上海增信电子有限公司
Signal Plus Technology Co., Ltd.

规 格 承 认 书
SPECIFICATION FOR APPROVAL

日期
DATE: 2024.08.20

版本
REV.: A

客　　户
CUSTOMER: SingularXYZ Intelligent Technology Ltd.

客 户 料 号
CUSTOMER P/N:

品　　名
PART NAME: 410-470MHZ flexible plastic radio antenna

供 方 料 号
SUPPLIER P/N: 6306F00006

送样日期Date:　　送样数量Q'TY: Pcs

客户确认CUSTOMER APPROVED BY		
核准 Approvaled by	审核 Checked by	确认 Confirmed by

供方确认SUPPLIER SIGNATURE		
核准 Approvaled by	审核 Checked by	拟制 Prepared by
Andy		Cindy

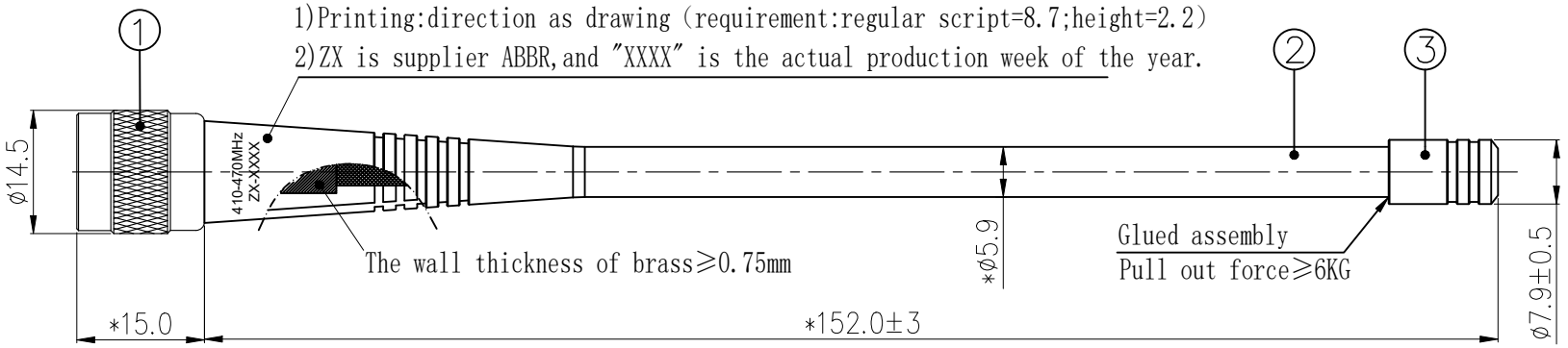
Contents

REV	DATE	DESCRIPTION
X1	06/14-2022	New Issue
X2	08/02-2022	Add characters mark
X3	08/03-2022	Add packaged description

Note:

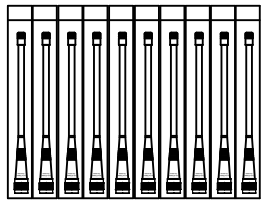
1)Printing:direction as drawing (requirement:regular script=8.7;height=2.2)

2)ZX is supplier ABBR,and "XXXX" is the actual production week of the year.



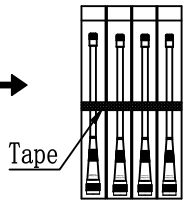
Packaging description:

1)Packing in lattice-bag



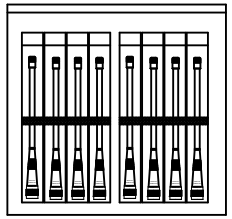
Quantity:10 pcs

2)Fixed with tape



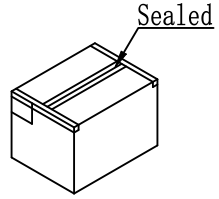
Quantity:10 pcs

3)Packed with PE bag,and label



Quantity:50 pcs

4)Packed in carton,and label



Carton size:300*260*150mm

Quantity:300 pcs/carton

Specification:

Frequency Range:410~470MHZ

Impendance:50Ω

VSWR:9.0MAX

Gain :-3.33dB

Add glued assembly between the cap and antenna shell,and the pull out force≥6KG;

These Products are in conformity with ROHS 2.0;

Critical To Function Dimension Are Marked With *...

