



# Specification

Manufacture: Shenzhen Si Xun communication Technology Co., LTD  
Address: A505/506, Donglian Building, Chuangye 2nd Road, Dalang Community, Xin 'an Street, Bao 'an District, Shenzhen

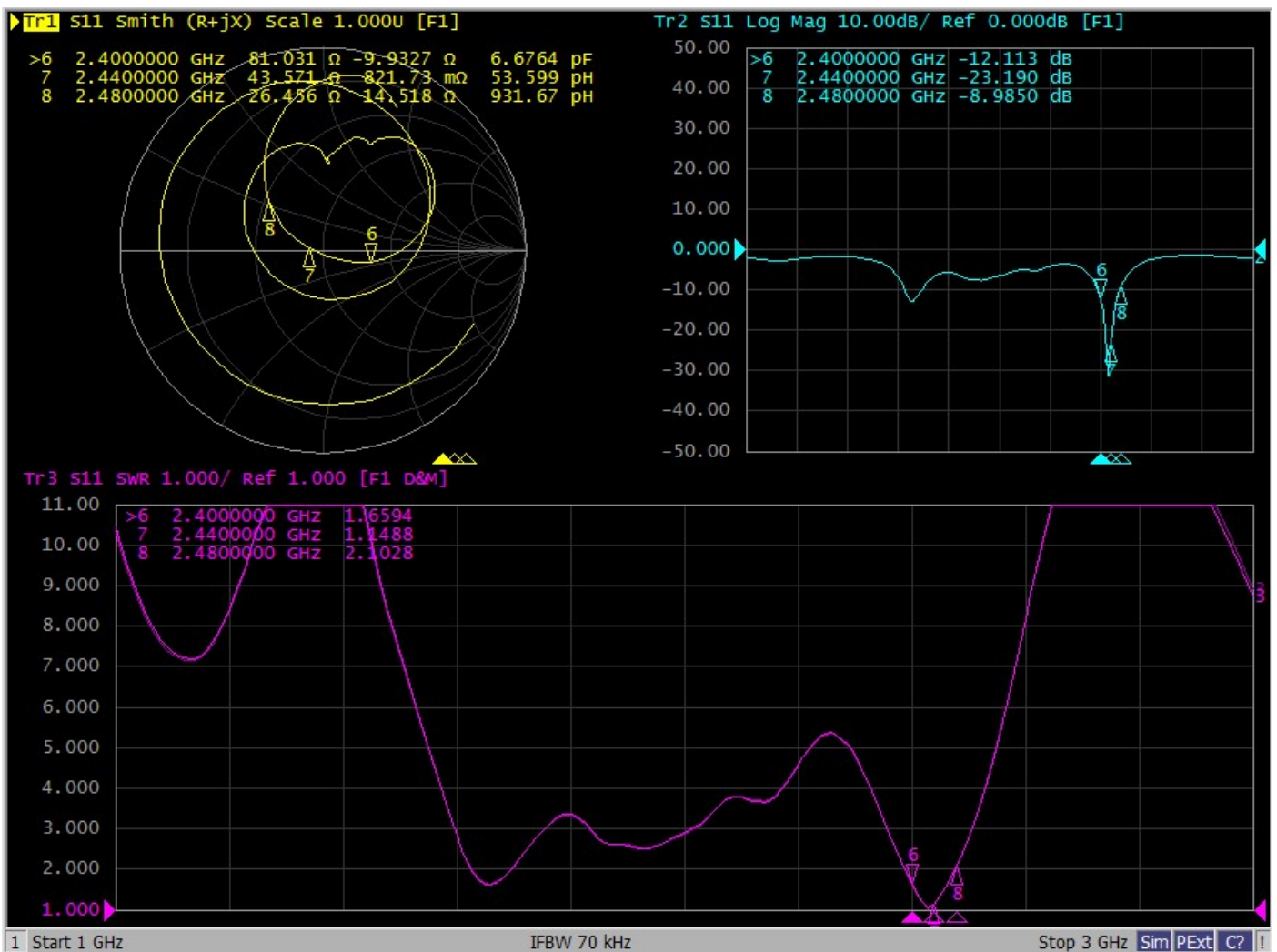
Client:	Cosonic
Project:	CA-7585B
Name:	BT/WIFI Antenna
Type:	dipole Antenna
Version:	V1.0
Date:	2023.12.12

