

SPECIFICATION FOR APPROVAL

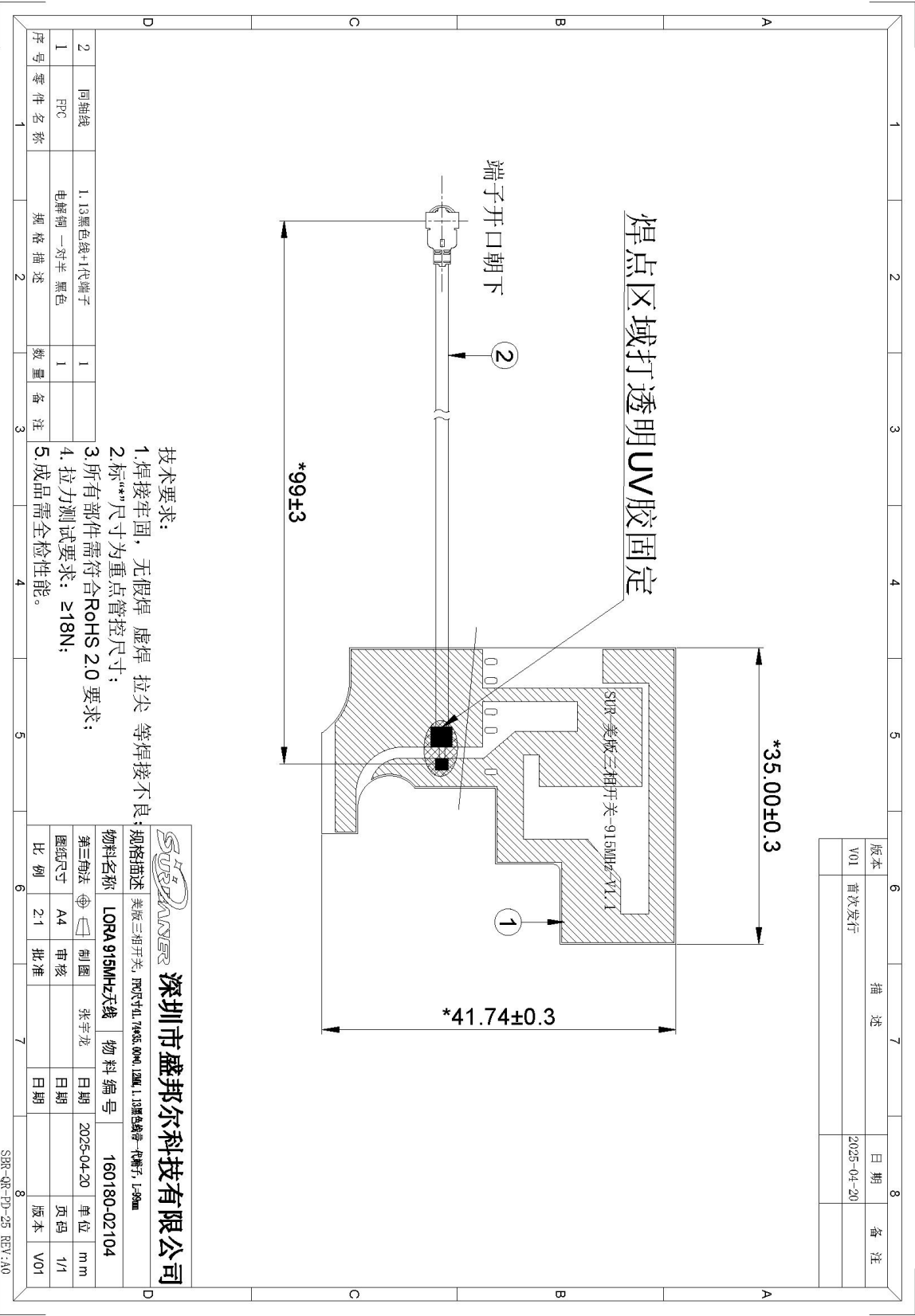
Customer Name	Deye		
Customer Project Name	Smart Switch	Surbaner P/N	160180-02104
Customer P/N	30221700000159	Working Band	915-928MHz
Product description	FPC/41.74*35.00*0.12MM/1.13		

地址：深圳市宝安区航城街道宝星智荟城8栋1楼103-107号 TEL: 0755-82790675 FAX: 0755-82809726

Address: No. 103-107, Building 8, Baosheng Zhihui City, Hangcheng Street, Bao'an District, Shenzhen City

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一. Drawing or Product Image



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二. Technical Parameter

1. Antenna		
No/序号	Part Name	SPEC
1	Frequency Range	915-928MHz
2	Impendence	50 ohm nominal
3	Gain	$\geq -0.5\text{dBi}$
4	Polarization	LINE
5	VSWR	< 2.5
6	Efficiency	$\geq 25\%$ AVG
7	RF Cable	1.13 / 99MM
8	RF Connector	IPCE
2. Environmental Characteristics		
No/序号	Part Name	SPEC
1	Operation Humidity	5~95%
2	Operating Temperature	$-20 \sim +60^{\circ}\text{C}$
3	Store Temperatuer	$-30 \sim +70^{\circ}\text{C}$

