

# Product Specification

Material name: E71030Q3 - 4in1 antenna FPC

KXHC code: 5ZJ2231013-R1

Sample color: BLACK

Applicable model: E71030Q3

Customer item No: \_\_\_\_\_

Standard sample      Limit sample

SUPPLIER: Shenzhen KeXinHuaCheng Technology Co., LTD

Structure	Project	Quality	Sale	Research and development	Sample delivery date

CUSTOMER: Shanghai Heyi

Department	Confirm	Date	State	Signature and seal
Structure:				
Test:				
project:				

Version number: V1.0

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# CATALOGUE

1、 INFORMATION AND PICTURES

2、 ELECTRICAL PERFORMANCE AND TESTREPORT

3、 ENGINEERING DRAWING

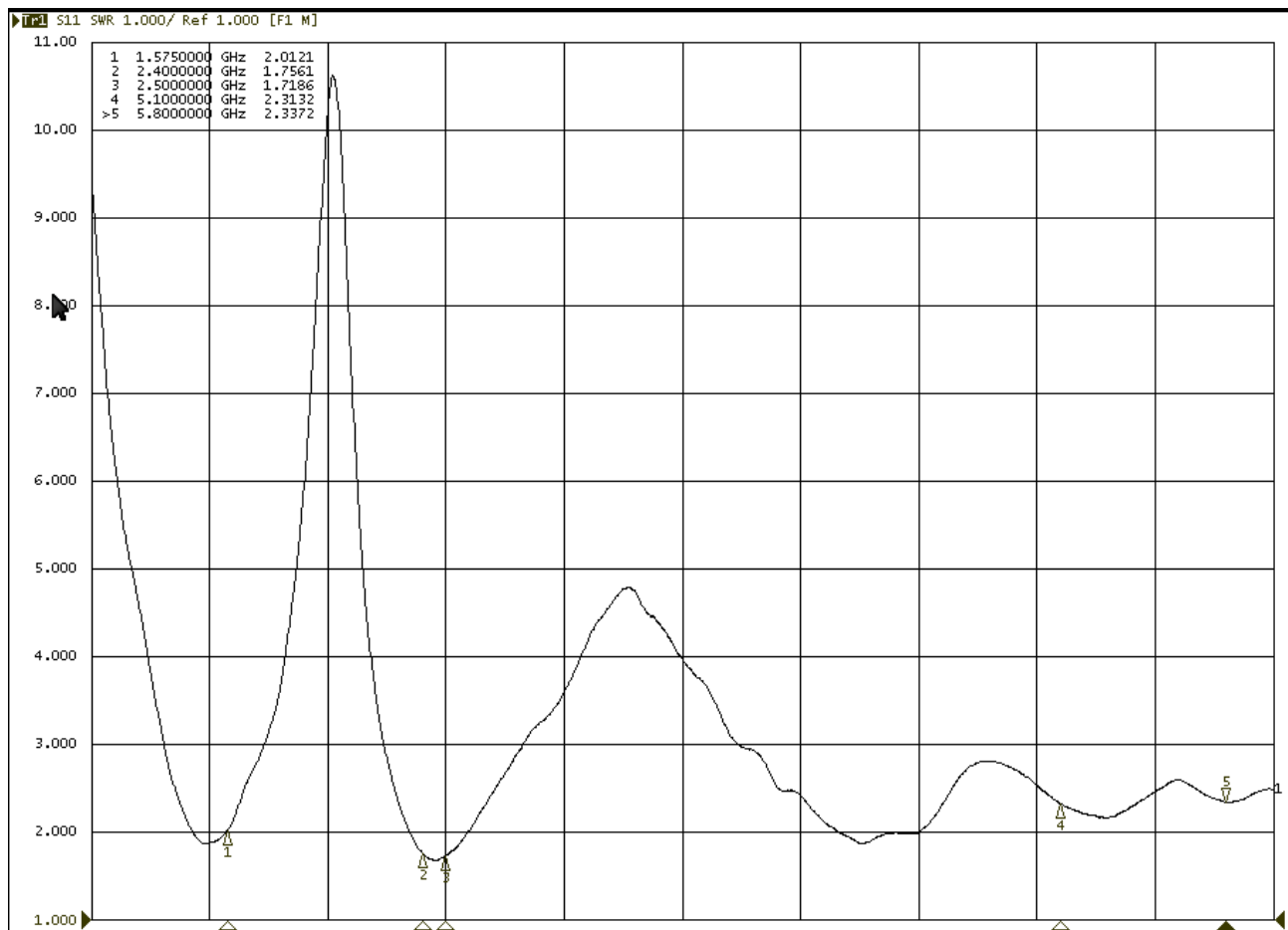
# 1、INFORMATION AND PICTURES

## 1.1 PICTURES



# 2、 ELECTRICAL PERFORMANCE AND TESTREPORT

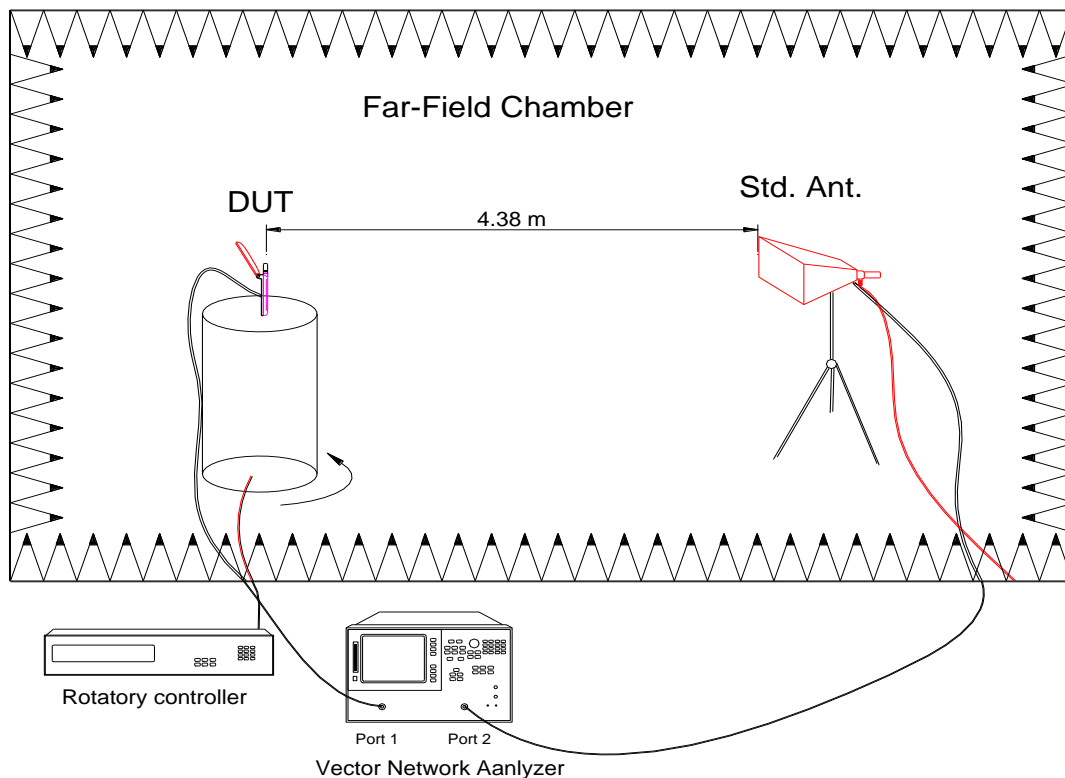
## 2.1 S11



## 2.2 Measure and Chamber

### 2-2-1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data



## 2-2-2 Chamber definition

1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