一: Passive test report

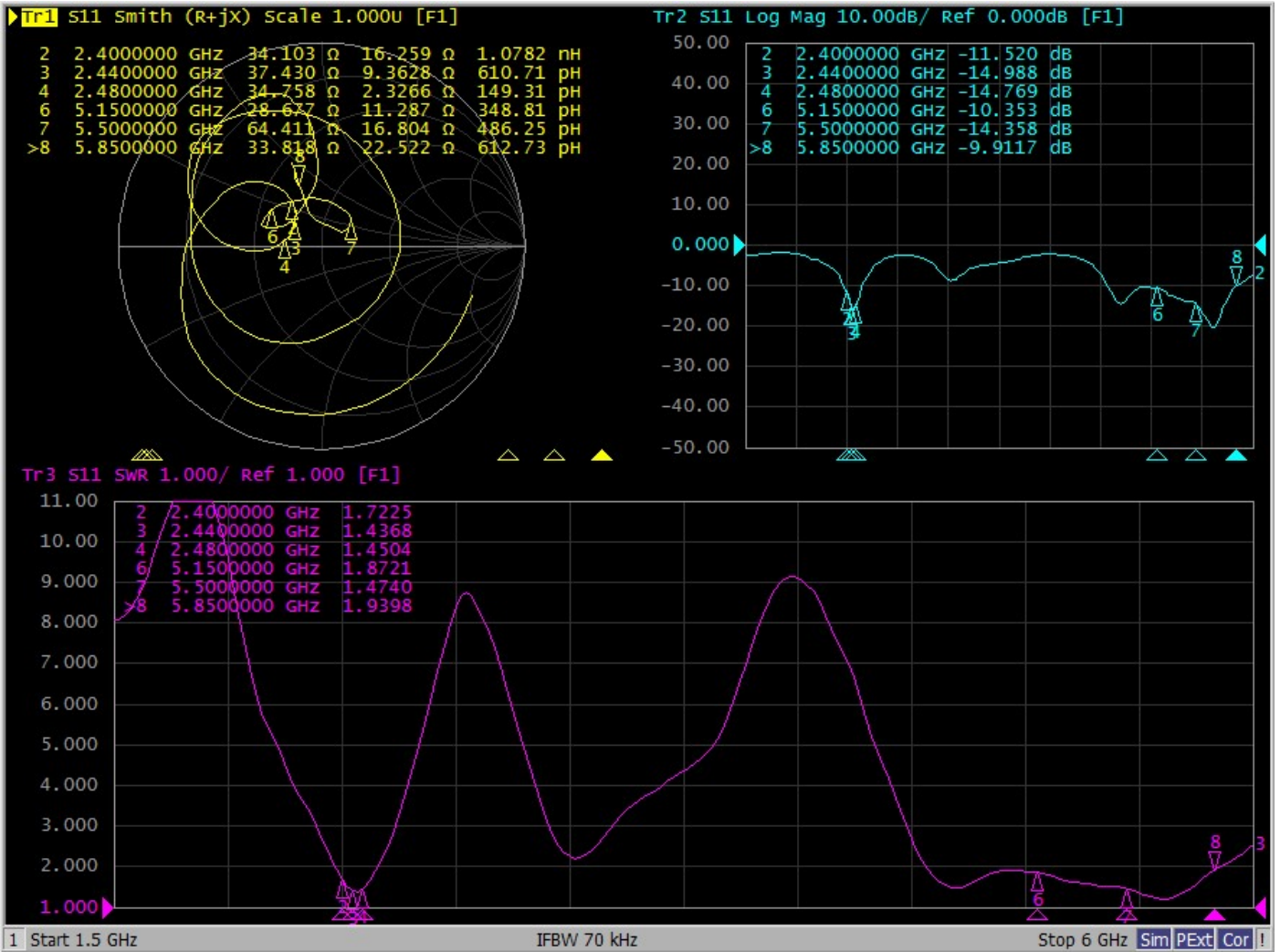


Agilent E5071C

BT Antenna S11 parameter



# WIFI Antenna S11 parameter



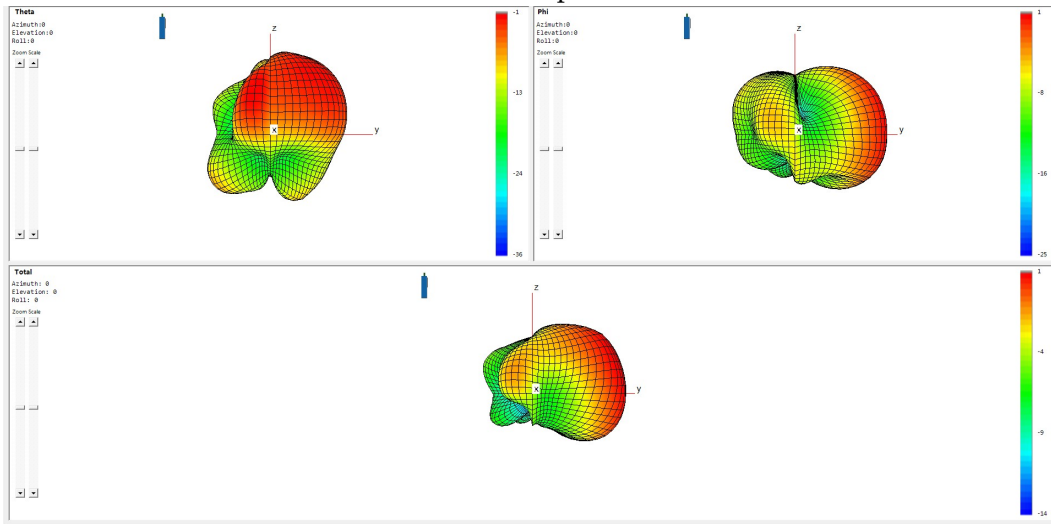
BT Antenna efficiency and gain:

BT			
Frequency MHz	GAIN(dBi)	efficiency(dB )	efficiency (%)
2400	0.91	-5.00	31.63
2410	1.11	-4.85	32.75
2420	1.37	-4.75	33.51
2430	1.52	-4.84	32.83
2440	1.40	-5.01	31.54
2450	1.48	-5.00	31.63
2460	1.48	-5.23	29.98
2470	1.81	-5.13	30.66
2480	1.85	-5.21	30.10
Average	1.44	-5.00	31.63

