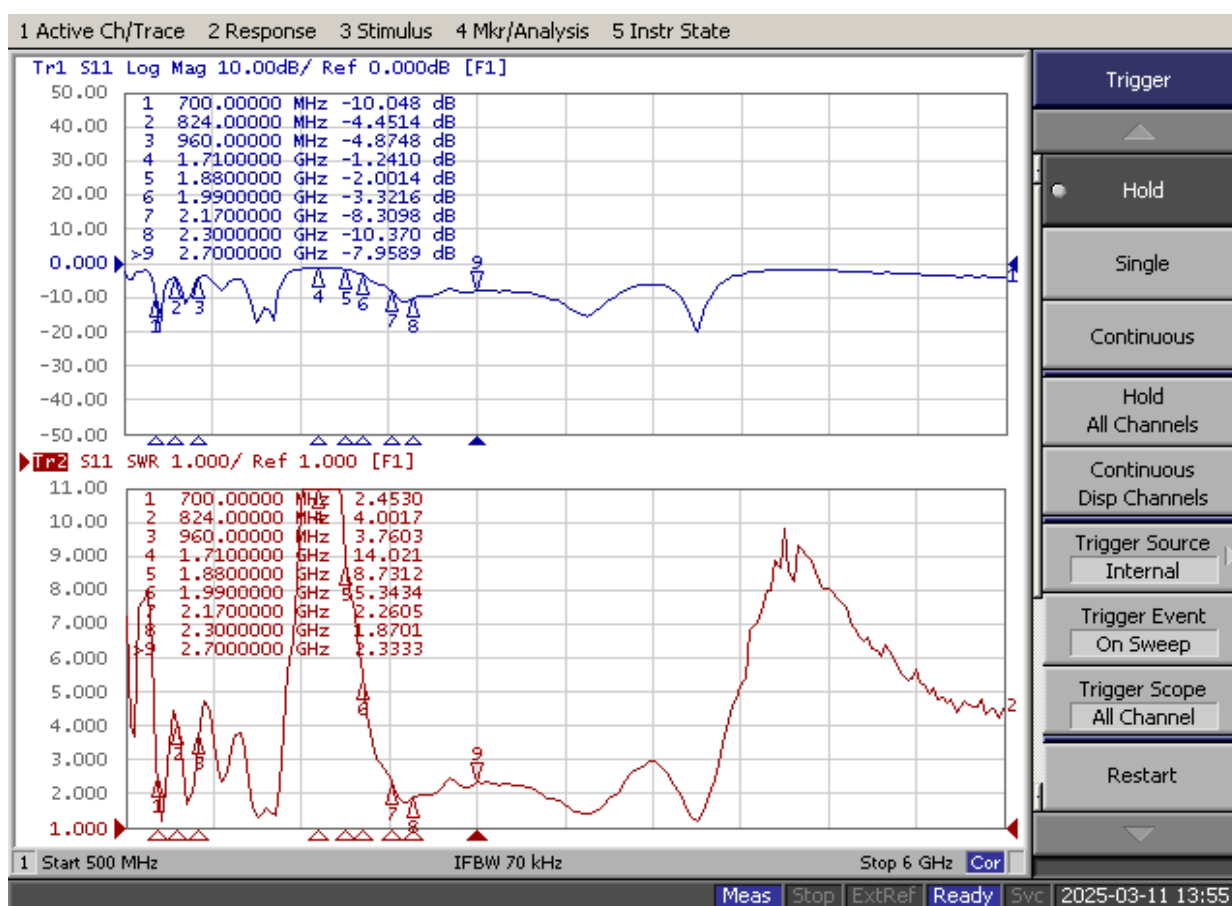


S Parameter Test

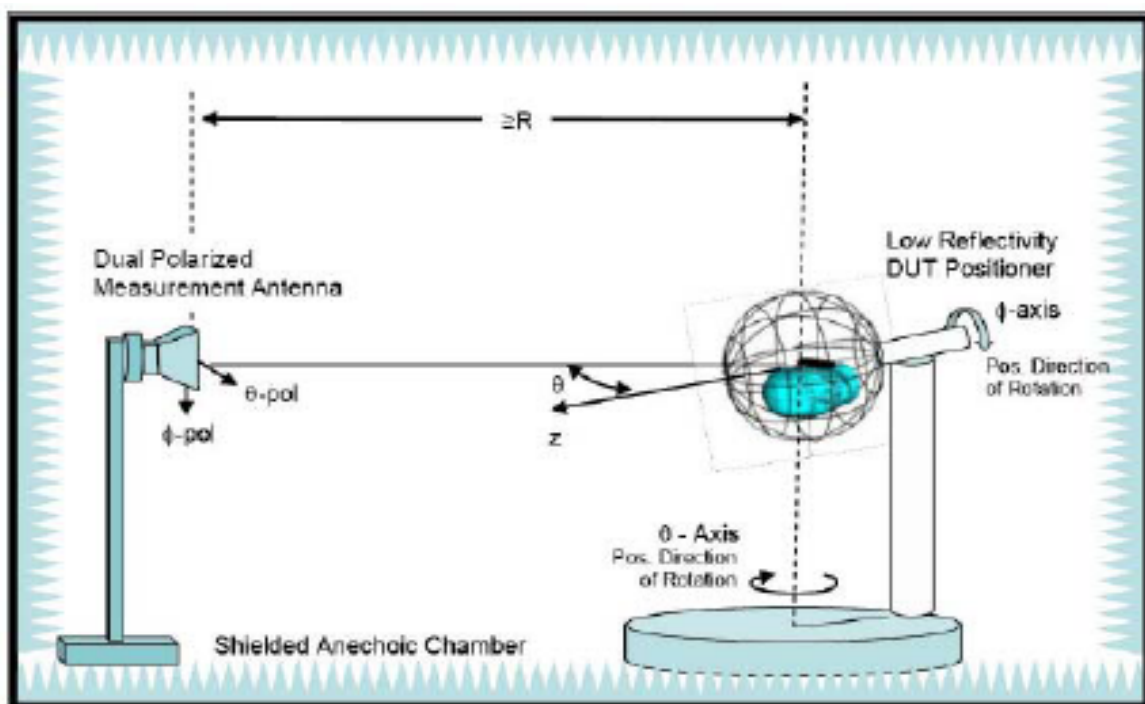
