

1. Antenna Specification/天线标准

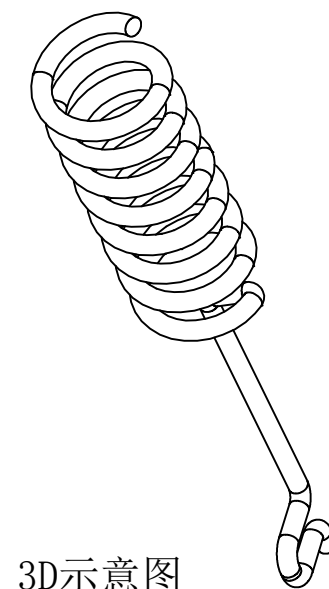
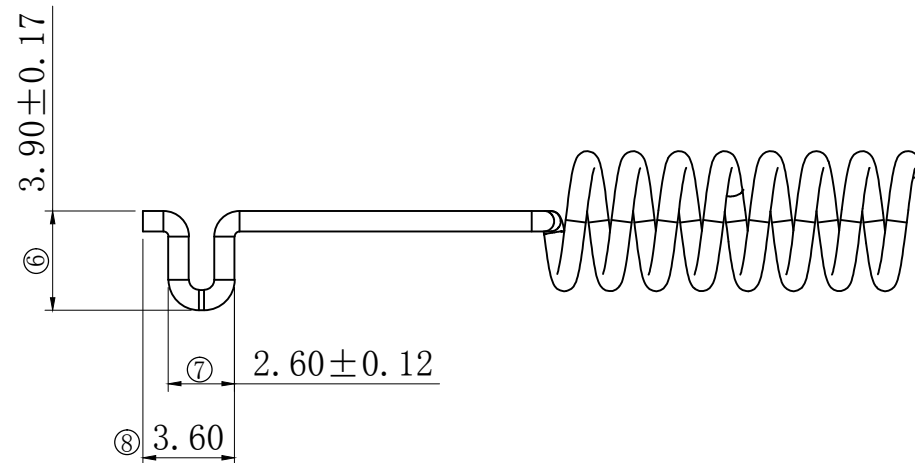
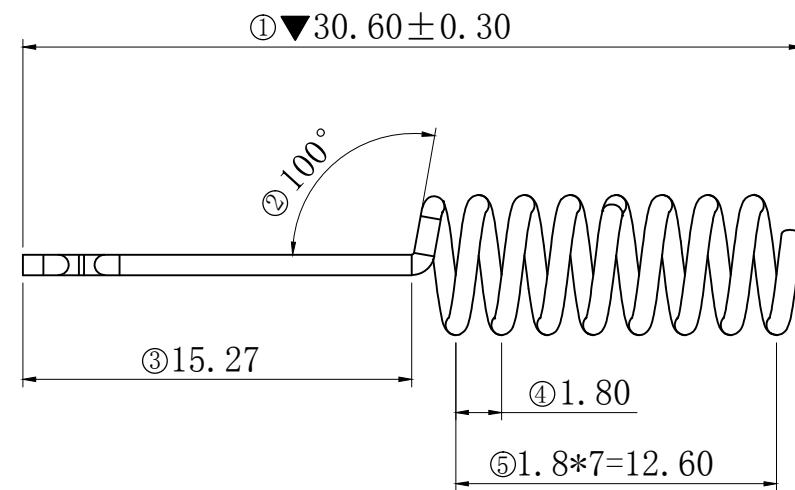
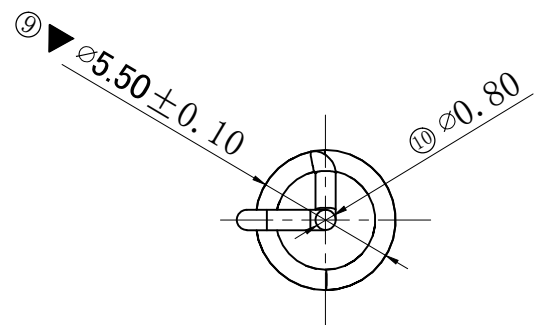
Antenna Specification/天线技术参数		
Electrical Specification/电气特性		
Item/目录	Specification/规格	Comment/备注
Freq. Range/频段范围	902-920(MHz)	
Impedance/阻抗	50 (Ω)	
VSWR/驻波比	902-920 MHz \leq 3.8	
Directional/辐射方向	Omni directional	
Polarization/极化形式	Vertical	
Peak Gain/峰值增益	-1.0 (dBi)	
Test condition/测试条件	passive test (无源测试)	
Total Efficiency/无源效率	> 35%	
Mechanical Specification/机械指标		
Antenna type/天线类型	弹簧天线	
Connector Type/连接器类型	N/A	
RF Cable Type/射频线型号	N/A	
Connector Torque Test/连接器扭力	N/A	
Connector Pull Test/连接器拉力	N/A	
Salt Spray/盐雾测试	48 (H)	
Environmental Specification /环境指标		
Operating temp/工作温度	-40°C ~ +80°C	
Storage temp/存储温度	-40°C ~ +85°C	

