

acknowledgement

SPECIFICATION FOR APPROVAL

Customer Name:

Product Name:

4G Circular External Black Rubber Rod Antenna

Naisi Male Tip & Needle with Waterproof Ring

CUSTOMER P/N:

UB P/N: UB02S35B2D1515A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	 Xiong Lina	
APPROVED BY:	 Xiong Wenqiang	
DATE:	2026/09/10	

Change Record

Item	Version	Changes	Formulate	date
1	A	new issue	Xiong Lina	2026-09-10

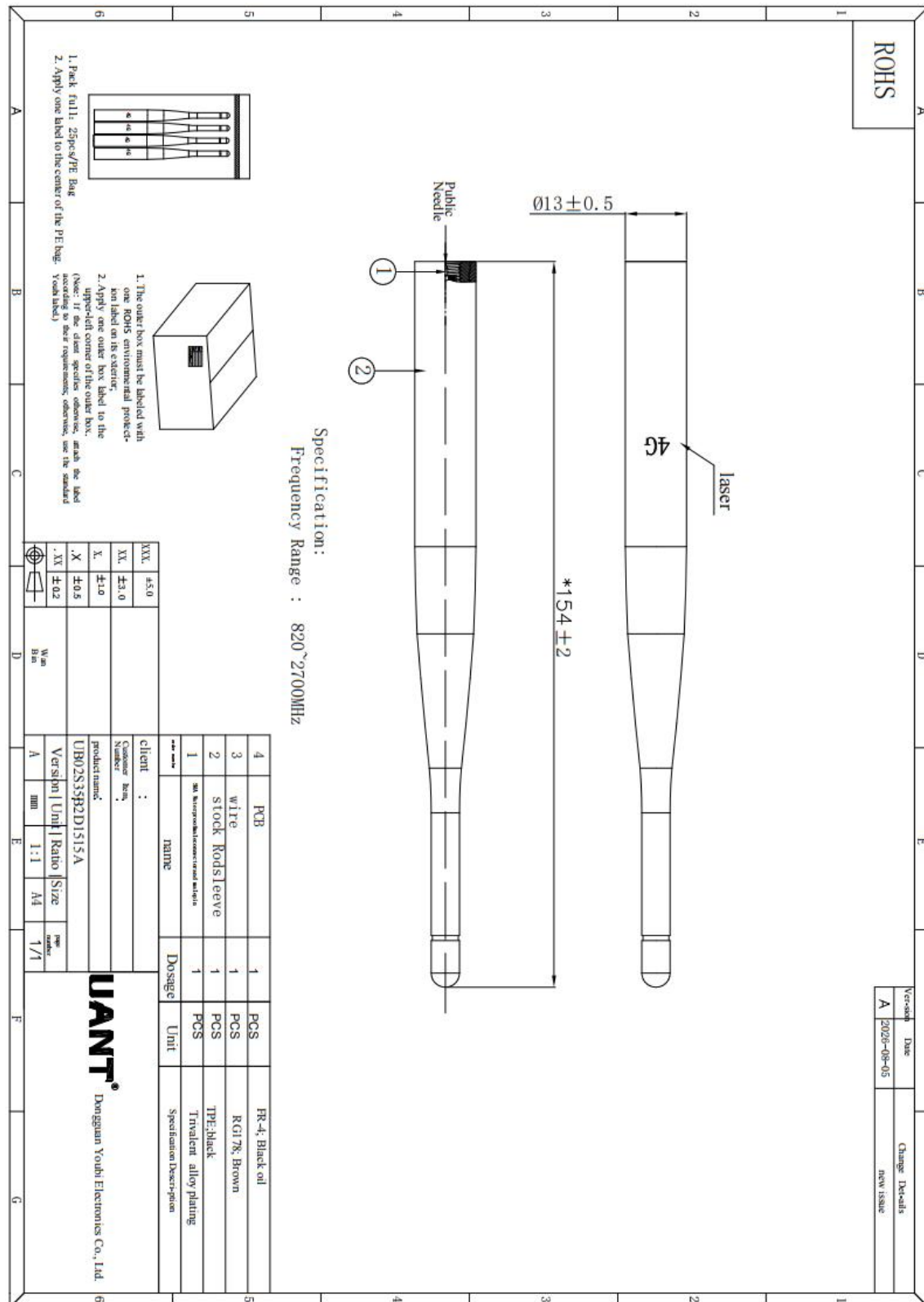
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1. Specifications Table:

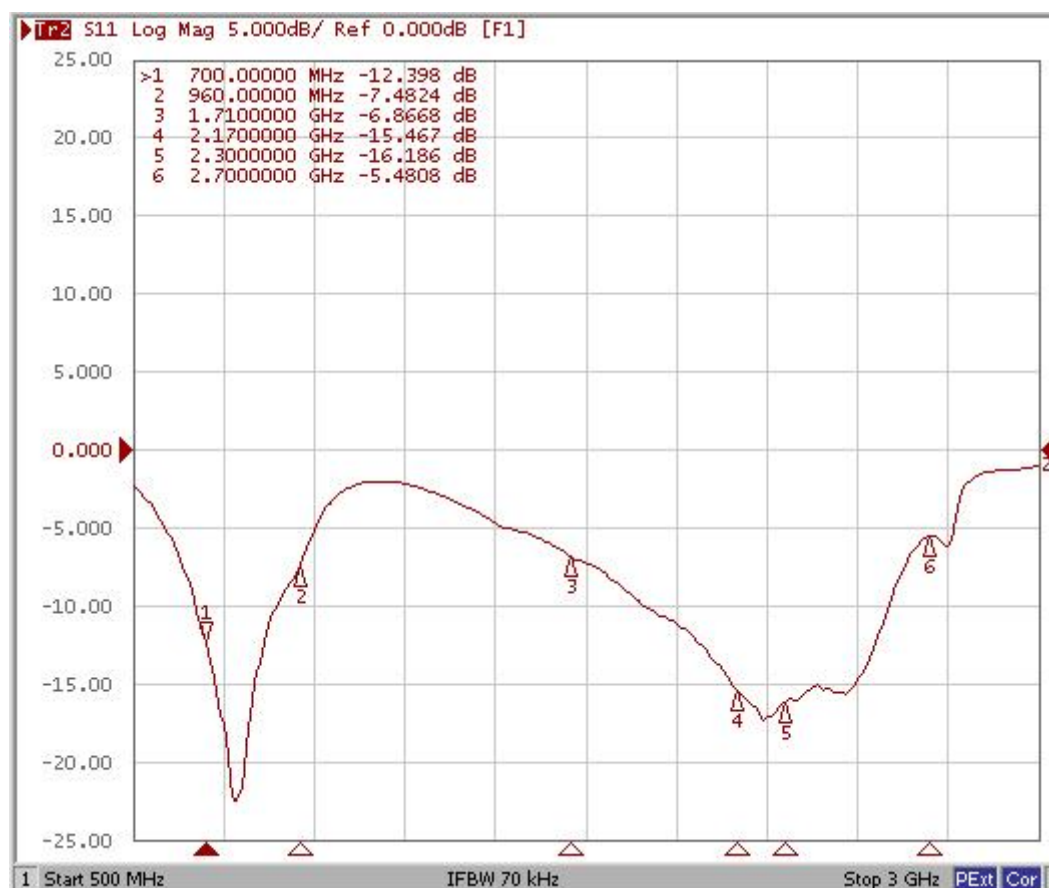
Main product technical specifications	
Design Specifications	Typical
Antenna type	External antenna connector type
Working frequency	700-2700MHz
Peak Gain	4.43dBi
Average efficiency	44.69%
Voltage Standing Wave Ratio (VSWR)	< 3.5
Polarization Method (Polarization)	linear polarization
Axial Ratio	\
Radiation pattern	omnidirectional
Impedance	50 ohm
Power handling	1W
Antenna Interface	\
Antenna dimensions (Overall dimensions)	Φ13*154mm
Operating Temperature (Operating Temp)	-40°C~+70°C
Storage Temperature	-40°C~+70°C
Ingress Protection	IP66
Salt spray	168H