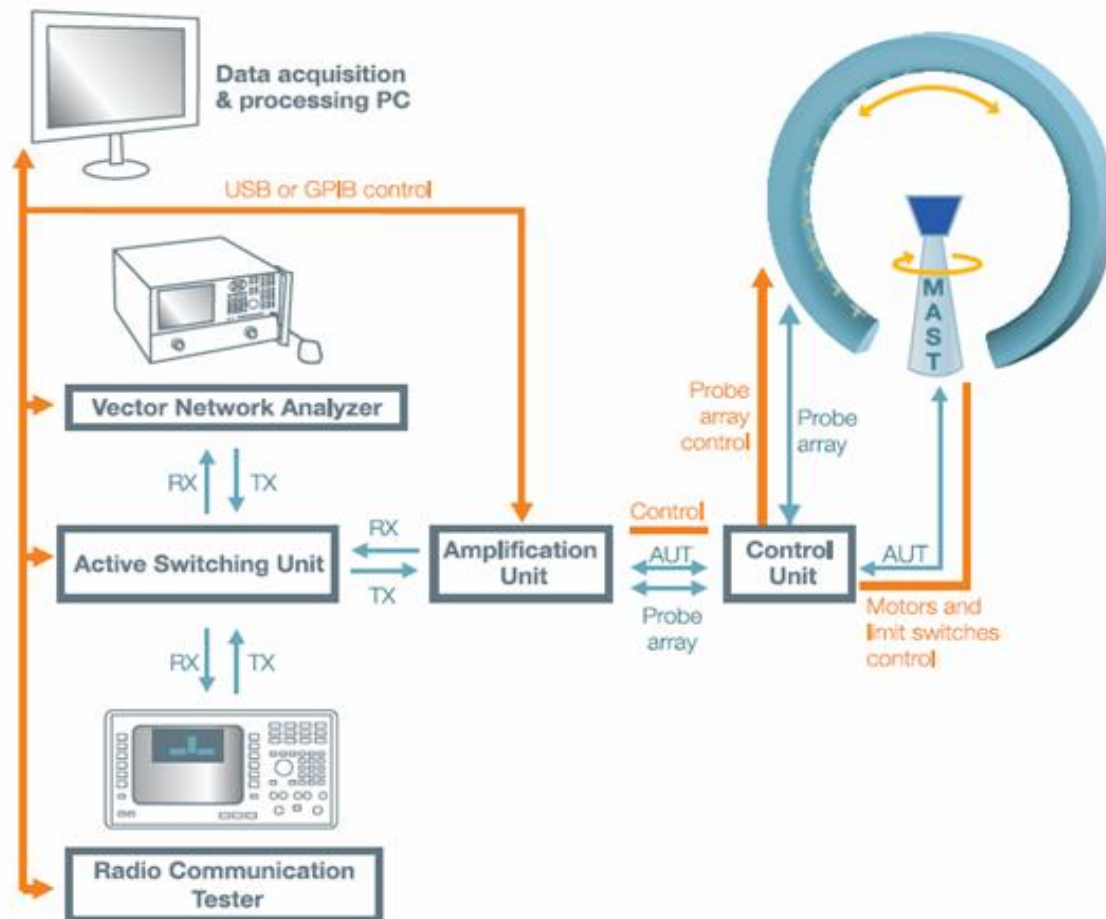
Agilent E5071C Network Analyzer