2. Antenna Picture/天线图片



海祥规范

REV.	ECN NUMBER	DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
X1	ECN191588	初版发行	04/11, 20	丁第斌	张英杰	牛宝星



3D示意图

NOTES:

1. 材质: 黄铜H65/H62 镀镍, 左旋, 线径0.8mm; 镀层厚度大于40u";
2. 未标尺寸以此电子档实测为准.
3. 标有“▼”为QC重点检测尺寸.
4. 抽检一致性, 抽检比例: 5%;
频率范围: 902-920 MHz,
测试仪器: 网络分析仪;
5. 符合我司可靠性测试、RoHS测试等相关要求.
6. 产品需过中性盐雾测试48H;



ELECTRIC
CONNECTOR
TECHNOLOGY

GENERAL TOLERANCE

X. ± 0.30	XXX. ° ± 5°
. X ± 0.20	XX. ° ± 4°
. XX ± 0.10	X. ° ± 3°

SCALE:

1:1

DRAWN: 丁第斌

DATE: 04/11'20

DWG. NO:

600-U279-01

TITLE:

ANT_IN_902_OD0.8*29.15_cu
spring_Token

REV.

X1

UNIT:

mm

CHECK:

DATE:

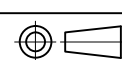
PARTS NO. (INTENDED USE):

81800U279

SHEET:

1/1

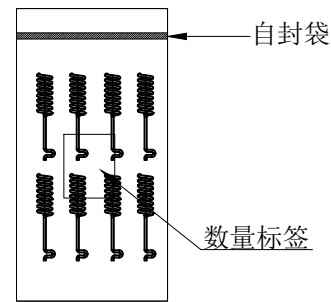
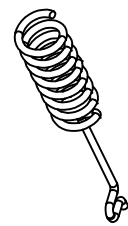
SIZE: A4



APPROVE:

DATE:

Rev.	ECN Number	Description	Date	Drawn	Checkd	Approved
X1	ECN191588	初版发行	04/11'20	丁第斌	张英杰	牛宝星



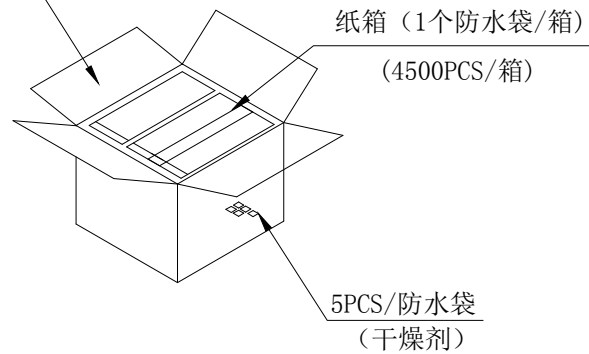
300pcs/袋

NOTES:

1. 包装时产品轻拿轻放, 避免产品变形.
2. 整袋包装好后, 检查是否有漏装, 产品的放置方向是否正确.
3. 若有未装满之零数箱, 须以缓冲材塞满.
4. 检查是否有产品被压死, 检查整摞层数是否正确.
5. 整箱封好后, 检查标签是否贴好, 字迹是否干净、清晰, 标签内容是否正确、完善.
6. 外箱尺寸: 内尺寸L190*W190*L170mm, 五层纸, K=K, 印ECT LOGO