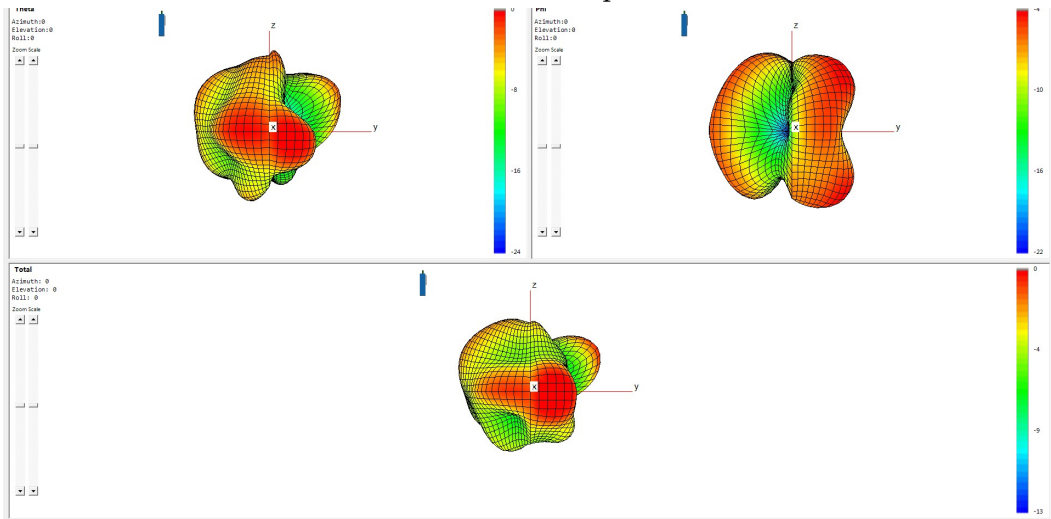
WIFI Antenna efficiency and gain:

WIFI							
Frequency MHz	GAIN(dBi)	efficiency(dB )	efficiency (%)	Frequency MHz	GAIN(dBi)	efficiency(dB )	efficiency (%)
2400	-0.67	-4.62	34.50	5150	0.95	-4.21	37.95
2410	-0.55	-4.40	36.31	5200	0.61	-4.45	35.93
2420	-0.34	-4.17	38.25	5250	0.23	-4.30	37.18
2430	-0.43	-4.15	38.46	5300	0.86	-3.73	42.34
2440	-0.19	-4.11	38.85	5350	1.55	-3.70	42.65
2450	0.25	-3.88	40.96	5400	2.37	-3.42	45.50
2460	0.18	-3.91	40.62	5450	1.67	-3.56	44.05
2470	0.59	-3.53	44.37	5500	1.54	-3.07	49.27
2480	1.08	-3.21	47.70	5550	2.18	-2.78	52.69
Average	-0.01	-4.00	40.00	5600	2.29	-2.84	52.03
				5650	1.97	-3.27	47.05
				5700	2.13	-3.11	48.87
				5750	2.99	-2.57	55.35
				5800	3.02	-2.99	50.28
				5850	4.13	-2.71	53.63
				Average	1.90	-3.38	46.32

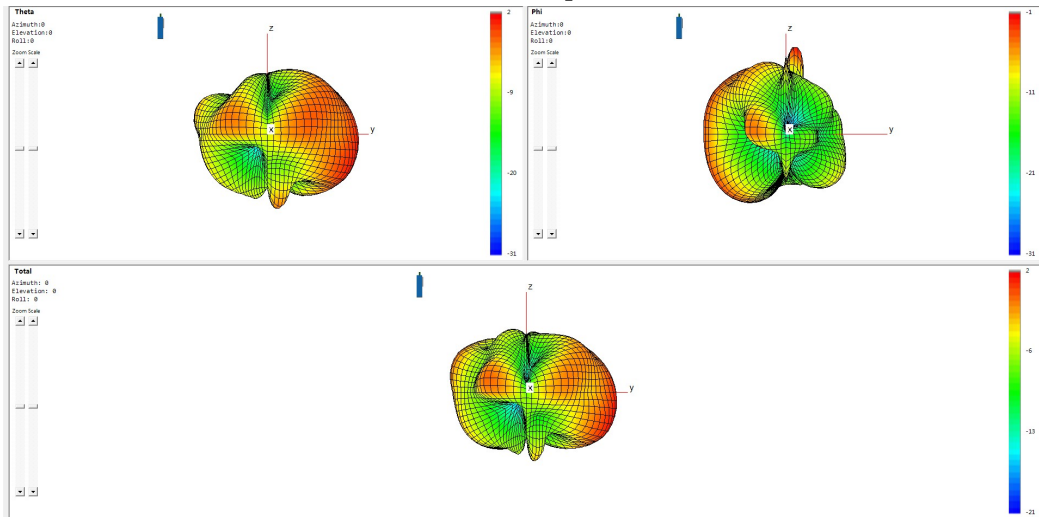
### BT Antenna 3D radiation pattern:



