

SPECIFICATION FOR APPROVAL

Customer: SHENZHEN PROITAV TECHNOLOGY CO.,LTD

Part Number: J.03.00NRNK2000

Specification: ***2.4G/5.8G 5dbi Blade antenna***
SMAInternal thread internal hole

Sample No: ***DF-5DBI-SMA-NRNK-200***

Date of issue: 2024-10-15 Part Rev: A.2

Signature

Approved by	Checked by	Compile by
	Qiang. Wang	Lei. Zhang

Customer Approval

Customer Approval	
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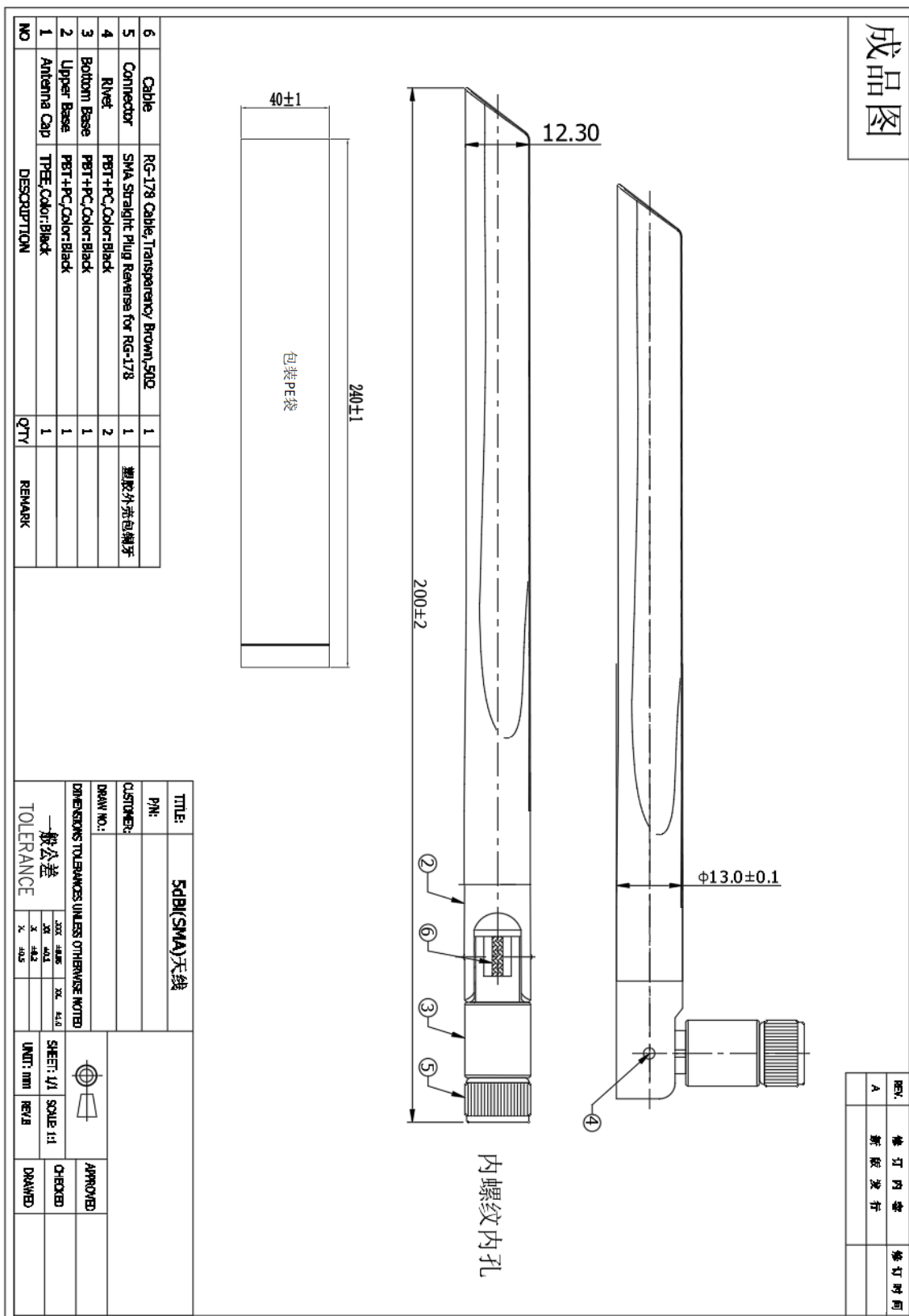
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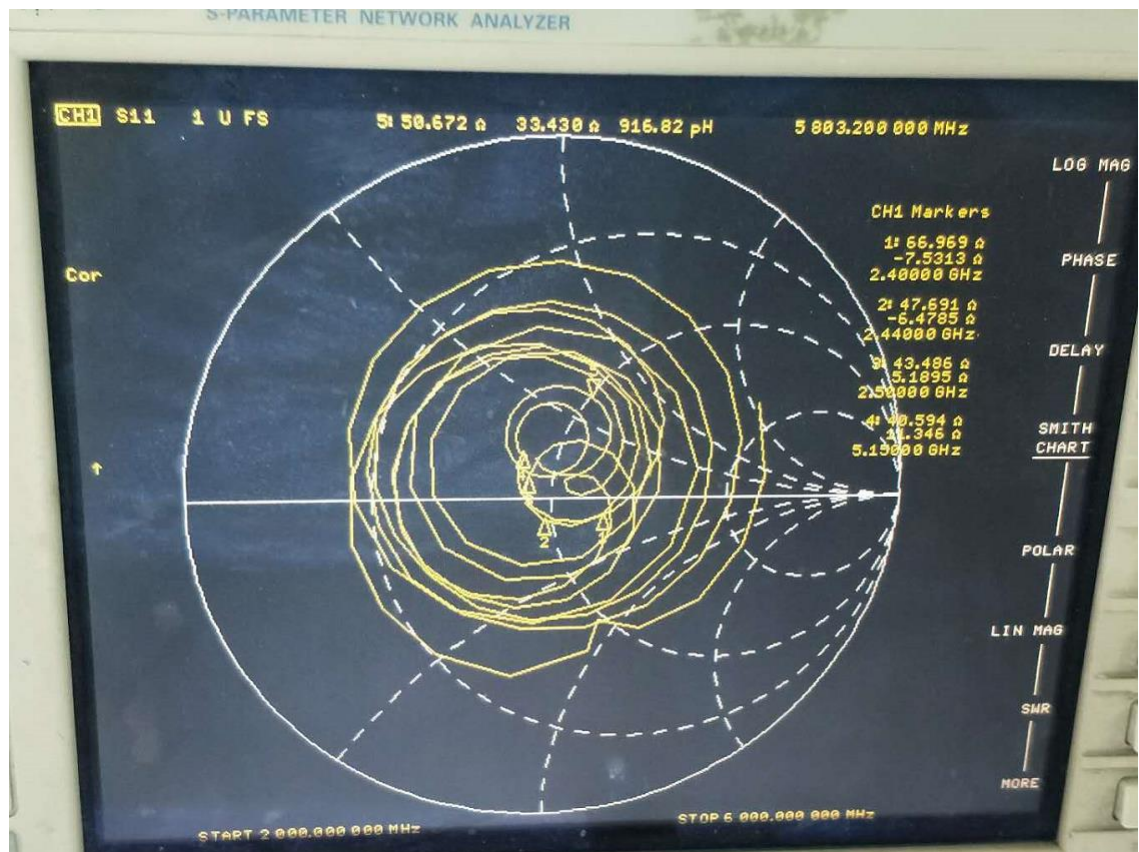
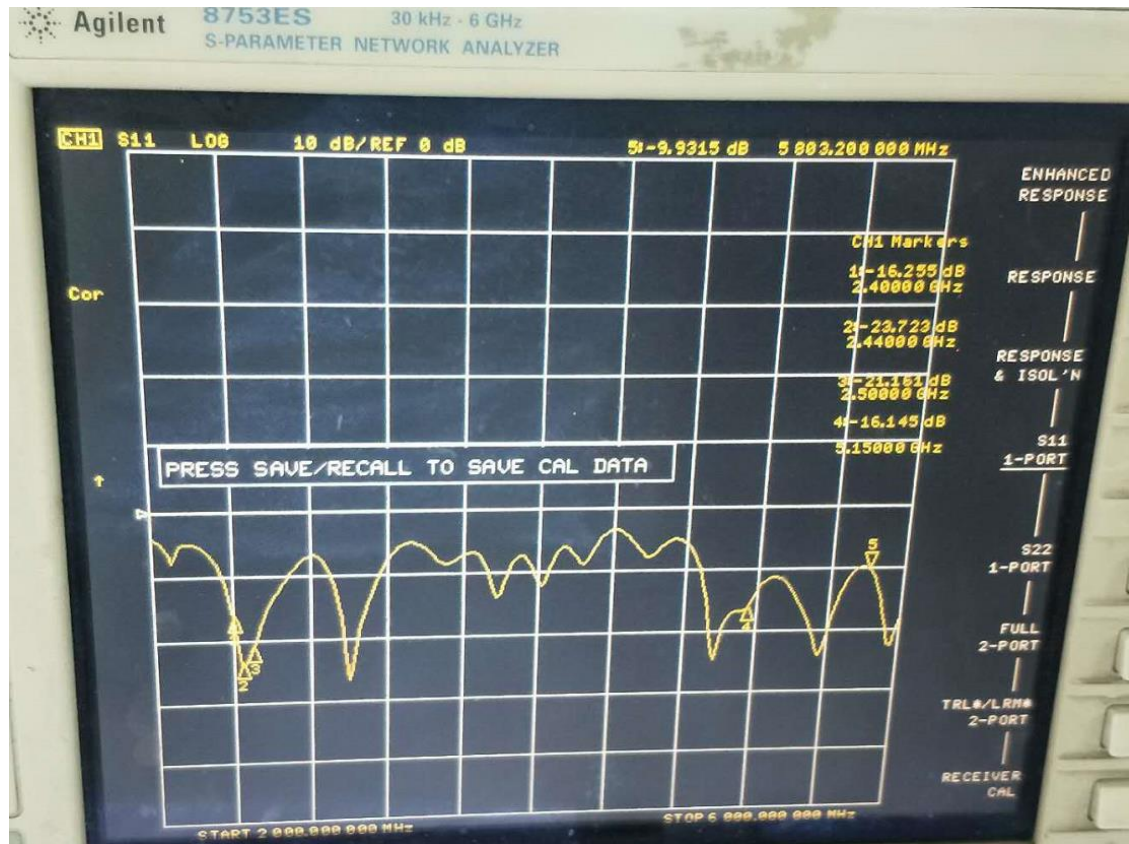
1、PRODUCT TECHNICAL SPECIFICATION