RF Antenna (VSWR/Return Loss)



Test Setup





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Test Efficiency

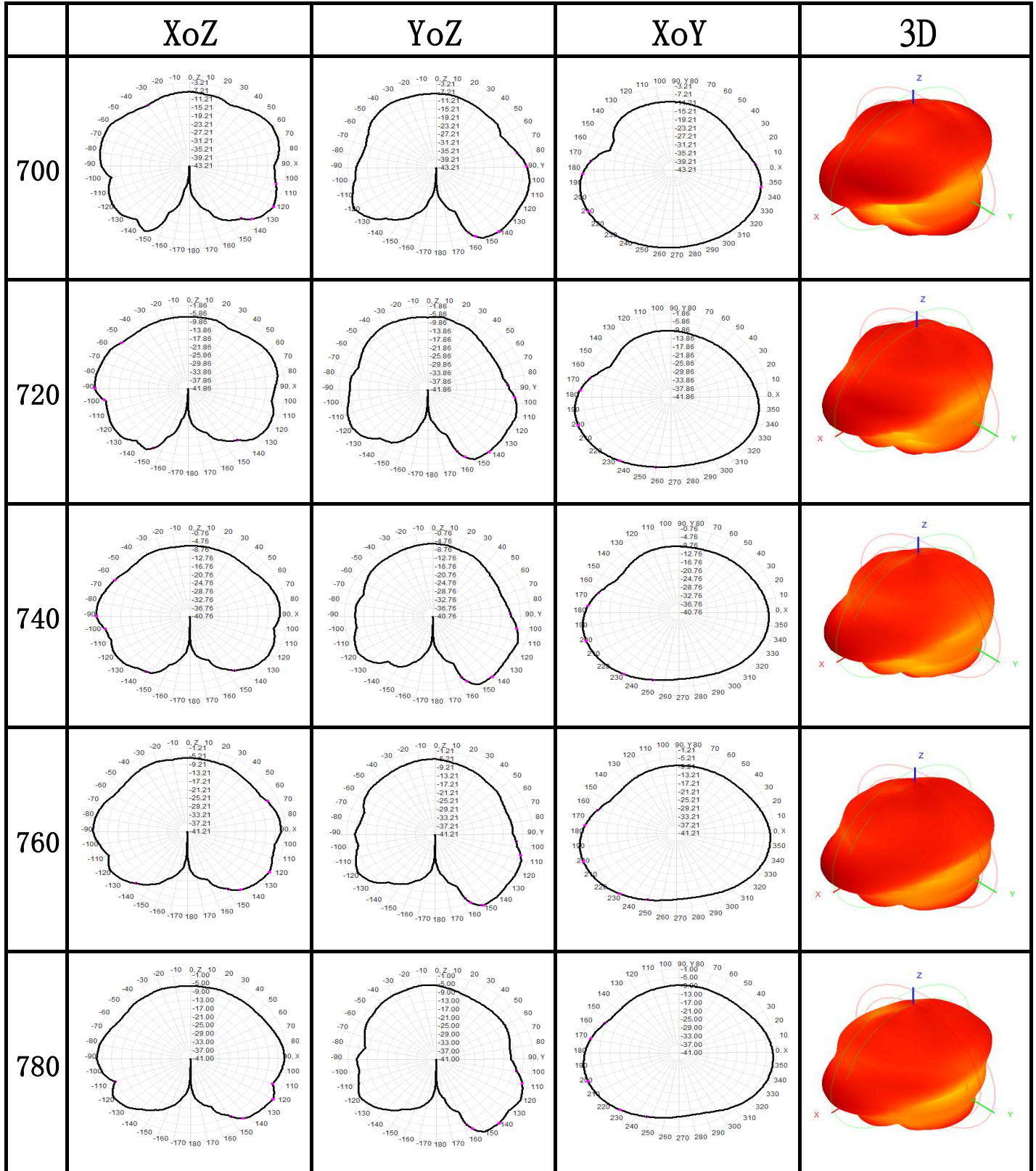
Frequency ID	1	2	3	4	5	6	7
Frequency (MHz)	700	720	740	760	780	800	820
Gain (dBi)	-2.93	-1.86	-0.76	-1.21	-0.68	-1.07	-1.72
Efficiency (%)	18.49	19.89	21.75	23.71	25.69	24.42	22.21