2.Final design drawing:



3. Test Report:

3.1: Network Analyzer Test Parameters

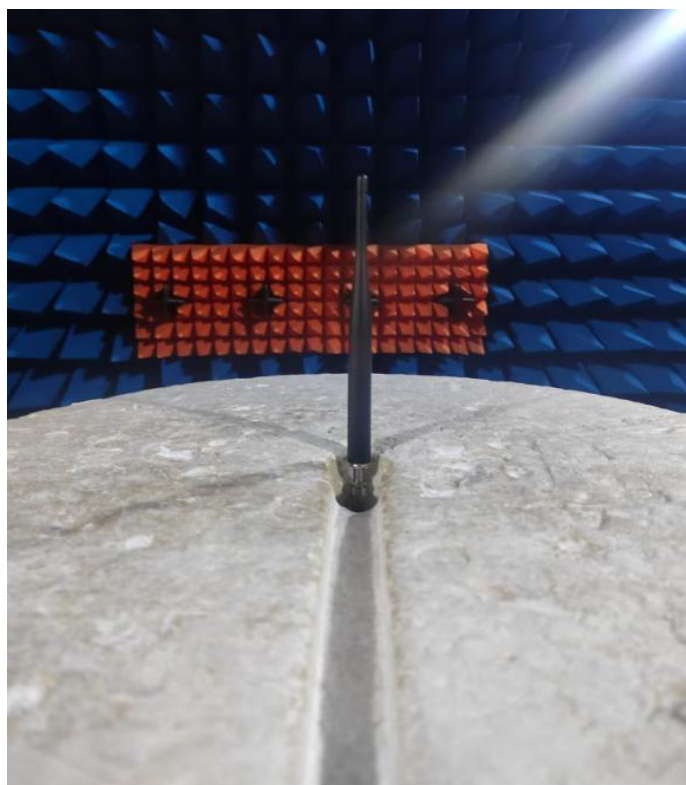
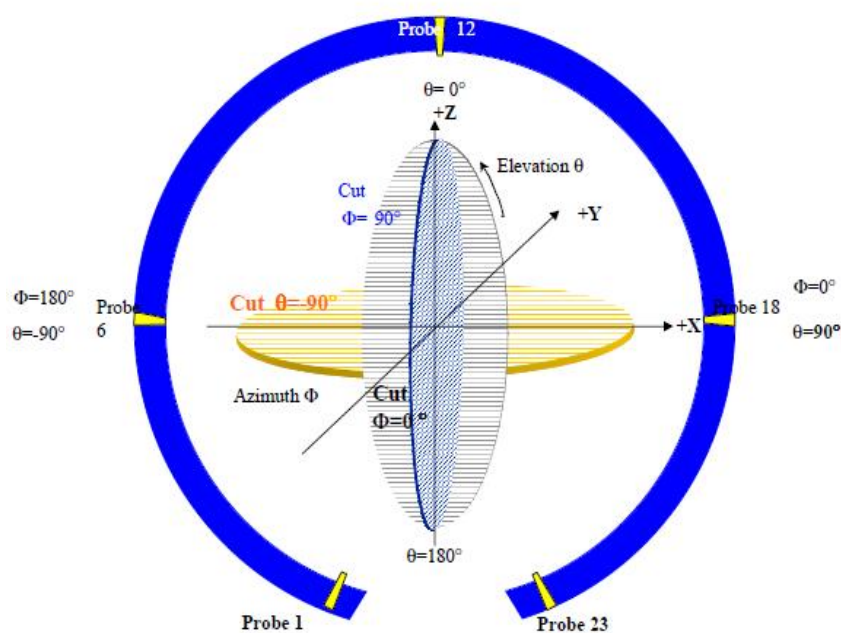


