



DONGGUAN SLEing INTEL-TECH CO., LTD

SPECIFICATION APPROVAL SHEET

CUSTOMER: _____

CUS PART NO: _____

REV: A/0

SPECIFICATION:

GSM Antenna

4.5dBi L=1500mm (RG-174+SMA)

weight: _____

SUP PART NO: _____

SLEingA100101500-F16

DATE: _____

2022.02.27

SUP APPROVED:

APPROVED	CHECKED	QA CHECKED	DESIGNED

CUS APPROVED:

APPROVED	CHECKED	QA CHECKED	DESIGNED

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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.

Test Reports

Electrical Properties	
Frequency	824~960/1710~1880MHz
Impedance	50 Ohm Nominal
V.S.W.R	3.0Max
Return Loss	-6dB Max
Radiation	Omni-directional
Gain (Peak)	5.12 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	SMA Plug
Physical Properties	
Antenna Material	ABS
Antenna Color	Black
Cable Type	RG-174
Operating Temp	-40℃ -85℃
Storage Temp.	-40℃ -85℃

Antenna diagram





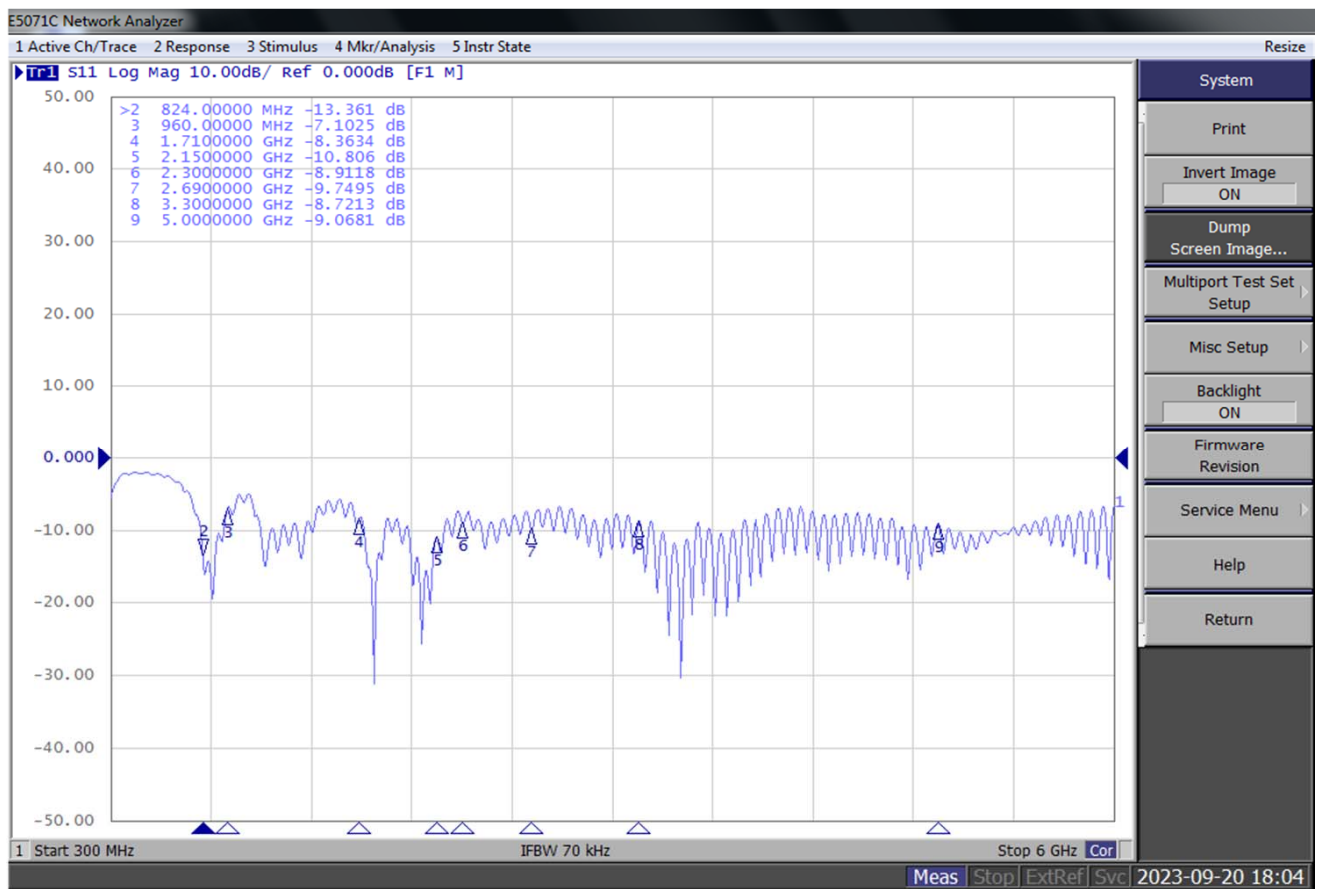
DONGGUAN SLEing INTEL-TECH CO., LTD

S Parameter Test

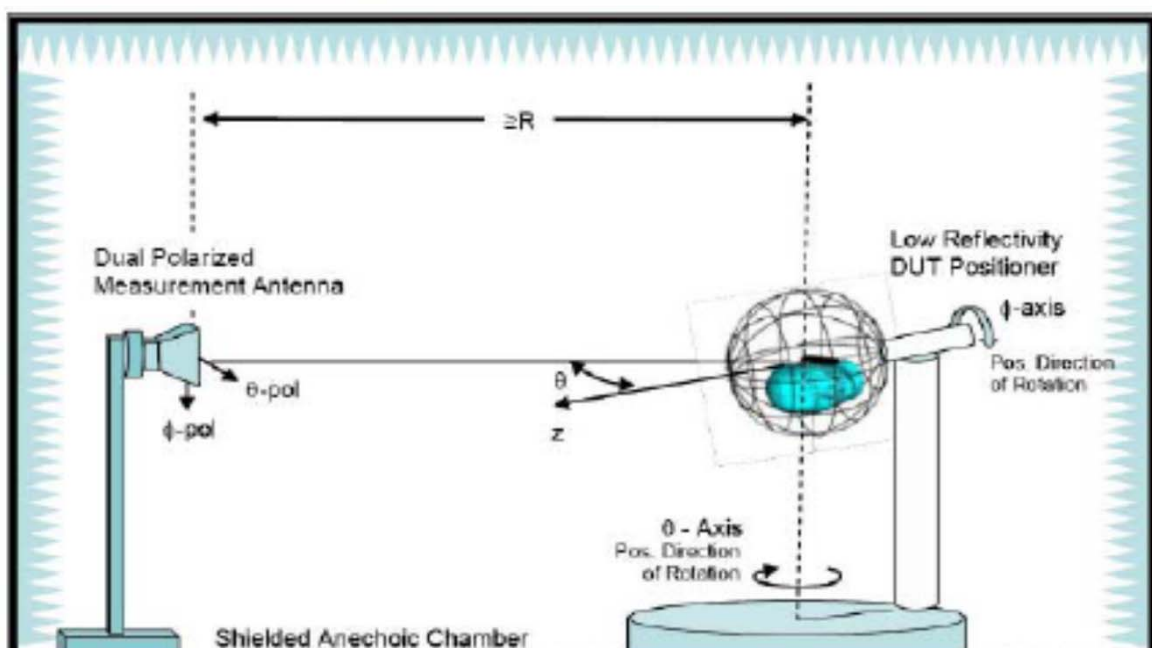
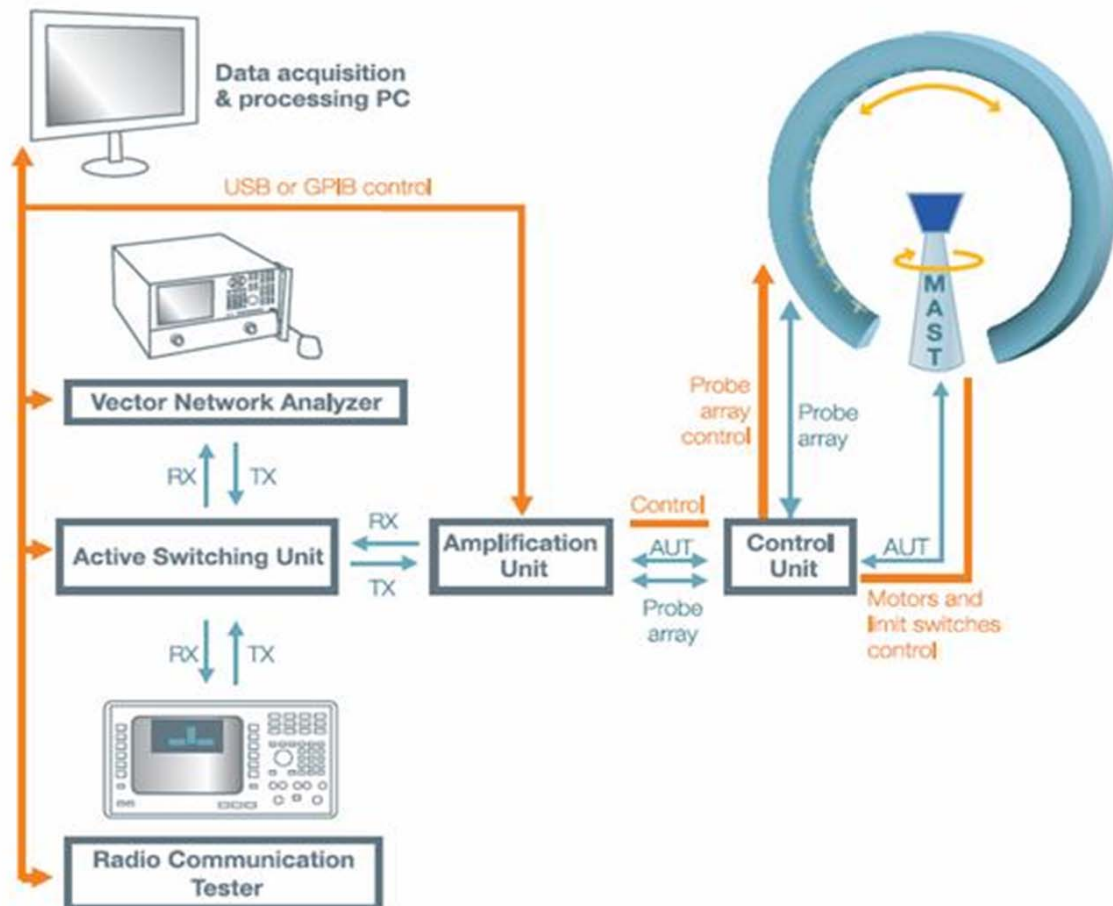
Agilent E5071C Network Analyzer



RF Antenna(Return Loss)