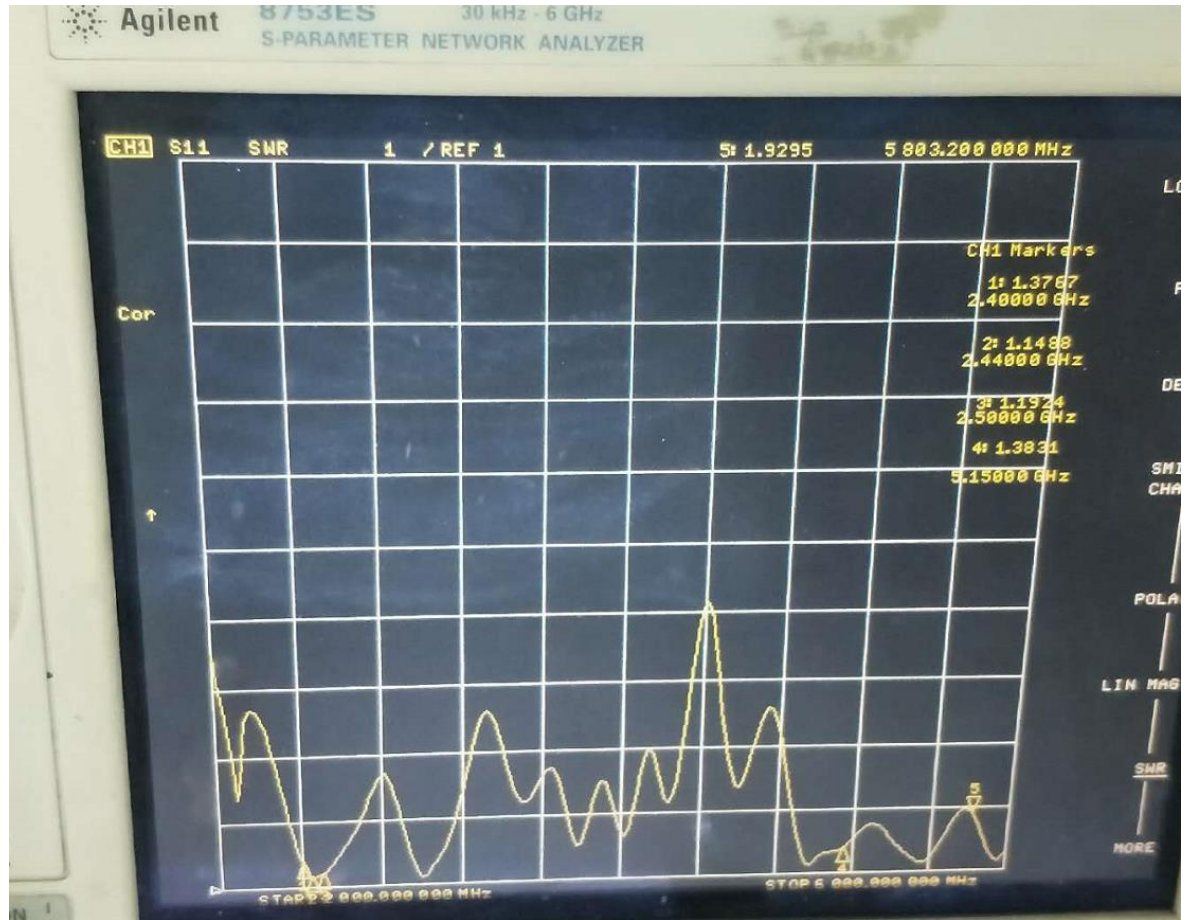
Main Electrical Specifications	
Frequency Range (MHz)	2400MHz-2500MHz 5150MHz-5850MHz
Bandwidth (GHz)	100MHZ/700MHZ
Input Impedence (Ω)	50
V.S.W.R	≤ 3.0
Gain (dBi)	5
Polarization Type	Vertical & Horizontal
Max Power Capacity (w)	50W
Mechanical Specifications	
Antenna Length (mm)	$200 \pm 3\text{mm}$
Material	TPE 、 ABS
Connect Type	SMA Internal thread internal hole
Wire Type	RG178
Radiation Direction	全向 Omnidirectional
Working Temp($^{\circ}\text{C}$)	-40~85 $^{\circ}\text{C}$
Storage Temperature($^{\circ}\text{C}$)	-40~100 $^{\circ}\text{C}$
Mounting	Nut joint fixation