3.2: Passive test data

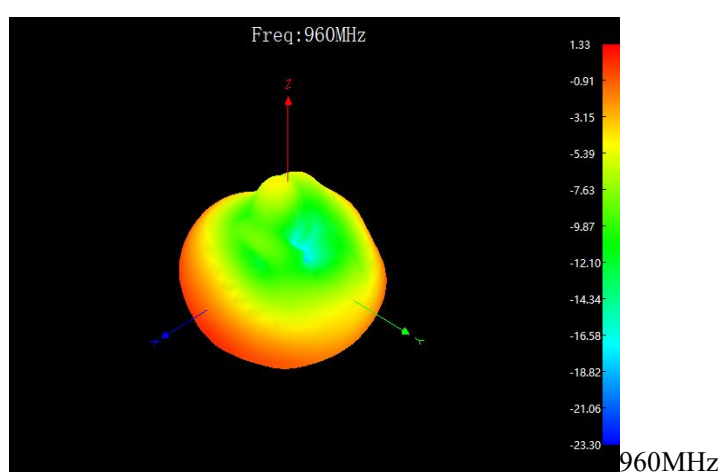
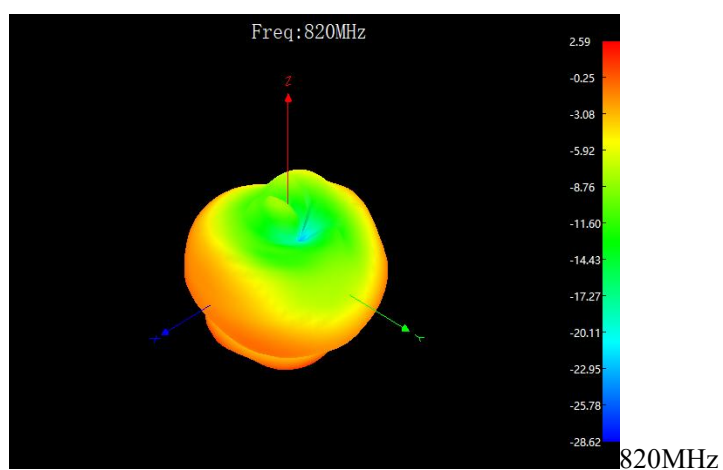
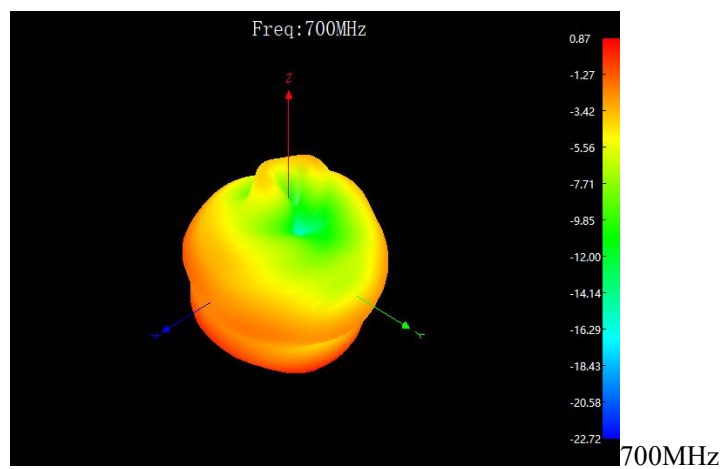
Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
700	-3.82	41.5	0.87
720	-3.87	41.02	1.4
740	-3.76	42.07	1.87
760	-3.9	40.74	1.85
780	-3.42	45.5	2.65
800	-3.23	47.53	2.88
820	-3.17	48.19	2.59
840	-3.55	44.16	1.62
860	-3.67	42.95	1.96
880	-4.09	38.99	1.07
900	-4.17	38.28	1.56
920	-4.16	38.37	1.06
940	-4.98	31.77	1.12
960	-5	31.62	1.33
1710	-4.47	35.73	2.64
1750	-4.28	37.33	1.63
1790	-3.83	41.4	2.56
1830	-3.88	40.93	2.65
1870	-3.9	40.74	2.41
1910	-3.57	43.95	2.62
1950	-3.12	48.75	3.6
1990	-3.38	45.92	3.79
2030	-3.24	47.42	4.43
2070	-3.26	47.21	4.11