## 2.3 Passive test data

Frequency (MHz)	Peak Gain (dB)	Average Gain (dB)	Efficiency (%)
1550	0.85	-4.08	39%
1555	1.12	-4.04	39%
1560	1.10	-4.07	39%
1565	1.05	-4.07	39%
1570	1.11	-4.05	39%
1575	1.39	-4.05	39%

1580	1.26	-4.09	39%
1585	1.27	-4.12	39%
1590	1.26	-4.23	38%
1595	1.21	-4.37	37%
1600	1.04	-4.47	36%
2400	1.06	-4.68	34%
2410	1.37	-4.65	34%
2420	1.78	-4.66	34%
2430	1.99	-4.71	34%
2440	2.08	-4.78	33%
2450	2.28	-4.82	33%
2460	2.68	-4.81	33%
2470	1.99	-4.80	33%
2480	1.38	-4.83	33%
2490	1.03	-4.83	33%
2500	0.65	-4.86	33%
5150	2.05	-4.46	36%
5200	2.83	-4.06	39%
5250	2.23	-4.36	37%
5300	2.08	-4.42	35%
5350	2.80	-4.16	38%

5400	2.80	-4.88	33%
5450	2.79	-4.83	33%
5500	2.74	-4.03	37%
5550	2.76	-4.12	36%
5600	2.21	-4.92	35%
5650	2.22	-4.35	36%
5700	2.01	-4.42	34%
5750	2.24	-4.83	36%
5800	2.83	-4.36	37%
5850	2.27	-4.21	34%

