

Antenna Specification

Supplier: Shanghai Deshiqin

Parts Name: D0812-WIFI

Type/Spec: D0812

Parts No: DSQ-D0812-WiFi -V4.0

Brand: DSQ

Quantity:

Send out Date: 2025/06/10

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Approve Date:

Version: V4.0

Supplier		Customer	
Approved By	Prepared By	Engineering Dept	Quality Dept

Contact: Room 605/607, Building 51, Hongqin Garden, North Qinzhou Road, Xuhui District, Shanghai

Email: zp@deshiqin.com

Tel: 13008826547

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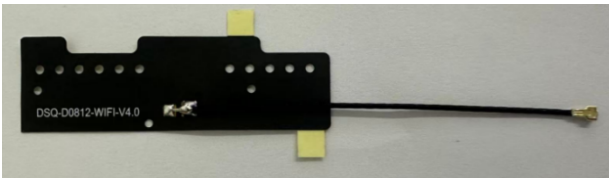
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一.Sample picture and description:

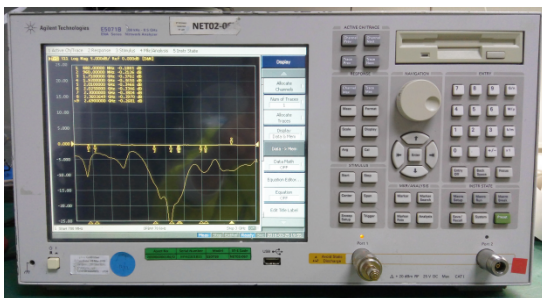
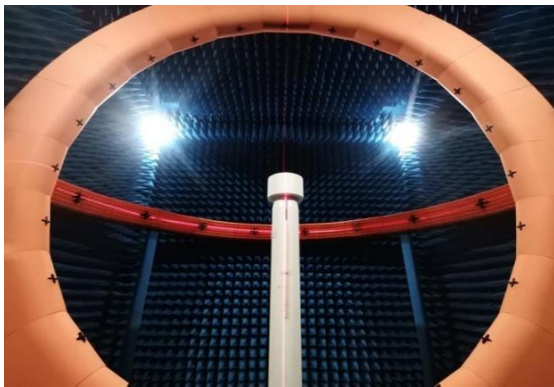
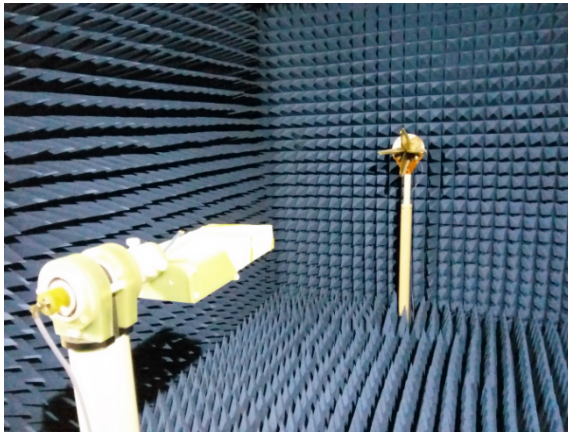


Electrical Specifications	
Frequency range	2400 MHz -2500 MHz 5150 MHz -5850MHz
impedance	50 Ω
VSWR	<2.2
Gain	2.31dBi
Polarization	vertical
Radiation direction	Omnidirectional
Connection Mode Description	
connector	Cable IPEX4
Working/Storage temperature	
Working temperature	-30℃ ~65℃
Storage temperature	-30℃ ~75℃