Frequency ID	8	9	10	11	12	13	14
Frequency (MHz)	840	860	880	900	920	940	960
Gain (dBi)	-2.20	-2.38	-2.10	-2.32	-1.89	-2.01	-1.30
Efficiency (%)	21.79	20.38	19.36	20.36	21.54	21.15	22.38

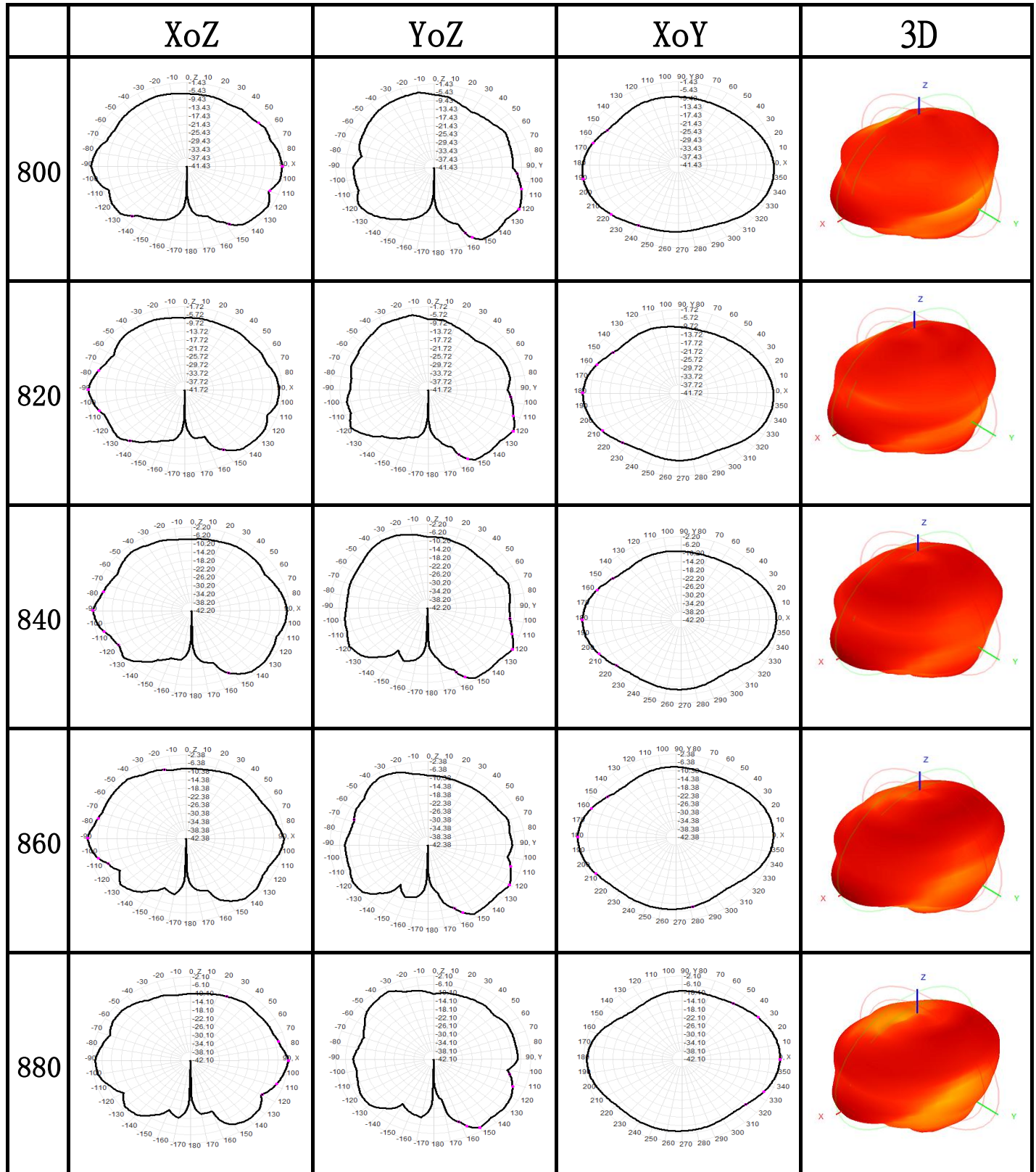
Frequency ID	15	16	17	18	19	20	21	22	23	24
Frequency (MHz)	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150
Gain (dBi)	-6.27	-6.14	-5.99	-4.89	-3.26	-1.17	-0.66	0.80	1.33	2.72
Efficiency (%)	5.27	7.64	9.80	13.79	17.41	26.56	34.26	46.83	52.87	67.16