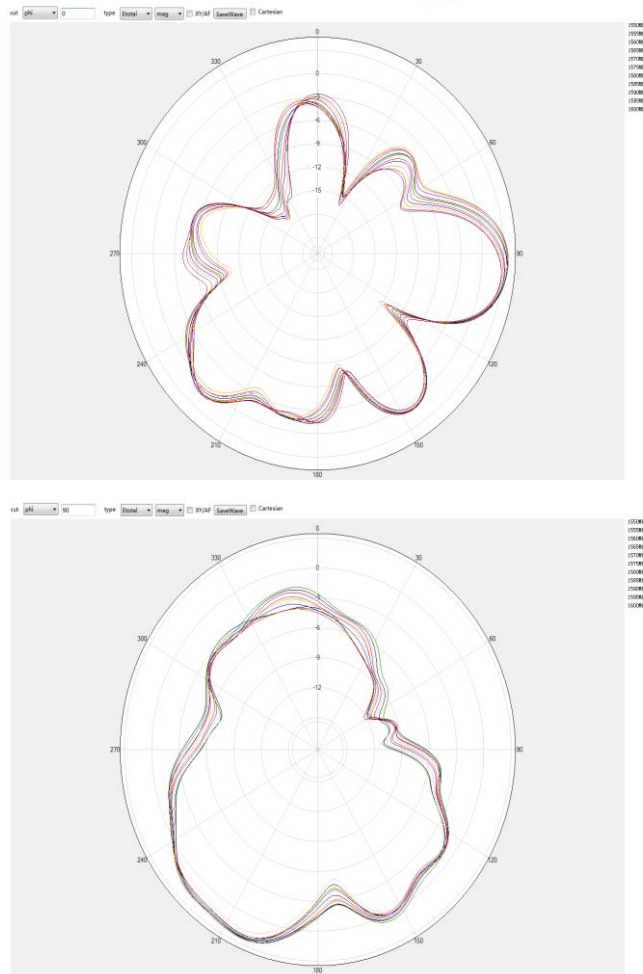
#### 2.4 Active test data

WIFI_B	1	10.21	
	6	10.72	
	13	10.36	-78.64
WIFI_A	36	8.24	
	64	10.18	
	165	10.45	-66.7
GPS	1575.42MHz		-145.44

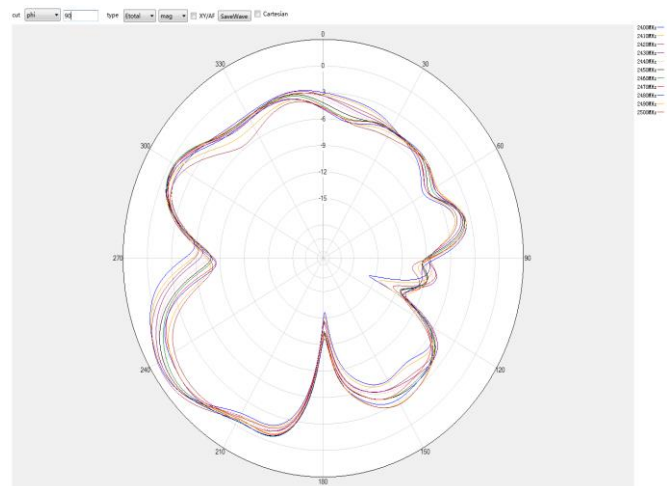
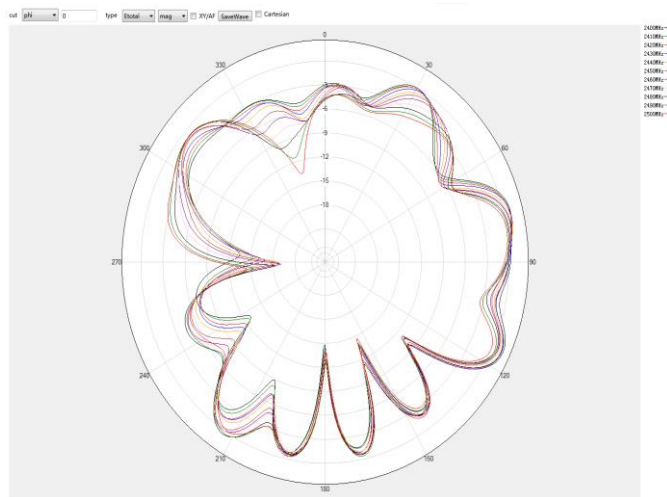
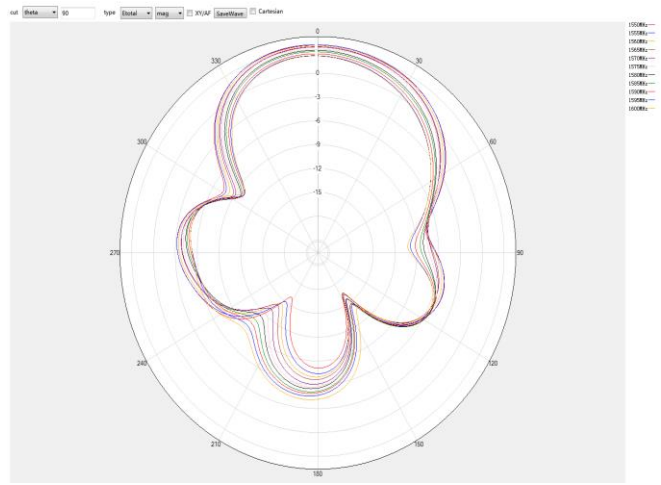
#### 2.5 Match the circuit and switching logic