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RF Performance Test Report

Customer Name	Deye	Project Name	Smart Switch	Surbaner P/N	160180-02104
Band	915-928MHz	Test Date	2026/04/23	Inspector	吴贤坤

Antenna Test Equipment Introduction

Test of antenna input characteristics using **Agilent E5071C** and **Agilent 5062A** vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

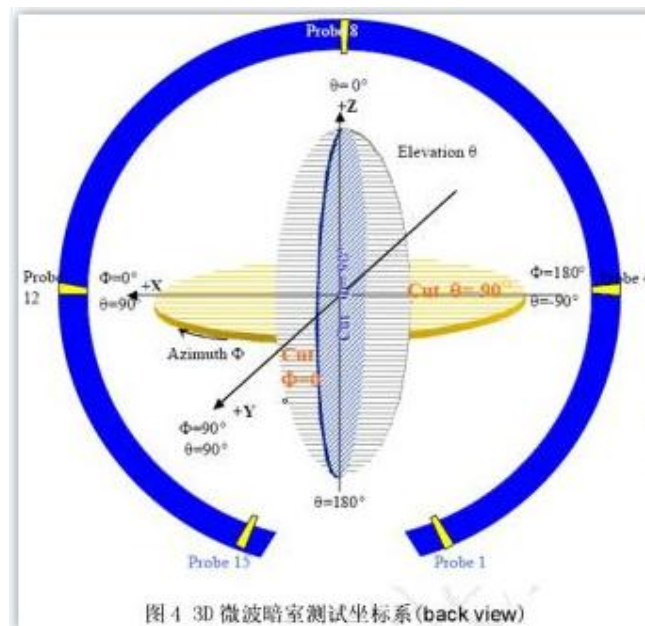


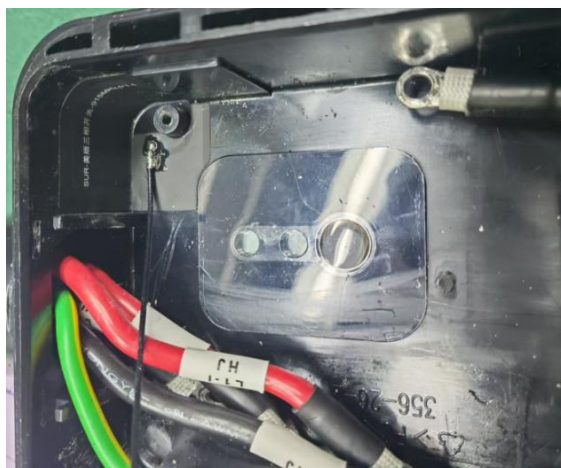
图4 3D 微波暗室测试坐标系 (back view)

1. S11 Parameter-VSWR

Measuring Method is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.

2. Product Overview & Environmental Treatment

ANT



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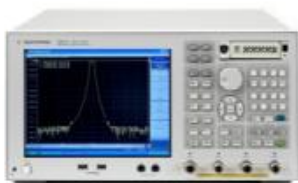
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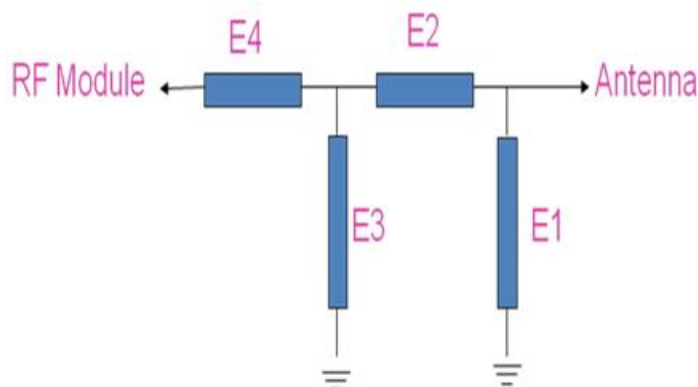
FM: SBR-QR-RD-37 REV: A2

Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C



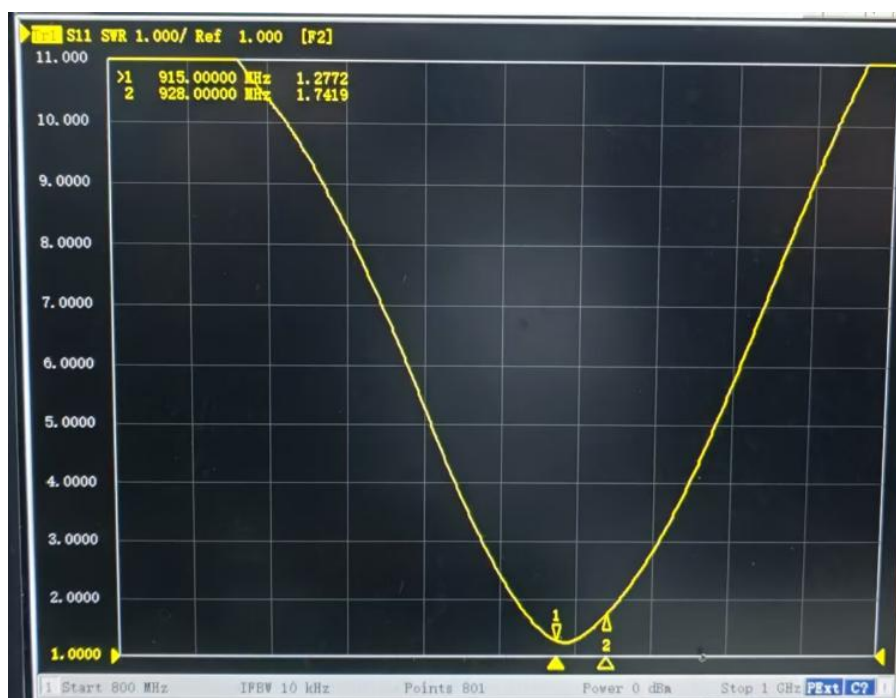
Antenna MatchingNetwork



Element	Capacitor	Inductor
E1	N/A	N/A
E2	N/A	N/A
E3	N/A	N/A
E4	N/A	N/A

PCB 板端原始匹配未改动

S11 Parameter-S11



Frequency	915	928
VSWR	1.27	1.74

Gain & Efficiency

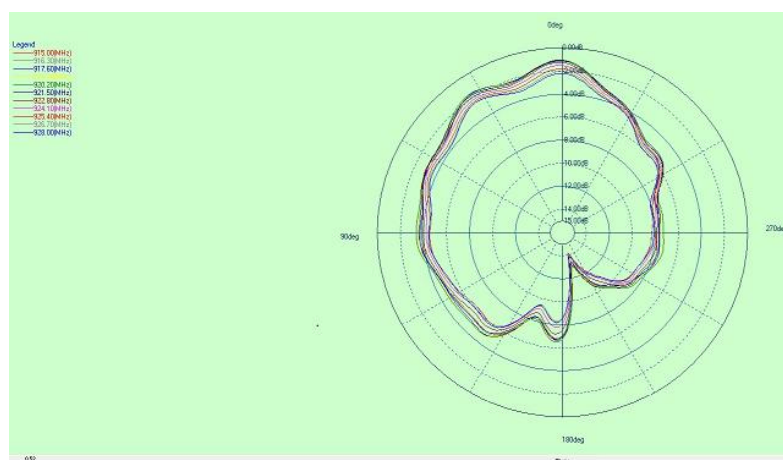
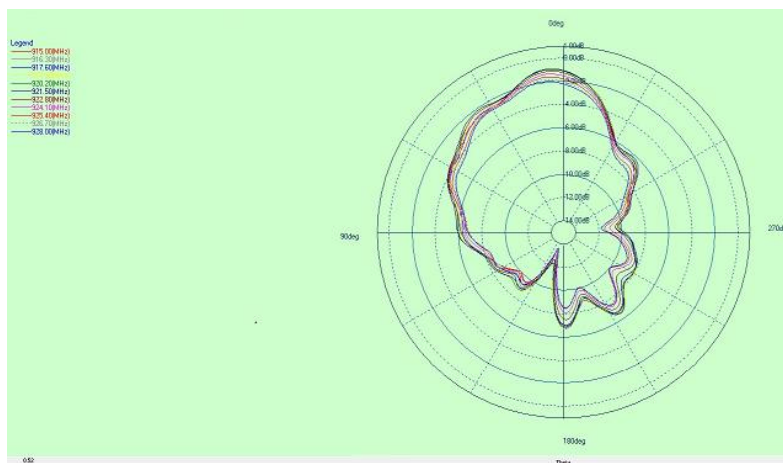
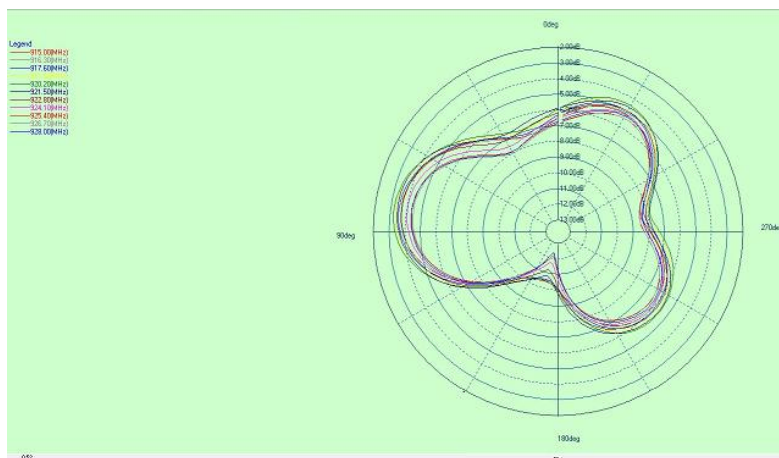
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
915	30.36	-0.10
917	30.87	-0.13
919	30.98	-0.19
921	30.76	-0.20
923	30.23	-0.13
925	30.12	-0.06
926	30.10	-0.05
927	30.05	-0.03
928	30.00	-0.01

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2D Pattern



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