Frequency ID	25	26	27	28	29	30	31	32	33	34	35
Frequency (MHz)	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700
Gain (dBi)	3.11	2.00	1.75	1.52	1.47	1.36	0.93	0.97	2.25	0.92	2.00
Efficiency (%)	69.08	62.06	68.28	67.18	65.22	58.20	60.22	58.70	64.11	60.74	61.56

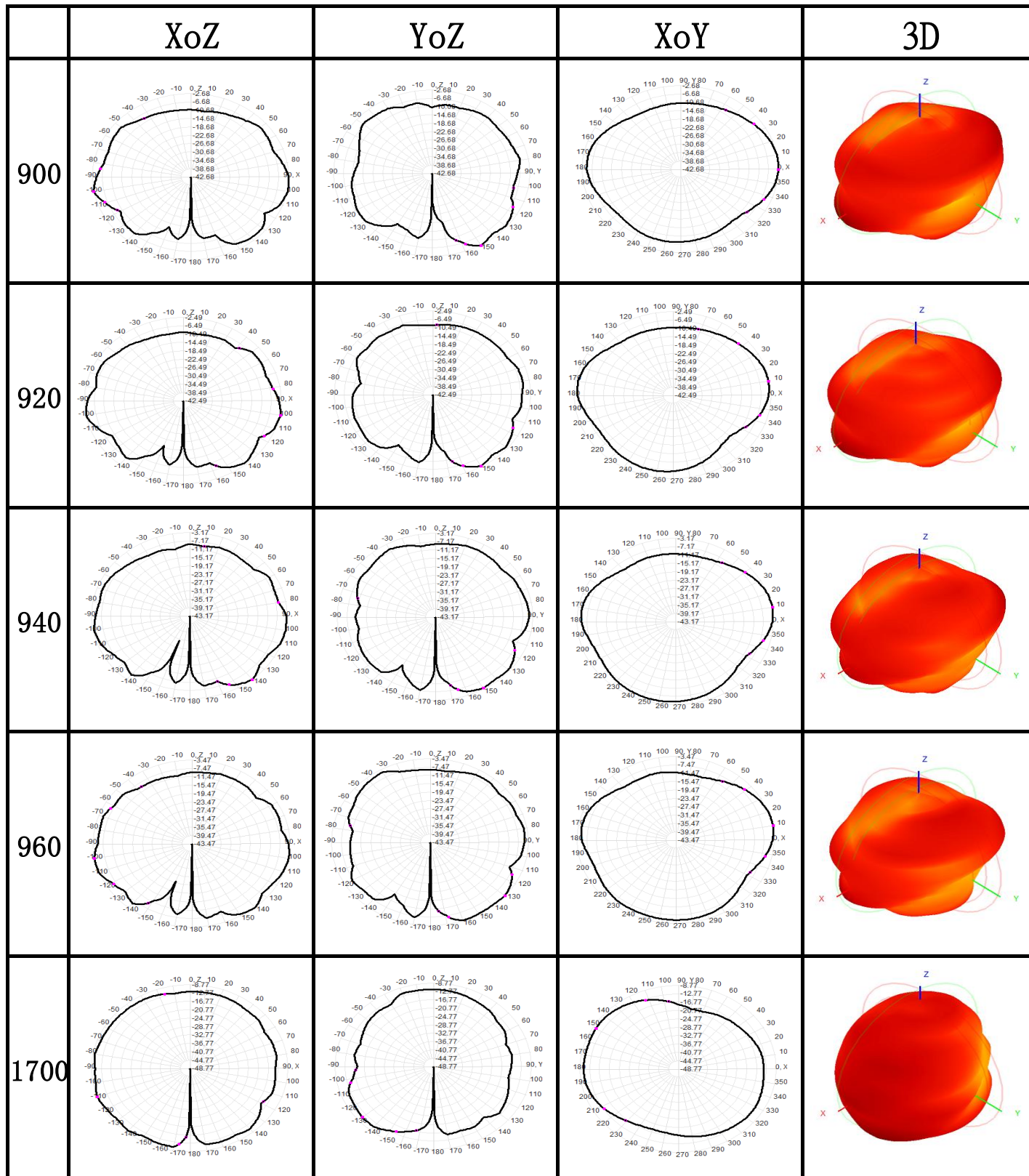