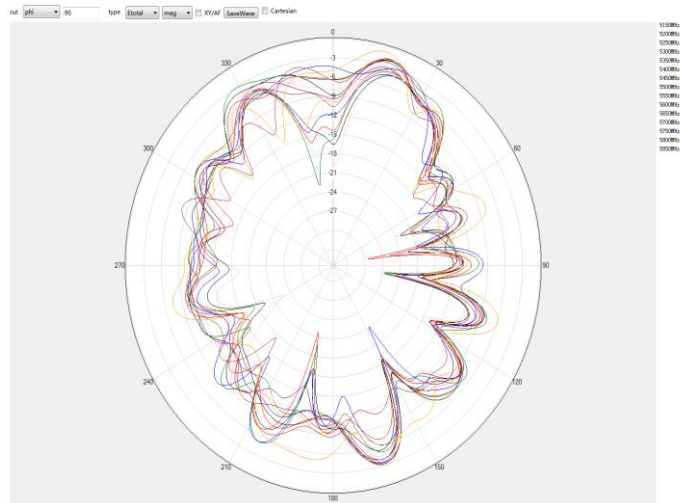
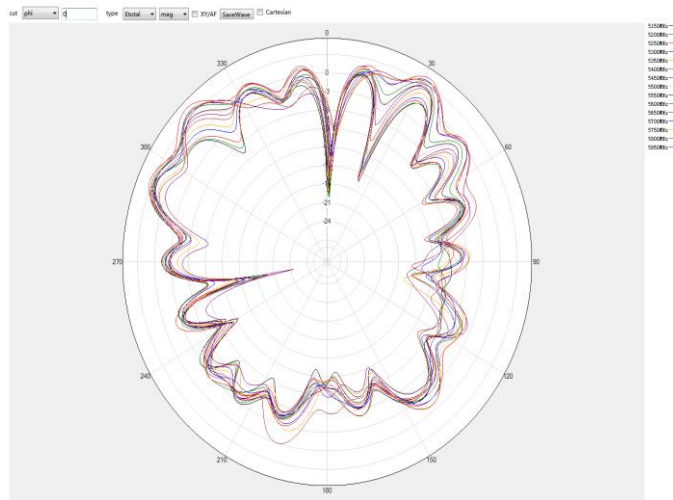
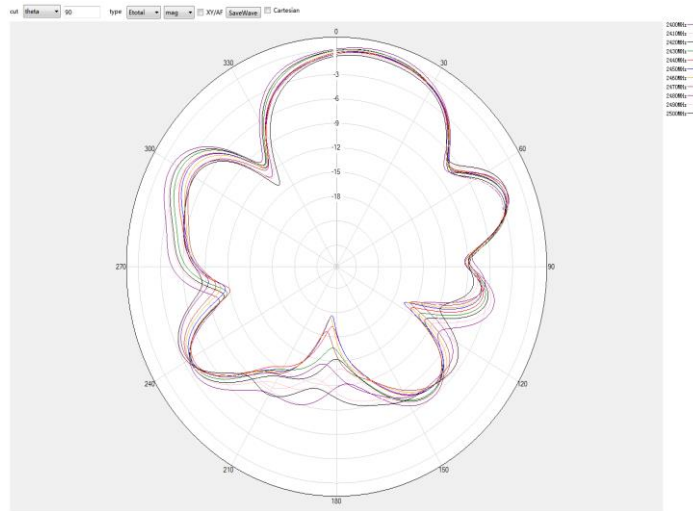
	<b>GPS/WIFI</b>	
	<b>Element</b>	Value
	<b>E01</b>	N/A
	<b>E02</b>	$0\Omega$
	<b>E03</b>	N/A
<b>注：未修改原主板匹配</b>		