NO	DESCRIPTION		Q'TY	REMARK
3	Cap	Plastic;Black		
2	Antenna shell	TPE;Black	1	
1	Connector	TNC,Male;Nickel-Plated	1	

XXX.	±2.0	APPROVED	CUSTOMER:		
XX.	±1.0		PART NO:		
X.	±0.5	CHECKED	PART NAME:	410MHz-470MHz Antenna	
.X	±0.3		Z&X P/NO:	6306F00006	
.XX	±0.2	DRAWING	REV	UNIT	FILE:
		steven	X3	mm	SHEET: 1/1

CUSTOMER'S SIGNATURE

上海增信电子有限公司
Signal Plus Technology Co.,Ltd.

上海增信电子有限公司
Signal Plus Technology Co., Ltd.

Antenna Test Report

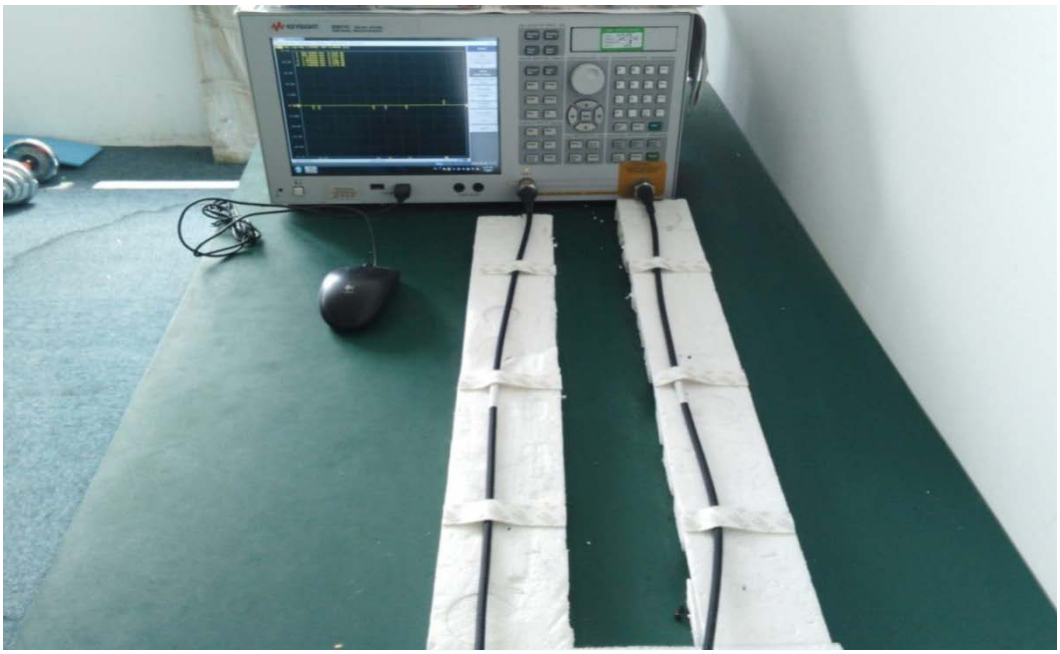
Tel:021-54266190 Fax:021-54266191 Web:www.zxsignal.com