Pattern



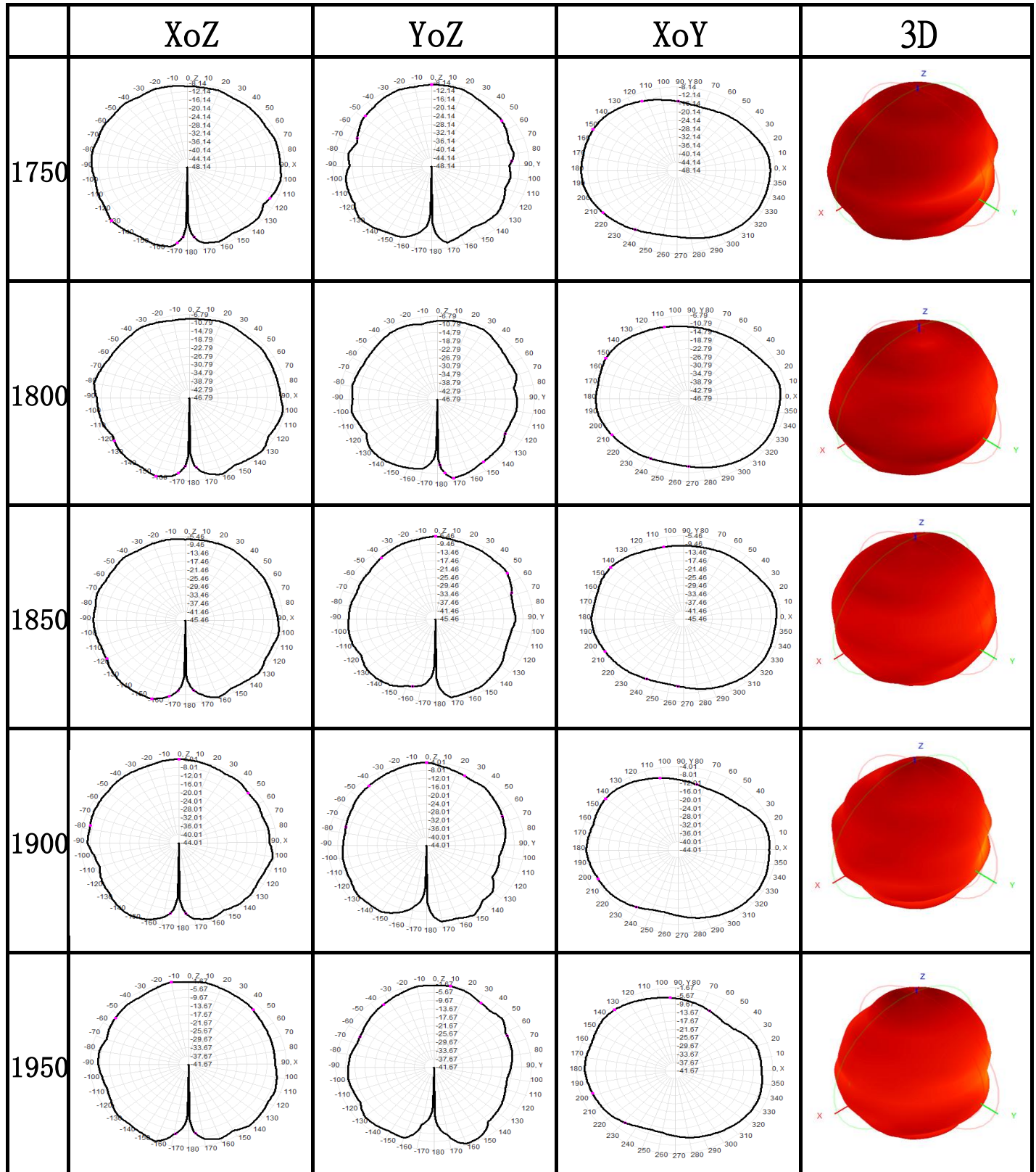
方向图 Pattern



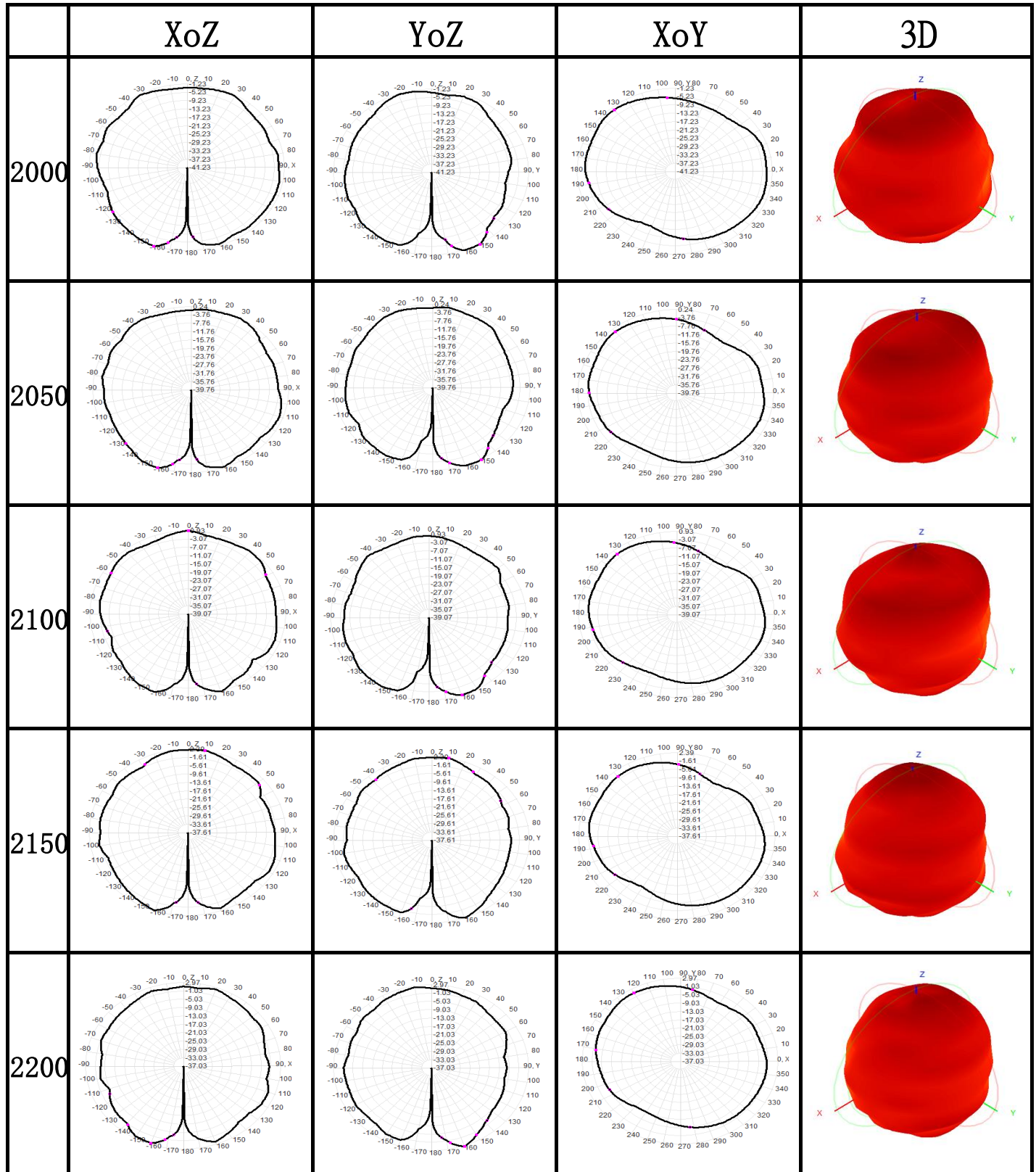
方向图 Pattern