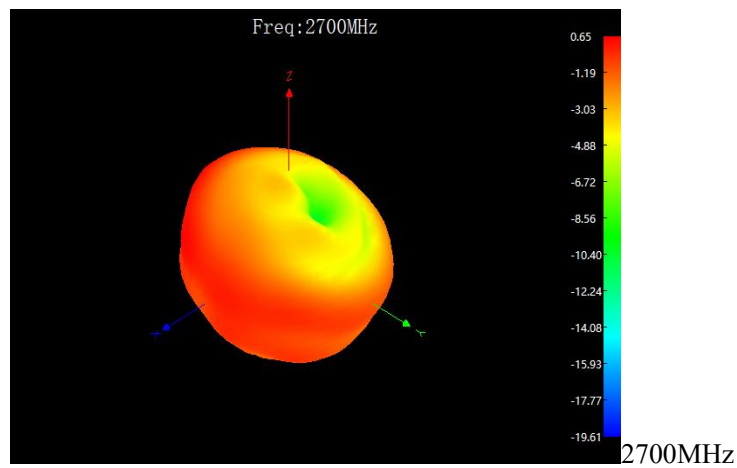
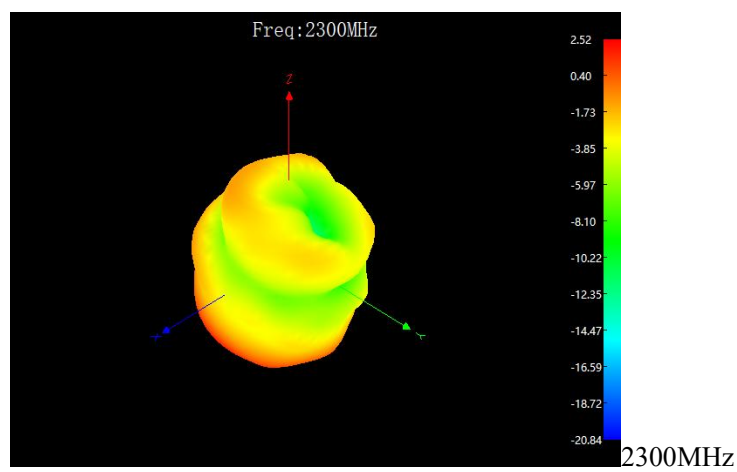
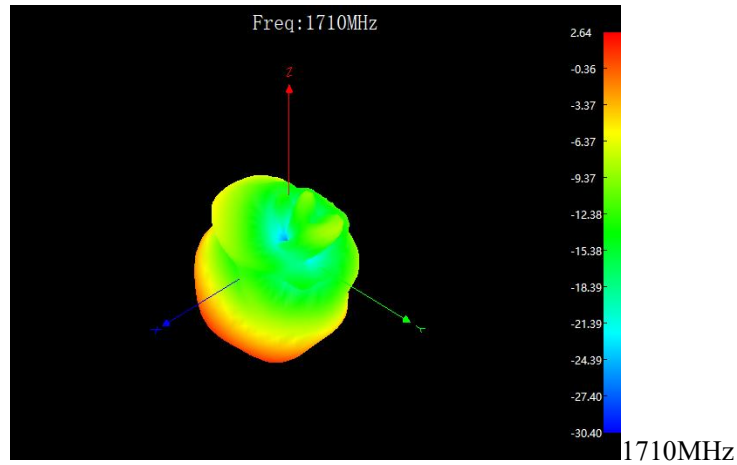
2110	-3.09	49.09	4.35
2150	-2.66	54.2	4.07
2300	-2.27	59.29	2.52
2340	-2.04	62.52	2.59
2380	-2.01	62.95	2.93
2420	-2.4	57.54	2.99
2460	-2.81	52.36	3.15
2500	-3.47	44.98	2.96
2540	-3.92	40.55	2.75
2580	-4.05	39.36	2
2620	-3.83	41.4	1.28
2660	-3.46	45.08	1.18
2700	-3.74	42.27	0.65