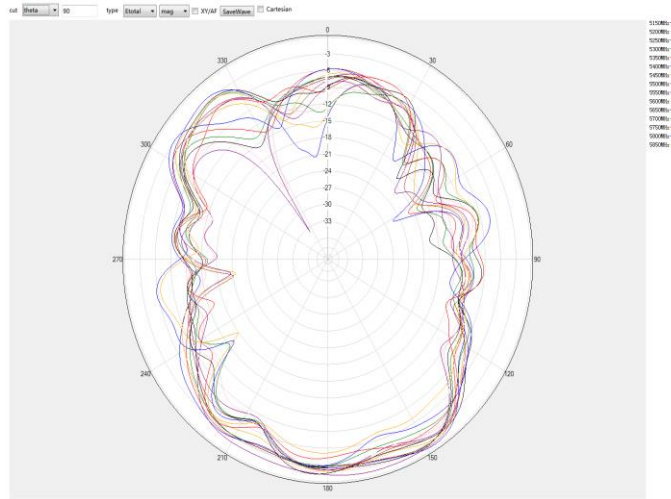
## 2.6 Typical free space radiation pattern



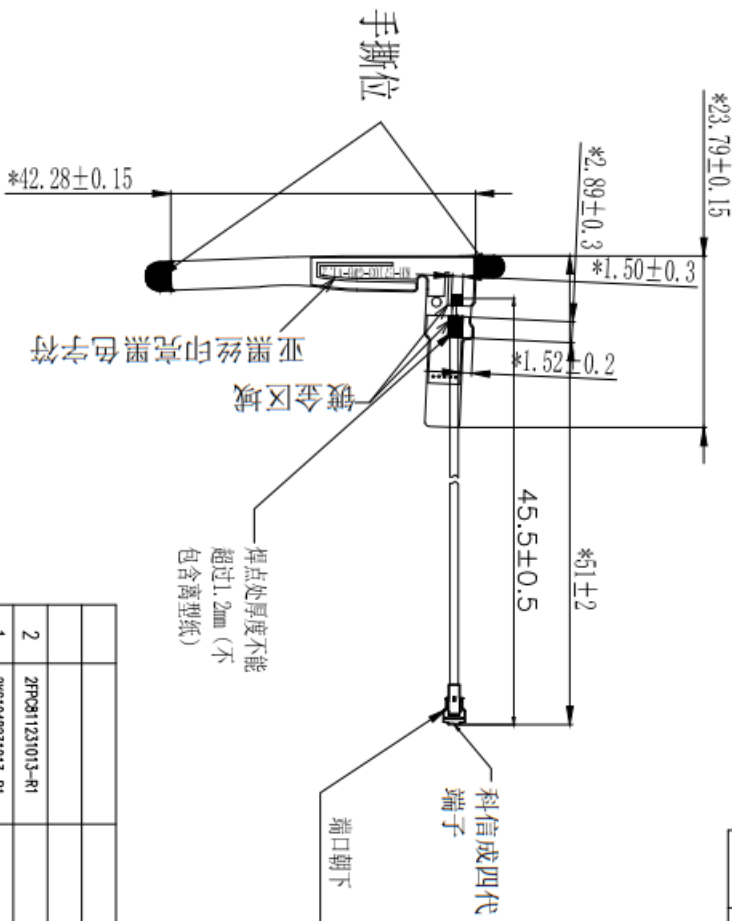








### 3、ENGINEERING DRAWING



标记	签名	修改内容	日期

项号	编号	物料名称	数量
1	ZXC1048231013-R1	四合一同轴缆	1
2	ZPC311231013-R1	四合一天线	1

				<b>深圳市可信华成通信科技有限公司</b>		
第三级角	0-5 ±0.05	0.03	项目名称	E7103	日期	2019/11/19
	5-30 ±0.08	0.03	产品名称	四合一焊线组件	设计	
	30-50 ±0.10	0.02	产品料号	5Z12231013-R1	审核	MO ZYH
	50-80 ±0.12	0.02	材料	PC同轴缆	批准	
	±1°	0.05			单位	mm
					比例	1:1
					FTT	
					版本	A.A

- 技术要求
1. 天线表面干净，无油污，松香，断裂，变形等不良；
  2. 焊点与产品总厚度<1.2mm, 焊点要均匀，不得有堆积、虚焊、毛刺、缺焊；
  3. 泡棉纸外包，橡皮筋包扎；
  4. 带\*号尺寸与带公差尺寸为重点管控尺寸，其他尺寸按明细栏公差管控；
  5. 产品符合RoHS标准。