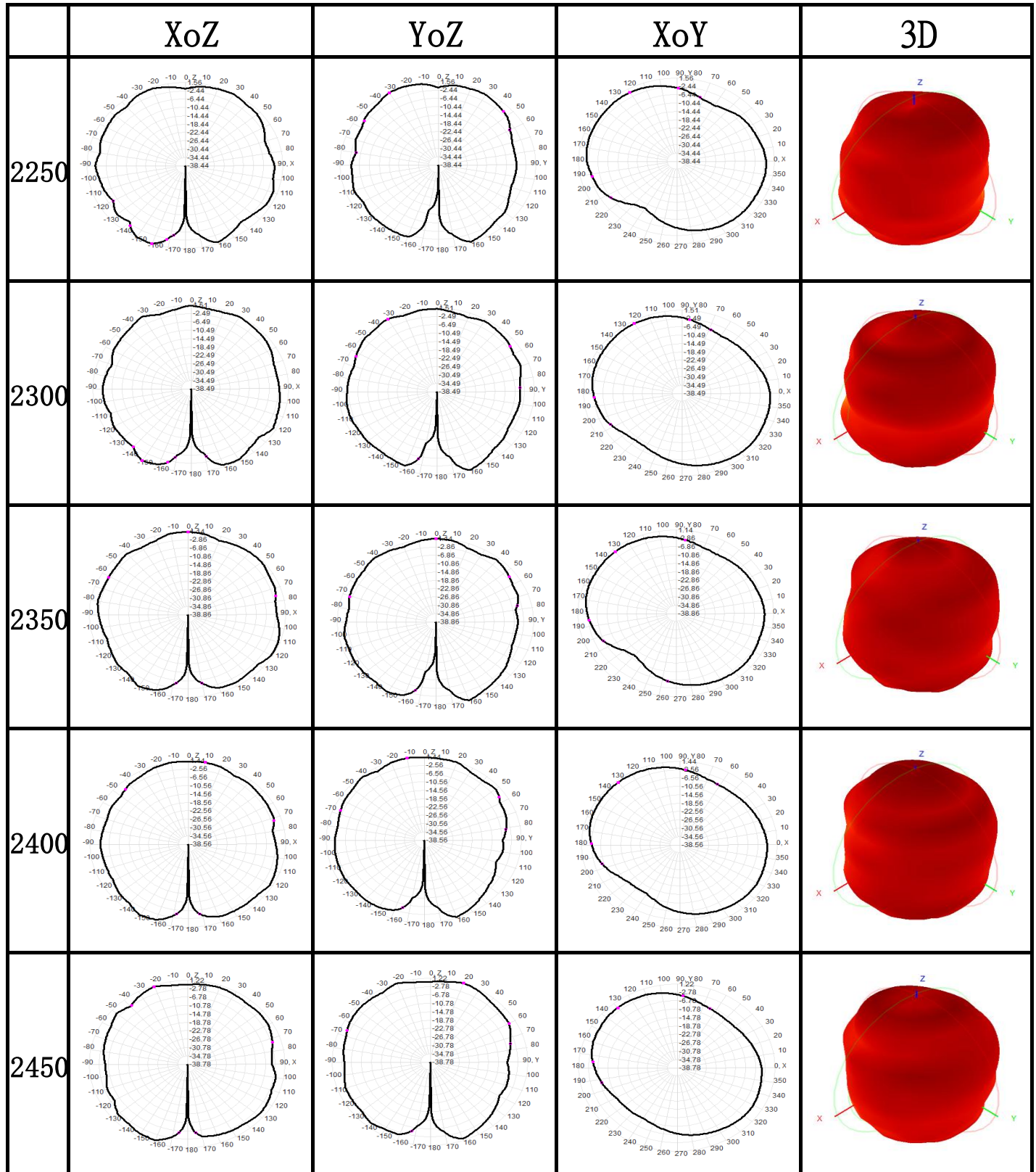
方向图 Pattern



方向图 Pattern



方向图 Pattern





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方向图 Pattern