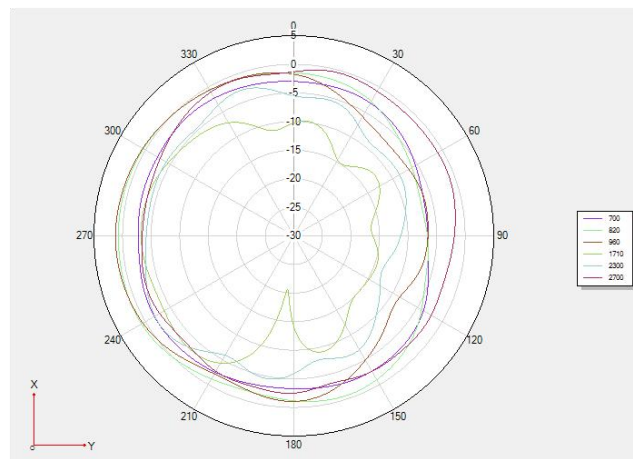
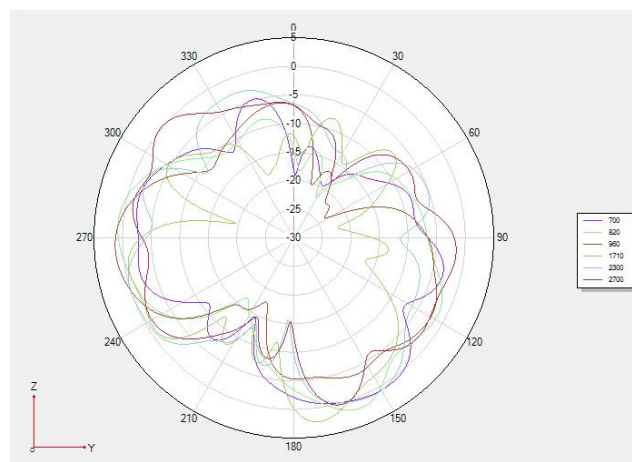
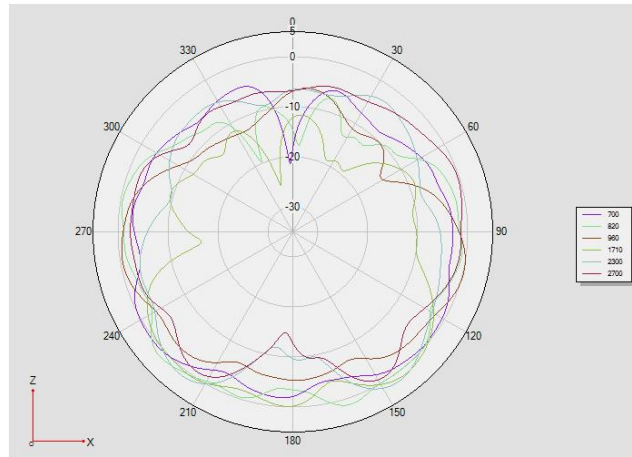
Darkroom Coordinates



3.3: Darkroom 2D,3D Radiation Pattern







4. Physical antenna diagram