### WIFI 2.4G Antenna 3D radiation pattern:

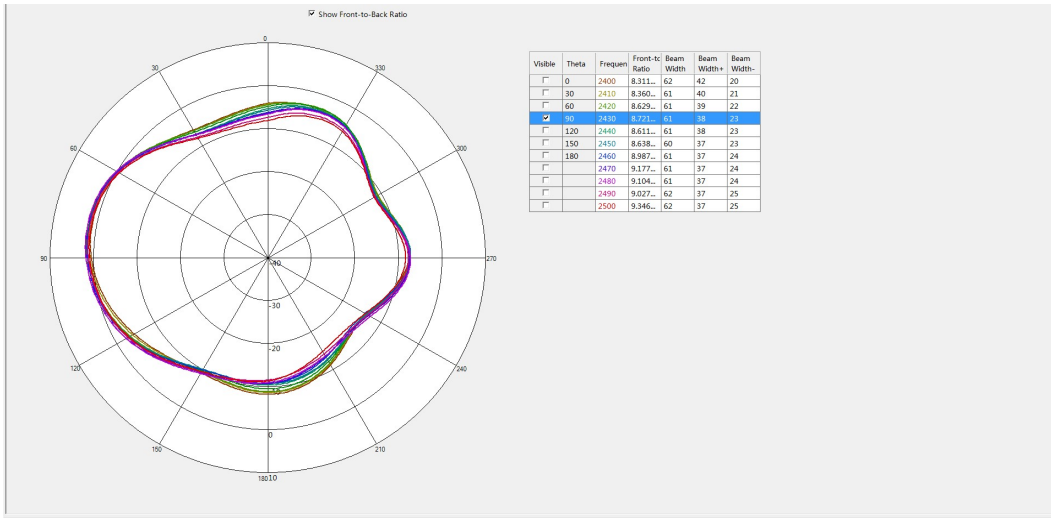


### WIFI 5G Antenna 3D radiation pattern:

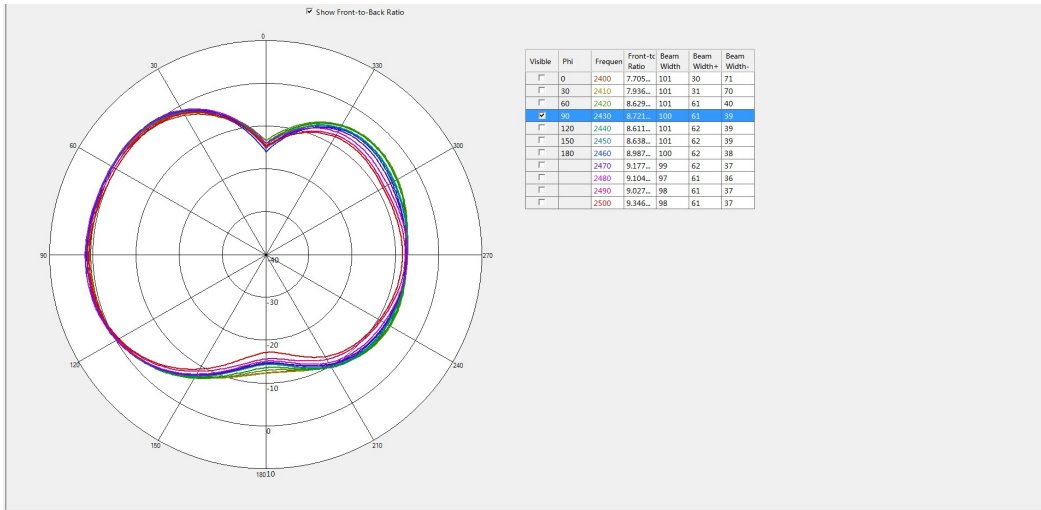


# BT Antenna 2D radiation pattern:

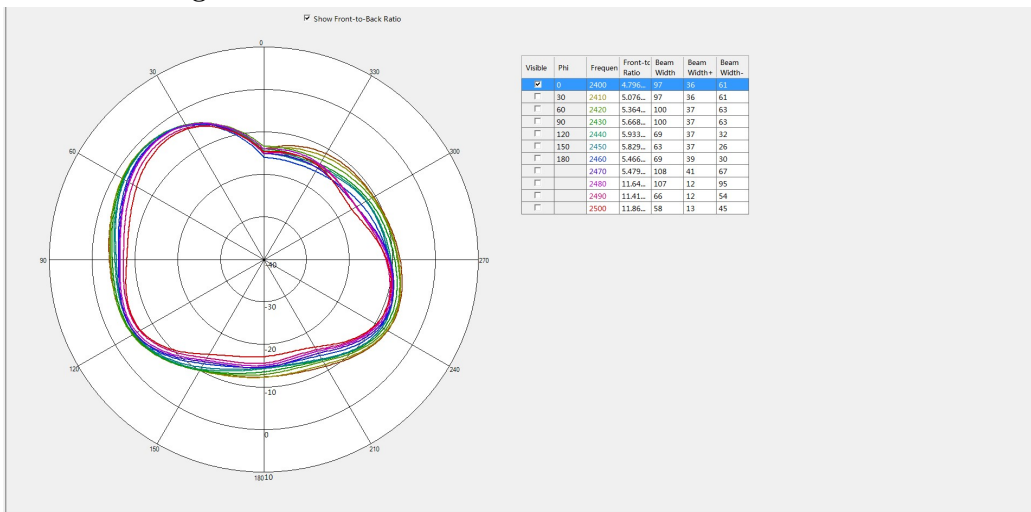
Theta=90.00deg



Phi=90.00deg