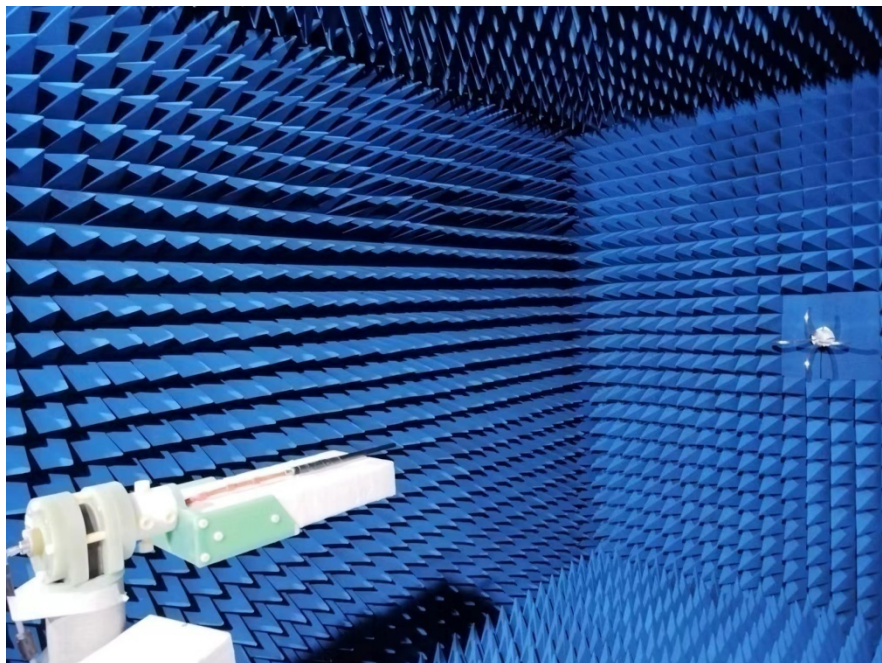
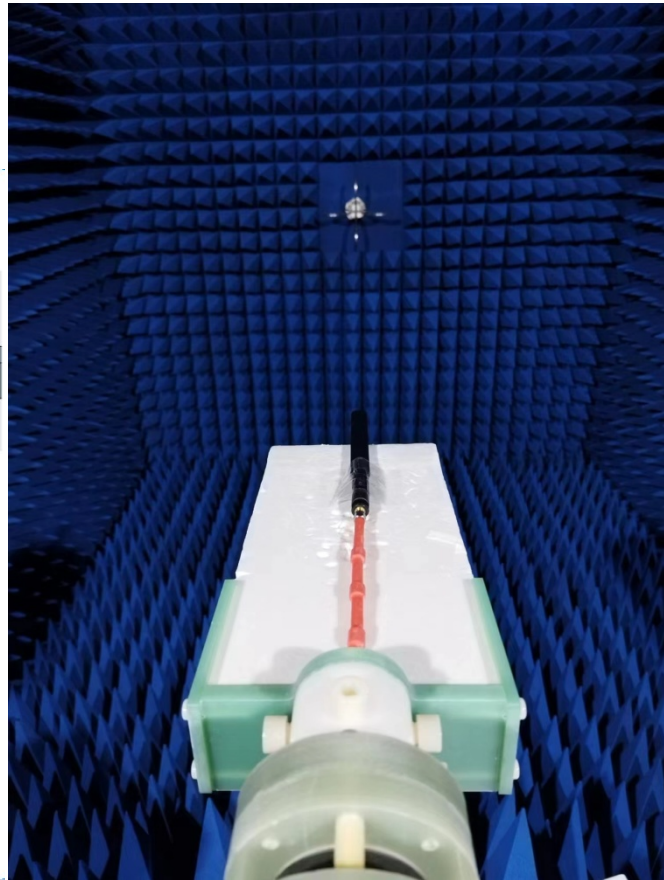
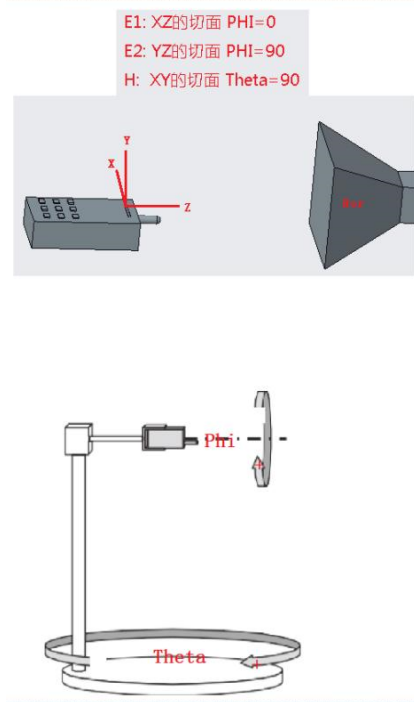
二. Test equipment and items:

Class	Test item	Equipment
1. Sparameter	1. RL 2. VSWR 3. Smith chart	VNA: Agilent E5071B R&S ZVB8 Protek A333
2. Coupling testing	1. MAX Power 2. MIN Sens	1. 2G/3G Tester: Agilent 8960 2. The coupling box: TESCOM TC-5060A 3. 3D Chamber: ETS3D Chamber (5x3x3)
3. Passive Test	1. Efficiency 2. Gain 3. Radiation pattern	1. 3D Chamber: TEM24 3D Chamber (5x5x5) ETS3D Chamber (5x3x3) 2. VNA: Agilent E5071B R&S ZVB8
4. Active Test	1. TRP 2. TIS 3. Throughput rate	1. 3D Chamber: TEM24 3D Chamber (5x5x5) ETS3D Chamber (5x3x3) 2. 2G/3G Tester: Agilent 8960 3. 4G Tester: MT8820C/CMW500 4. WIFI/BT/NB-iot Tester: CMW500 5. 5G Tester: SP9500-CTS 6. Head: HEAD-P10 (FACE-P10)