1. RF Fixture Experiment

1.1 Test Setup

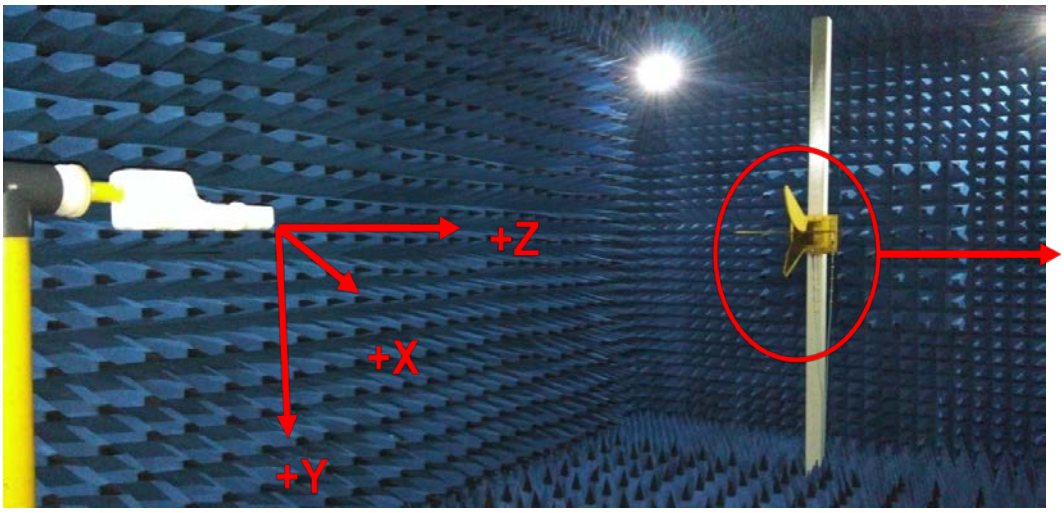
1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S11) were performed using an KeySight E5071C Network Analyzer. The isolation between antennas is also tested. The testing was performed with apparatus in free space.

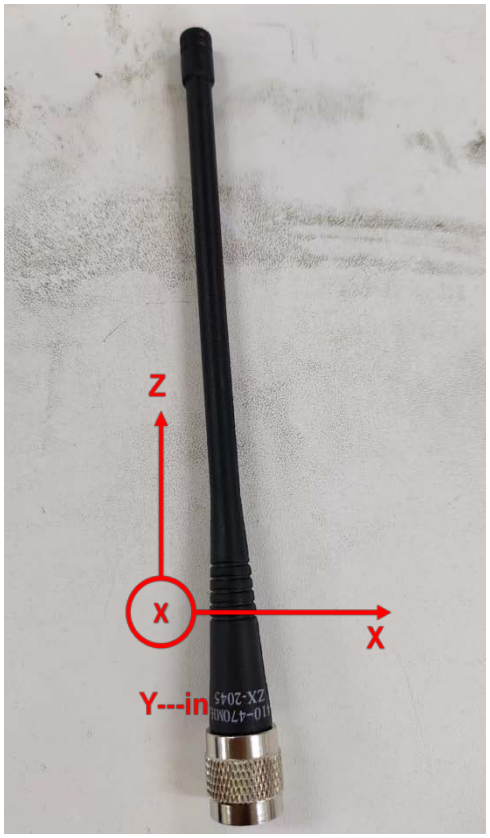


1.1.2 Anechoic Chamber Test Setup

The gain of the antenna was measured in the anechoic chamber.
The chamber provides less than –30 dB reflectivity from 400 MHz through 6 GHz. The chamber size is:7m*4m*3m. The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.