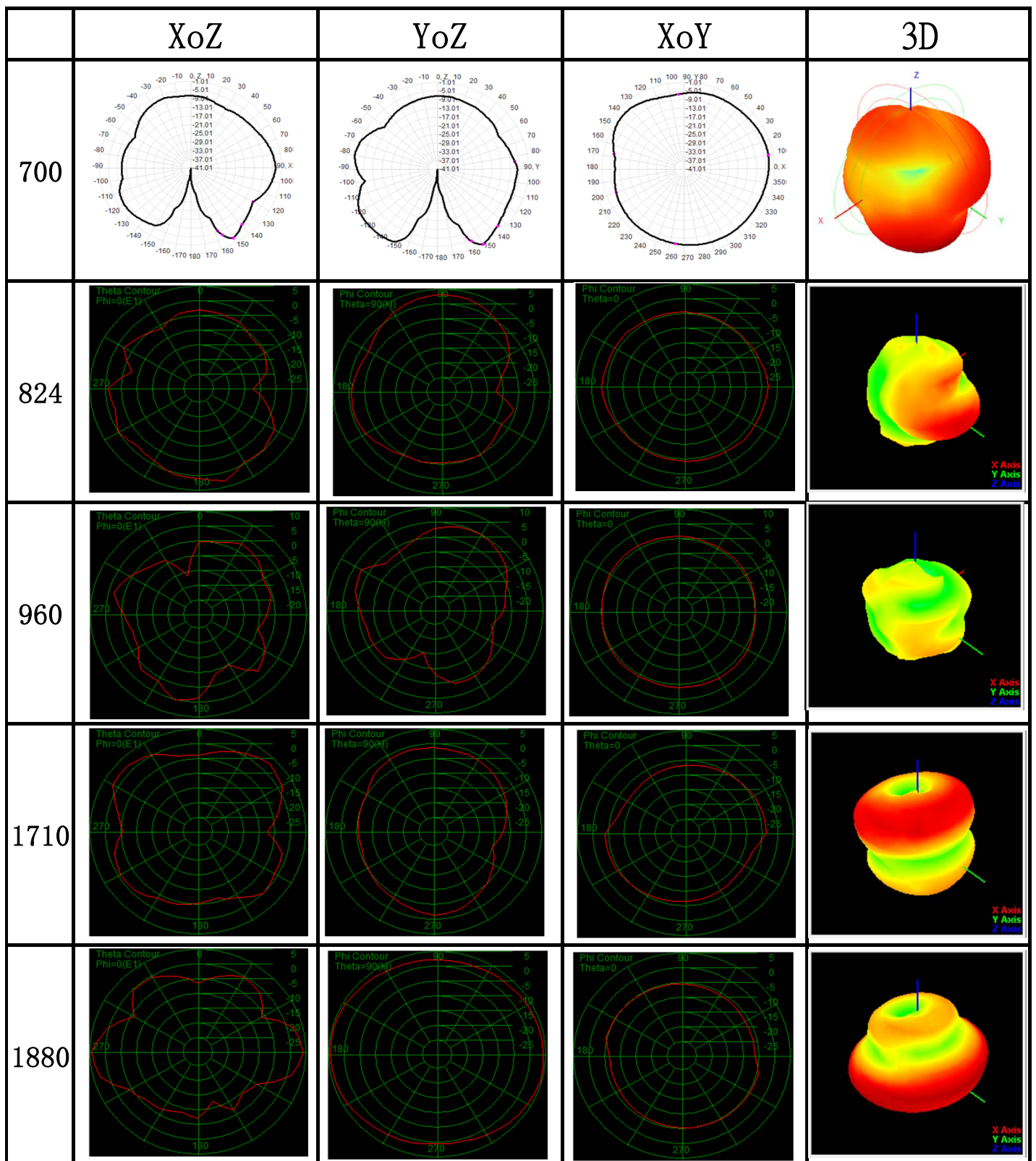
Test Setup



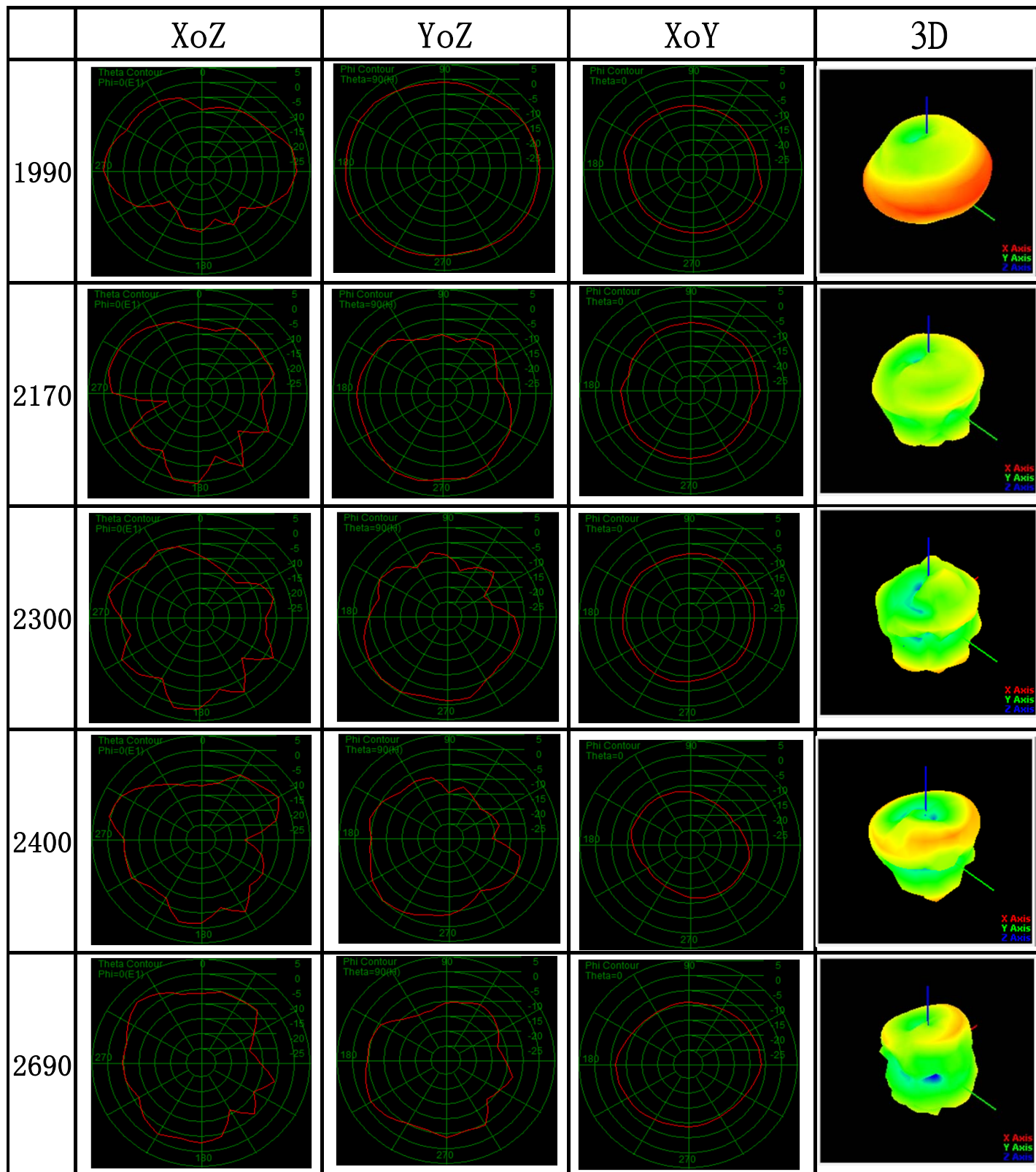


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Pattern



Pattern



Test Efficiency

Frequency ID	1	2	3	4	5	6
Frequency (MHz)	700	720	740	760	780	800
Gain (dBi)	-0.28	0.36	0.23	0.10	0.56	1.21
Efficiency (%)	22.05	24.54	22.53	21.97	23.06	29.42

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	820.0	3.03	35.4%
2	840.0	4.15	40.2%
3	860.0	5.12	48.8%
4	880.0	5.39	53.2%
5	900.0	5.42	64.3%
6	920.0	4.89	70.1%
7	940.0	4.93	69.8%
8	960.0	5.11	79.2%
9	1700.0	2.72	44.9%
10	1800.0	3.94	42.0%
11	1900.0	4.58	57.2%
12	2000.0	1.73	47.9%
13	2100.0	1.40	42.8%
14	2200.0	0.67	33.0%
15	2300.0	1.44	28.4%
16	2400.0	2.16	28.8%
17	2500.0	2.53	46.6%
18	2600.0	0.80	38.7%
19	2700.0	0.39	31.2%