DSQ TECHNOLOGY



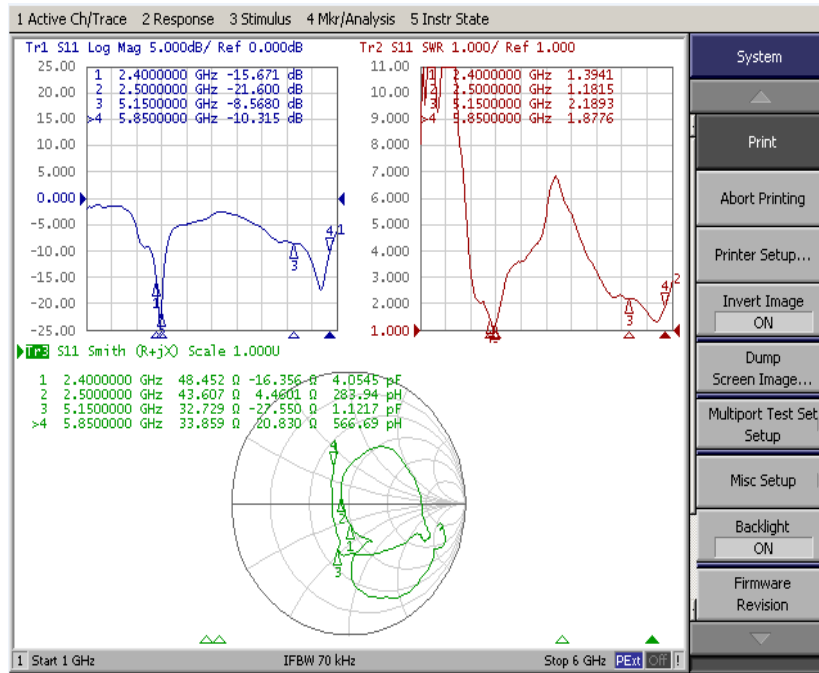
三. Chamber connection and coordinates :



四. Antenna electrical performance test data.

4. 1. Antenna passive parameters

S11



Efficiency/Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	55.19	-2.58	1.9
2410	52.06	-2.83	1.98
2420	53.25	-2.74	1.89
2430	56.3	-2.5	1.92
2440	53.42	-2.72	2.31
2450	57.03	-2.44	2.11
2460	53.29	-2.73	2.15
2470	50.7	-2.95	1.94
2480	54.63	-2.63	1.8
2490	54.97	-2.6	1.91
2500	54.6	-2.63	1.68
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	40.12	-3.96	1.79
5200	41.44	-3.81	1.95
5250	41.5	-3.83	1.1
5300	42.41	-3.73	1.31
5350	43.44	-3.62	1.25
5400	44.83	-3.48	1.92
5450	54.51	-2.63	1.13
5500	47.56	-3.23	1.43
5550	50.49	-2.97	1.24
5600	48.25	-3.16	1.18
5650	54.8	-2.61	1.45
5700	54.71	-2.62	1.93
5750	48.32	-3.16	1.86
5800	42.32	-3.72	1.48
5850	41.48	-3.82	1.61

六.Dimension Inspection Report

Dimension Inspection Report

Customer: Xiangcheng

Item No.: D0812

Material: FPC

☒ Environmental Friendly Material ☐ Non-Environmental Friendly Material

Visual Inspection Items

☐ Paint Leakage ☒ Broken Line ☒ Short Circuit ☒ Scratch ☒ Stain ☒ Crack

Number of Defects: 0

Visual Result:

☐ Minor ☒ Severe ☒ Fatal☒ Qualified ☒ Unqualified

No.	Inspection Standard	SPC Position		SPC Position			Test Instrument	Judgment	
			1	2	4	5			
	14.25±0.15	A	14.30	14.25	14.20	14.30	14.25	DN	OK
	46.39±0.15	B	46.40	46.35	46.45	46.30	46.35	DN	OK
	46.39±0.15	B	46.40	46.35	46.45	46.30	46.35	DN	OK
	52.00±0.20	C	52.05	52.10	52.00	52.05	52.10	DN	OK

FPC + Coaxial Cable

Overall Judgment

☒ Qualified ☒ Unqualified

Non-conformity Handling

☒ Rework ☒ Special Use

Instrument Code Explanation

PP=Projector PG=Gauge HG=Height Gauge AG=Angle Gauge

N=Vernier Caliper DN=Digital Vernier Caliper M=Micrometer 3D=CMM

SG=Thread Gauge SE=Fixture E=Visual

Remarks

Inspector: Yang Teng