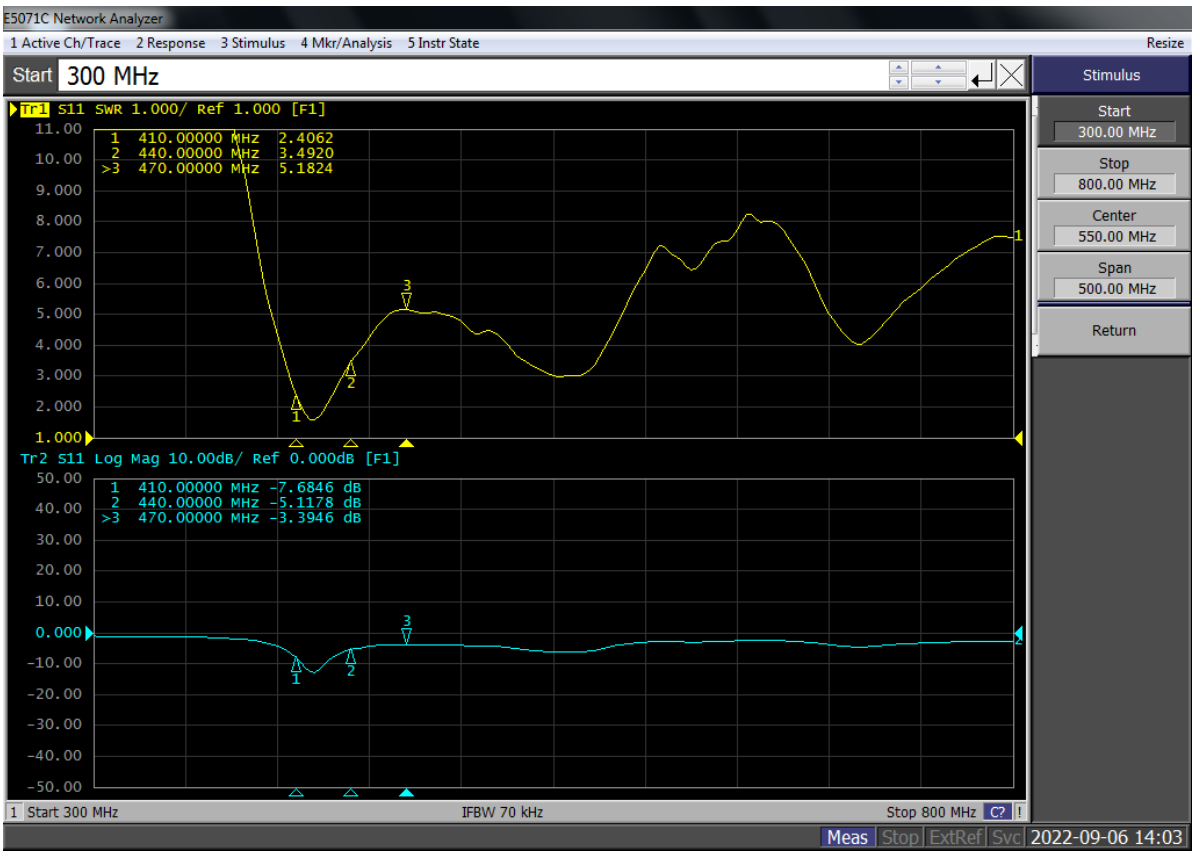


2.Antenna Solution



3.Data Preview

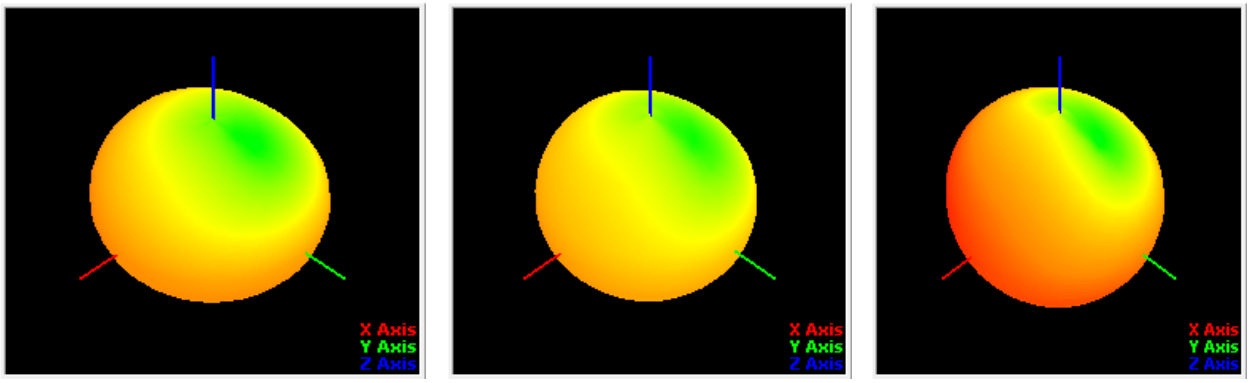
S11



Passive Data:

Freq.(MHz)	410	440	470
Gain(dBi)	-4.46	-4.80	-3.33
Eff.%	21.2	20.1	23.0

Radiation patterns:3D（410/440/470）



Radiation patterns:2D（440MHz）