2. PRODUCT SPECIFICATION CHA



3、Electrical Test Report





S11 Parameter
VSWR

Freq/GHz	2400	2440	2500	5150	5800
VSWR	1.37	1.14	1.19	1.38	1.92

4. Antenna efficiency & Gain

Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2350	1.77	-2.74	53.24
2360	1.95	-2.6	55.01
2370	2.12	-2.47	56.59
2380	2.46	-2.19	60.45
2390	2.72	-2	63.09
2400	2.93	-1.91	64.37
2410	3.19	-1.77	66.47
2420	3.34	-1.66	68.22
2430	3.4	-1.65	68.44
2440	3.78	-1.59	69.33
2450	4.24	-1.43	72
2460	4.3	-1.31	74.03
2470	4.36	-1.13	77.01
2480	4.29	-0.97	79.95
2490	4.12	-0.9	81.37
2500	4.09	-0.86	82.04
2510	4.24	-0.76	83.9
2520	4.44	-0.63	86.46
2530	4.55	-0.63	86.41
2540	4.49	-0.62	86.75
2550	4.62	-0.61	86.93

Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
5100	4.31	-0.97	79.92
5120	4.37	-0.97	80.02
5140	3.68	-1.19	76.01
5160	3.36	-1.26	74.8
5180	2.94	-1.37	72.95
5200	2.79	-1.47	71.32
5220	2.74	-1.43	71.98
5240	2.87	-1.4	72.52
5260	2.79	-1.45	71.63
5280	2.56	-1.41	72.24
5300	2.79	-1.32	73.75
5320	3.12	-1.28	74.41
5340	3.4	-1.24	75.1
5360	3.9	-1.24	75.19
5380	4.35	-1.22	75.5
5400	4.83	-0.92	80.99
5420	4.81	-1.13	77.05
5440	4.55	-1.37	73
5460	4.7	-1.48	71.17
5480	4.78	-1.62	68.9
5500	4.83	-1.75	66.78
5520	5.1	-1.78	66.39
5540	4.88	-1.85	65.27
5560	5.09	-1.65	68.35
5580	4.74	-1.72	67.27
5600	4.42	-1.86	65.21
5620	4.24	-1.82	65.72
5640	4.14	-1.74	67.04
5660	4.04	-1.68	68
5680	3.83	-1.63	68.65
5700	3.45	-1.61	69.09
5720	3.34	-1.64	68.48
5740	3.17	-1.46	71.43
5760	3.08	-1.52	70.53
5780	2.97	-1.53	70.32
5800	2.64	-1.47	71.29
5820	2.67	-1.23	75.32
5840	3.09	-1.2	75.81
5860	3.54	-1.18	76.16
5880	3.68	-1.3	74.09
5900	3.61	-1.34	73.43