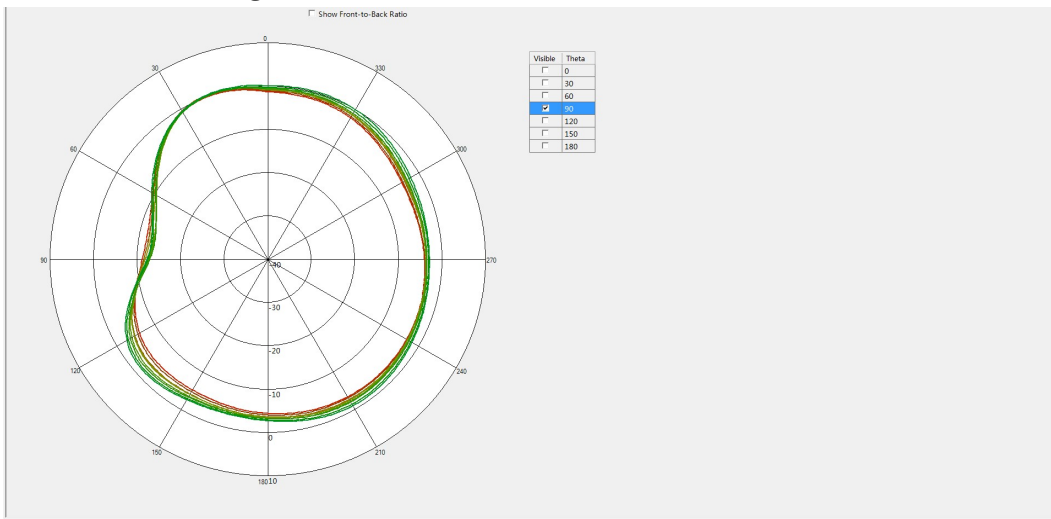


Phi=0.00deg

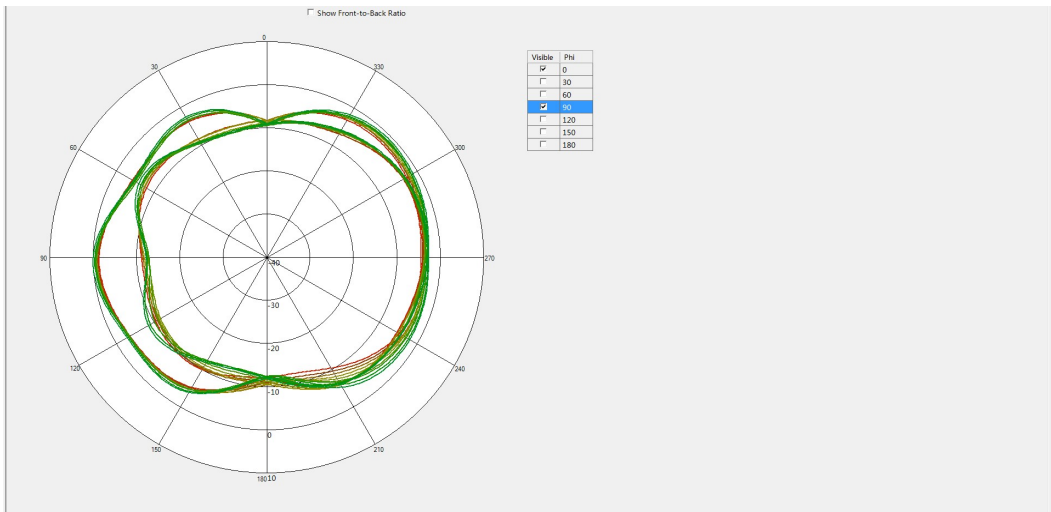


# WiFi 2.4G Antenna 2D radiation pattern:

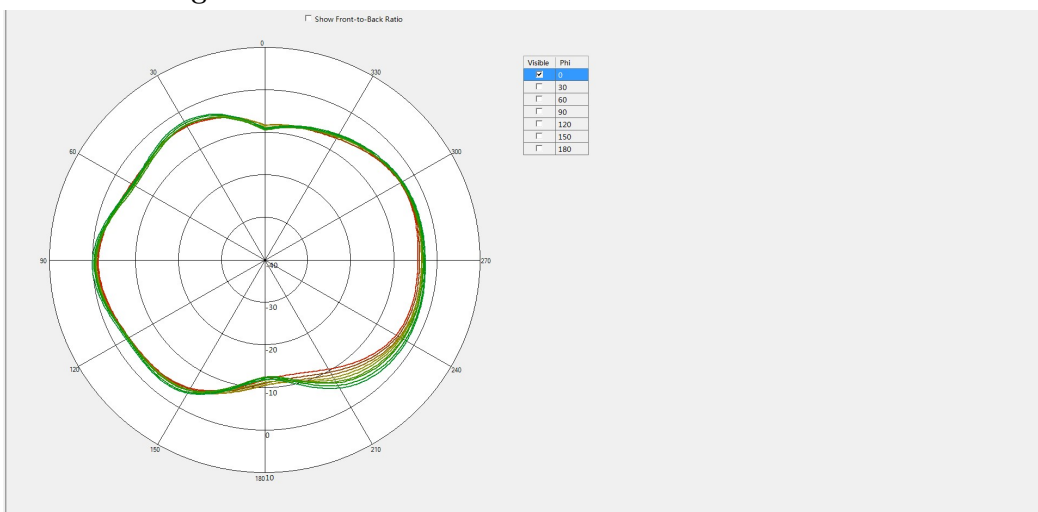
Theta=90.00deg



Phi=90.00deg

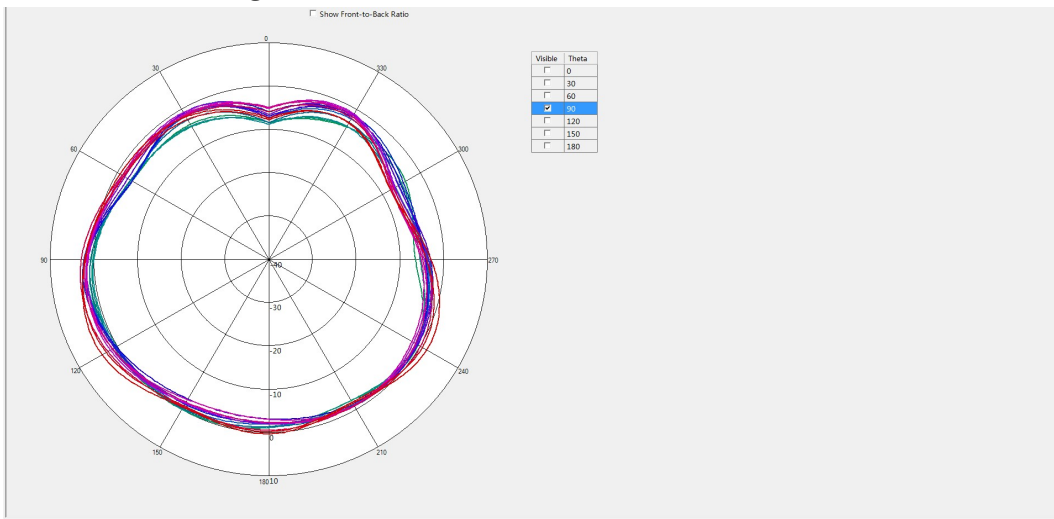


Phi=0.00deg