项目	料号	数量	产品包装容量			产品包装重量		
			Pcs/袋	袋/外箱	PCS/外箱	单重(g)	净重(kg)	总重(kg)
外纸箱	840000640	1	300	15	4500			
吸塑盘								
防水袋	840000505	15						
载带								
上带								
三角纸板								
作业标签								
珍珠绵								
透明胶带								

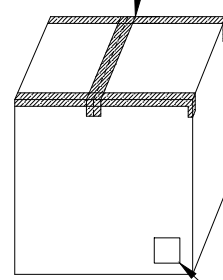
6面各放1块珍珠绵
空余部分用珍珠绵填满



纸箱 (1个防水袋/箱)
(4500PCS/箱)

5PCS/防水袋
(干燥剂)

透明无LOGO封箱胶



长城开发标签



GENERAL TOLERANCE

XX. ±0.40	XXX. ° ±2.0°
X. ±0.25	XX. ° ±1.0°
.X ±0.13	X. ° ±0.5°

SCALE:

1:1

DRAWN

丁第斌

DATE

04/11'20

DWG. NO.

551-U279-01

TITLE

ANT_IN_902_OD0.8*29.15_cu spring_Token
包装规范图

REV.

X1

UNIT:

mm

CHECK

DATE

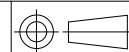
PARTS NO. (INTENDED USE)