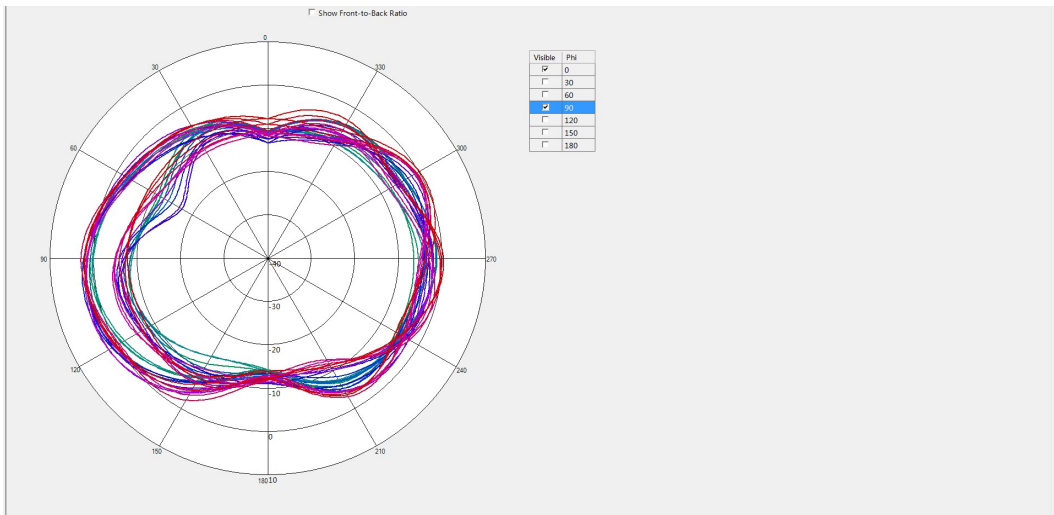


# WiFi 5G Antenna 2D radiation pattern:

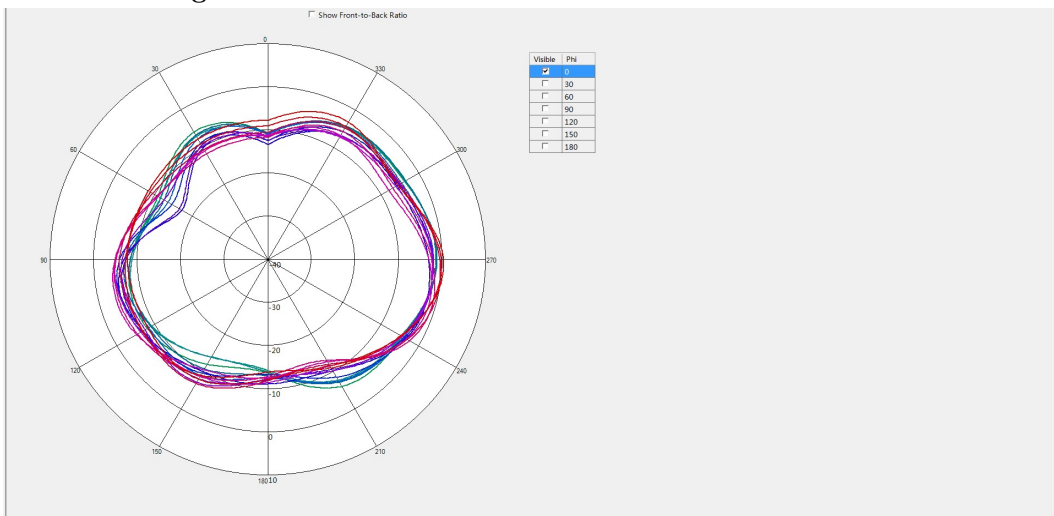
Theta=90.00deg



Phi=90.00deg



Phi=0.00deg





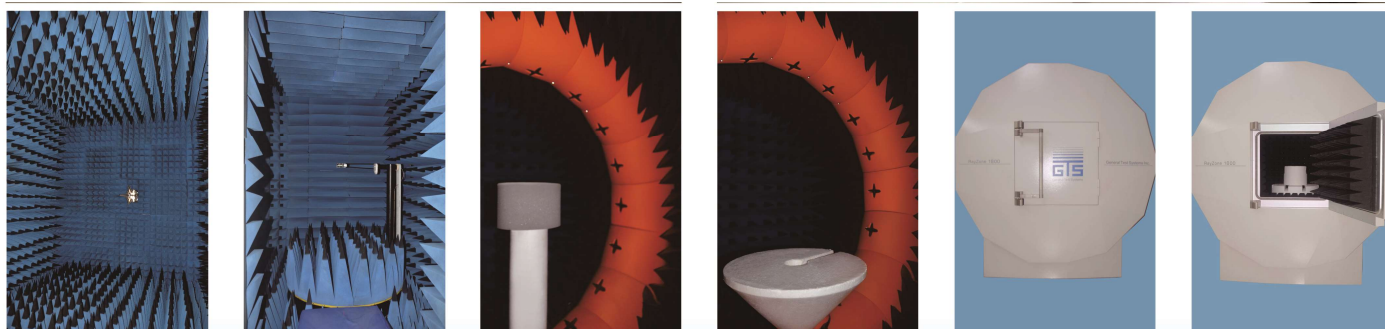
## 二: BT Antenna 3D OTA Test Data

11M	Channel	TRP (dBm)	TIS (dBm)