81800U279

APPROVE

DATE

SIZE: A4

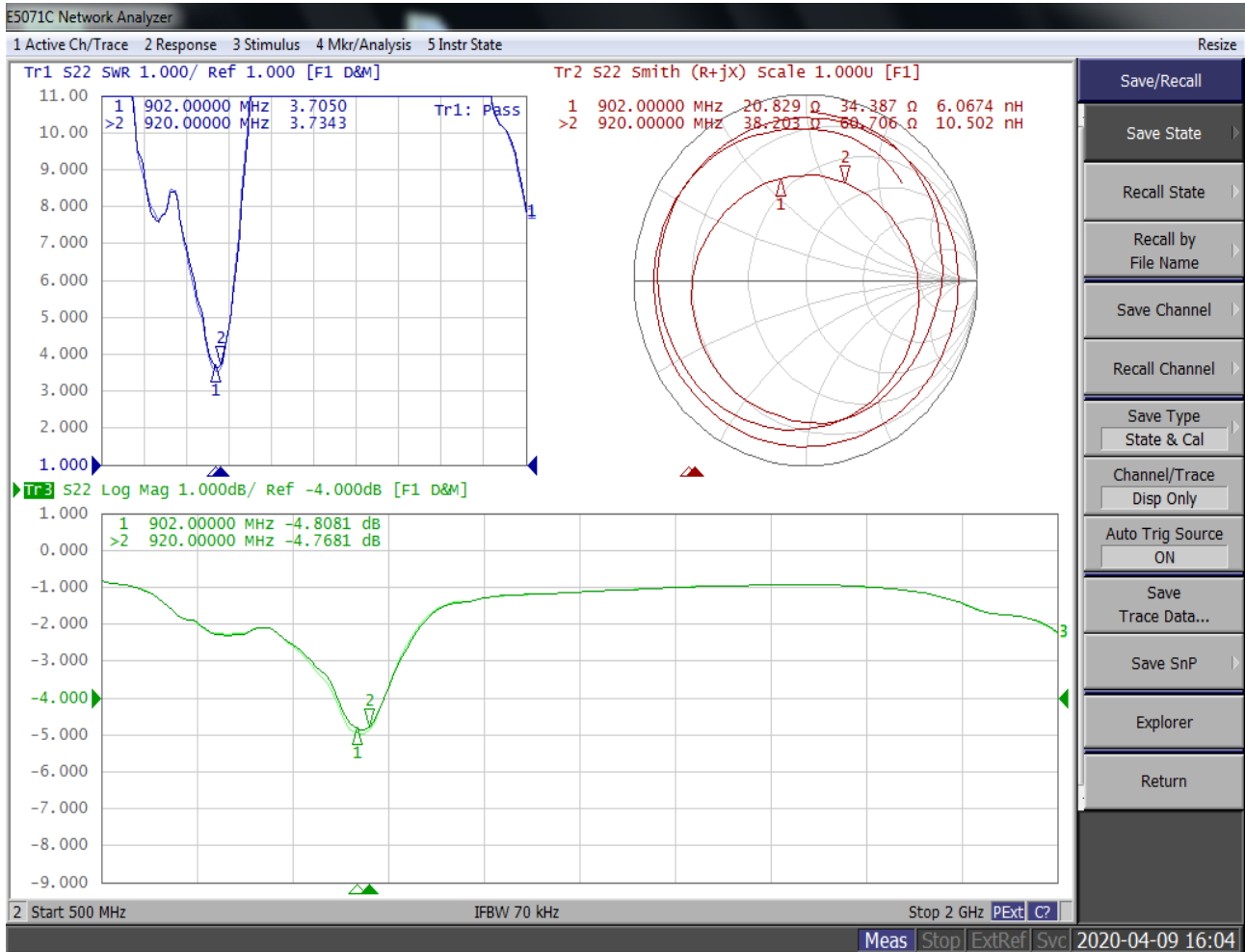


SHEET

1/1

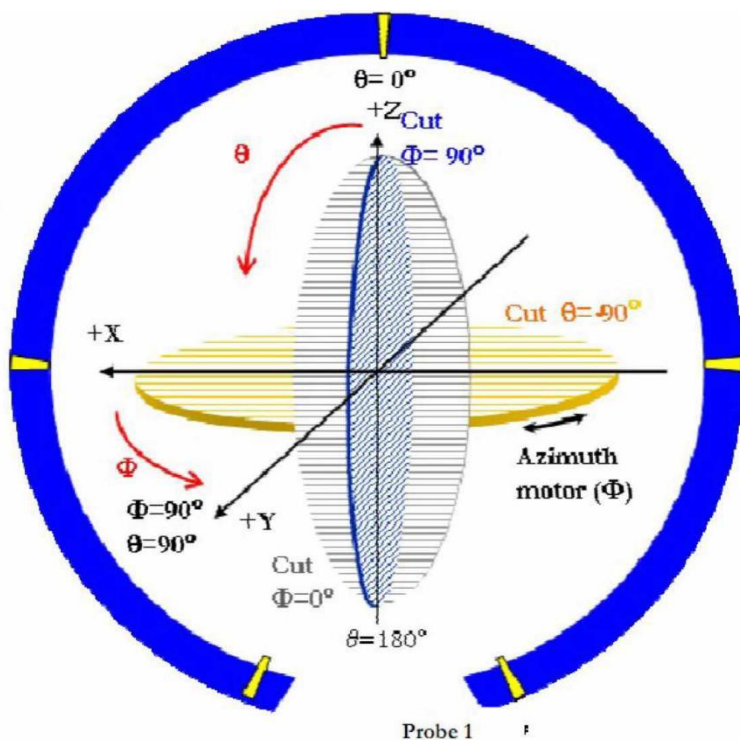
5. Antenna test result/测试结果

5.1 Return loss/Smith chart/VSWR/回波损耗/史密斯图/驻波比

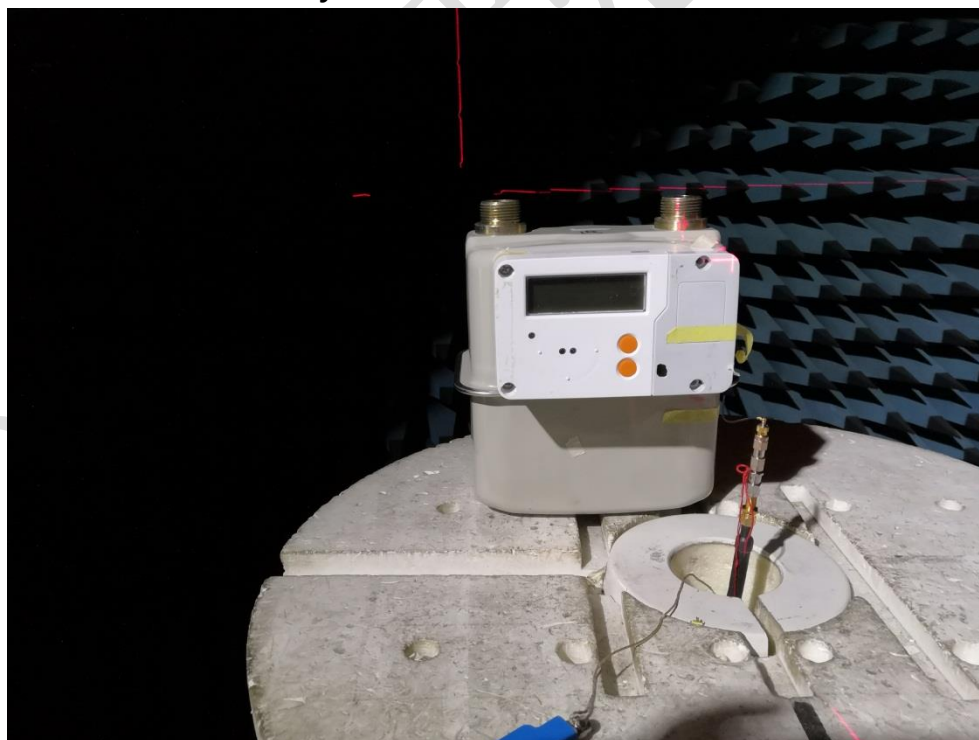


5.2 The gain and total efficiency test/增益和效率测试

5.2.1 The definition of coordinate system/坐标系定义-Satimo SG24



The coordinate system of Chamber/暗室坐标系



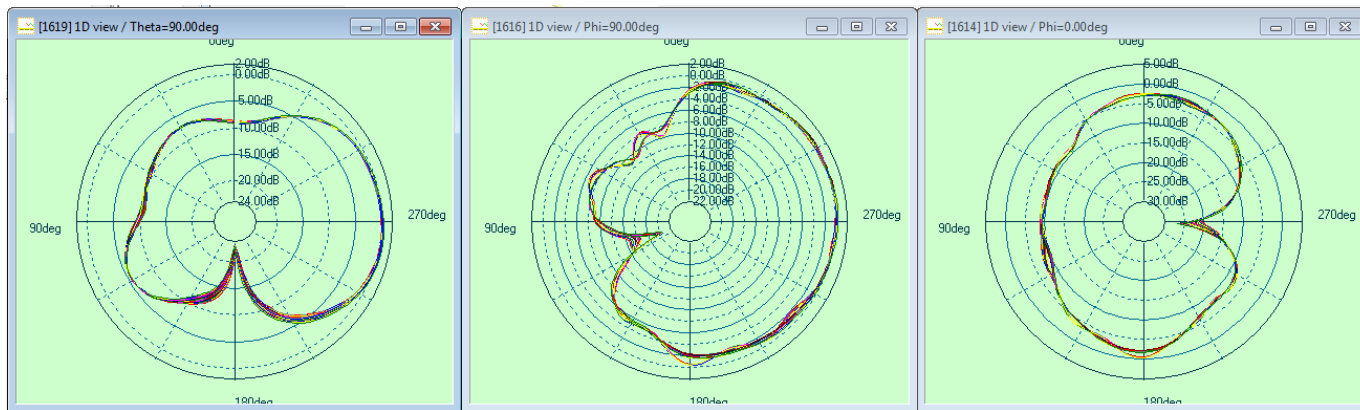
The production test position/天线测试放置位置

**5.2.2 The test result of total efficiency and total gain/天线效率及增益测试结果
902MHz-960MHz**

Frequency	Efficiency (%)	Gain (dBi)
900MHz	36%	-1.0
901MHz	36%	-1.0
902MHz	36%	-1.0
903MHz	36%	-1.0
904MHz	36%	-1.0
905MHz	36%	-1.0
906MHz	36%	-1.1
907MHz	35%	-1.1
908MHz	35%	-1.2
909MHz	36%	-1.1
910MHz	36%	-1.1
911MHz	37%	-1.0
912MHz	37%	-1.0
913MHz	37%	-0.9
914MHz	36%	-1.0
915MHz	37%	-1.1
916MHz	36%	-1.2
917MHz	36%	-1.2
918MHz	37%	-1.3
919MHz	37%	-1.2
920MHz	38%	-1.2
AVG	36%	-1.1