WIFI B	CH 1	10.2	-83.9
	CH 6	10.3	-84.9
	CH 11	11.0	-84.9

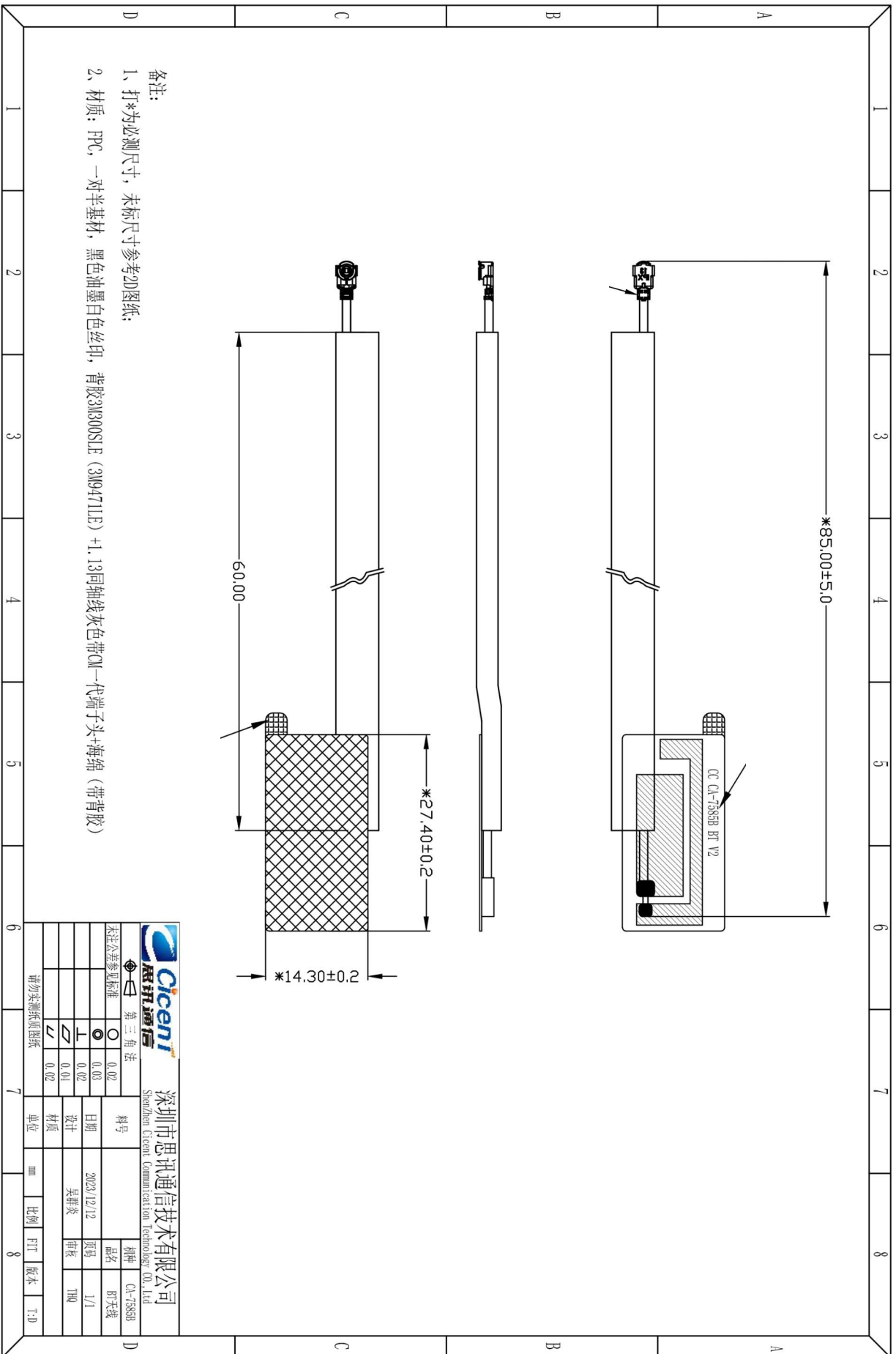
54M	Channel	TRP (dBm)	TIS (dBm)
WIFI G	CH 1	10.5	-71.1
	CH 6	11.6	-71.8
	CH 11	10.5	-71.8

54M	Channel	TRP (dBm)	TIS (dBm)
WIFI A	CH 36	10.9	N/A
	CH 100	7.7	N/A
	CH 165	9.4	N/A