5.2.3 The antenna radiation pattern(2D)/天线辐射方向图 (2D)

902-920MHz



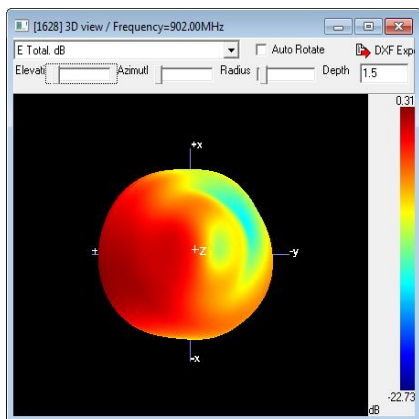
XOY

YOZ

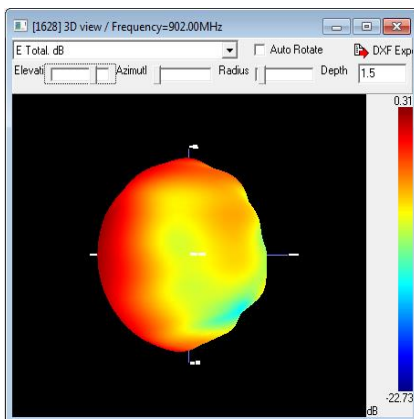
XOZ

5.2.4 The antenna radiation pattern(3D)/天线辐射方向图 (3D)

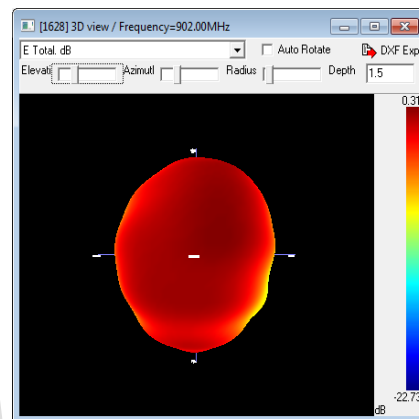
Frequency/频点 902MHz



XOY

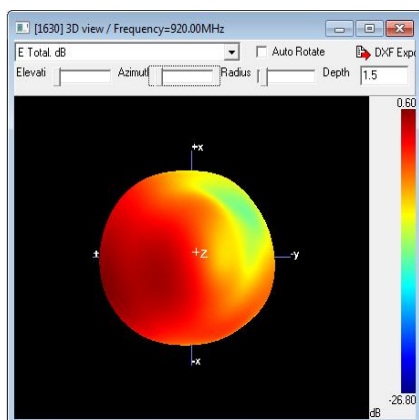


YOZ

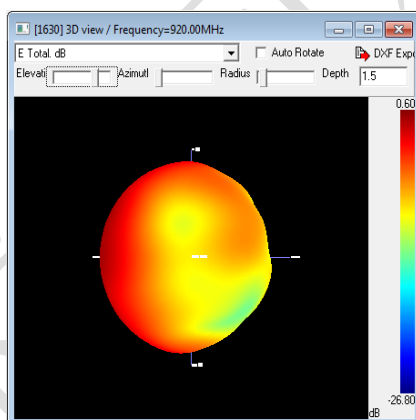


XOZ

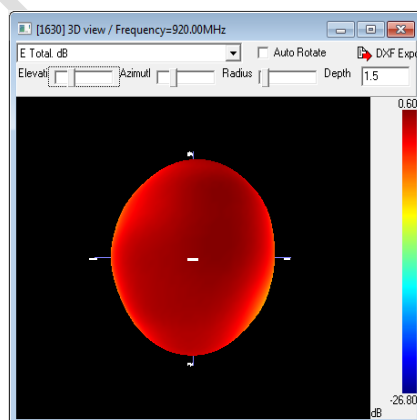
Frequency/频点 920MHz



XOY



YOZ



XOZ