FS	Channel	TRP (dBm)	TIS (dBm)
BT	CH 0	3.2	-90.3
	CH 39	3.5	-90.9
	CH 78	3.7	-90.7



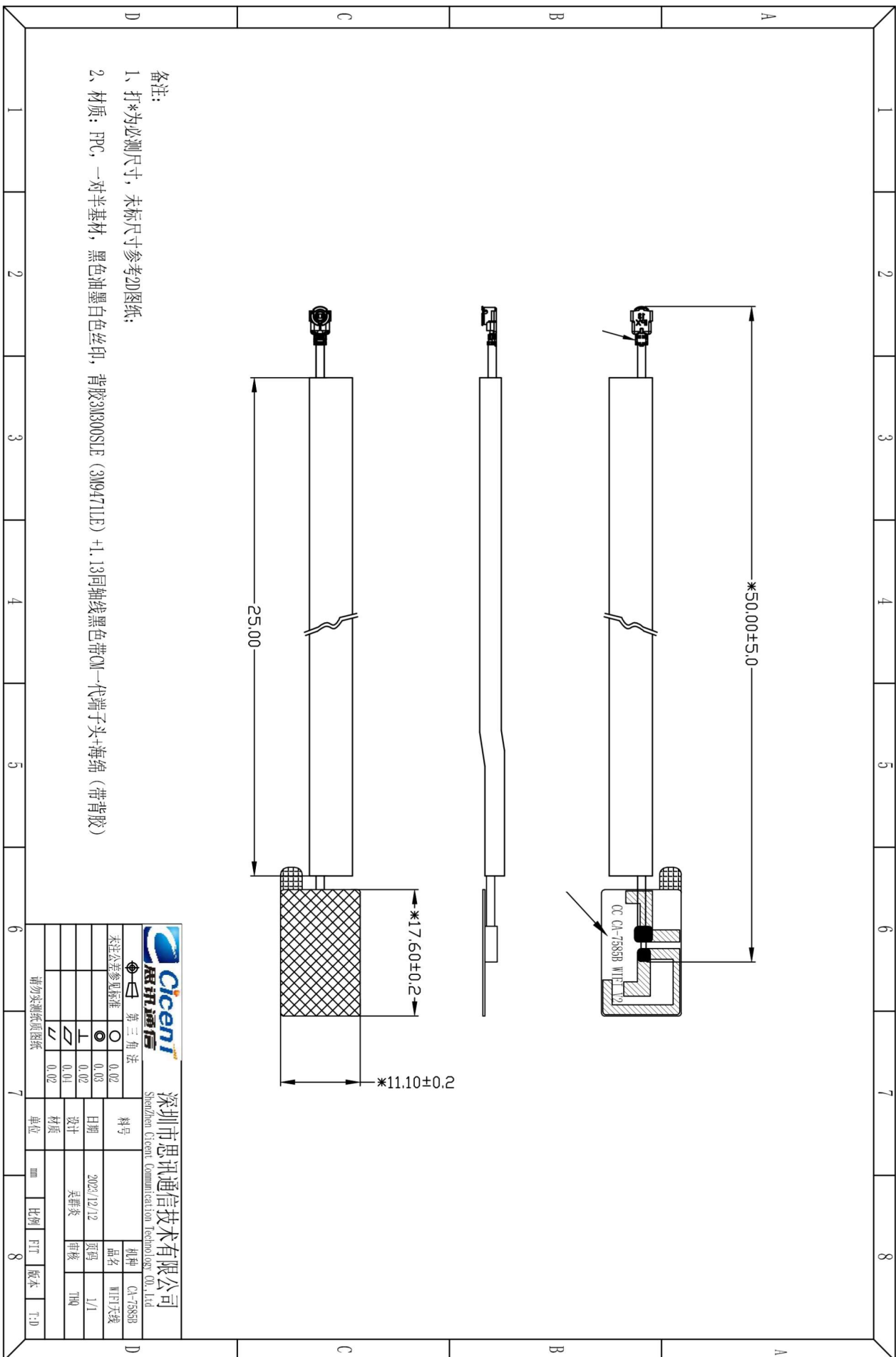
OTA Standard Chamber



备注:

- 1、打\*为必测尺寸，未标尺寸参考2D图纸;
- 2、材质：PPC，一对半基材，黑色油墨白色丝印，背胶3M300SLF (3M9471LE) +1.13同轴线灰色带CM一代端子头+海绵（带背胶）

		<b>深圳市思讯通信技术有限公司</b> Shenzhen Cicent Communication Technology Co., Ltd.	
	第三角法	料号	CC-7385B
	本注公差参见标准	日期	2023/12/12
		设计	吴胜炎
		审核	覃彬
		材质	
		单位	mm
		比例	1:1
		版本	E-1.0
		请勿实测纸质图纸	



备注:

- 1、打\*为必测尺寸，未标尺寸参考2D图纸;
- 2、材质：FPC，一对半基材，黑色油墨白色丝印，背胶3M300SLE (3M9471LE) +1.13同轴线黑色带CM一代端子头+海绵（带背胶）

		<b>深圳市思讯通信技术有限公司</b> Shenzhen Cicent Communication Technology Co., Ltd.	
第三角法	料号	机种	CA-7388B
未注公差参照标准	日期	品名	W/F1天线
0.02	2025/12/12	质码	1/1
0.03	设计	审核	THQ
0.02	吴群英	材料	
0.01	单位	mm	
0.02	比例	1:1	版本
请勿实测实物图纸	单位	mm	T:0