



# Antenna Part Specification

Customers:	Risuntek
Project name:	LT-2091
Antenna type:	FPC
Antenna morphology:	PIFA
Version:	V1.0
Date:	2024.06.26
Supplier Address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
Supplier:	Shenzhen Cicent Communication Technology Co., Ltd.



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Change record			
Compile / change date	Reason for change	Changed content	Version
2024.06.26	First edition	First edition	V1.0

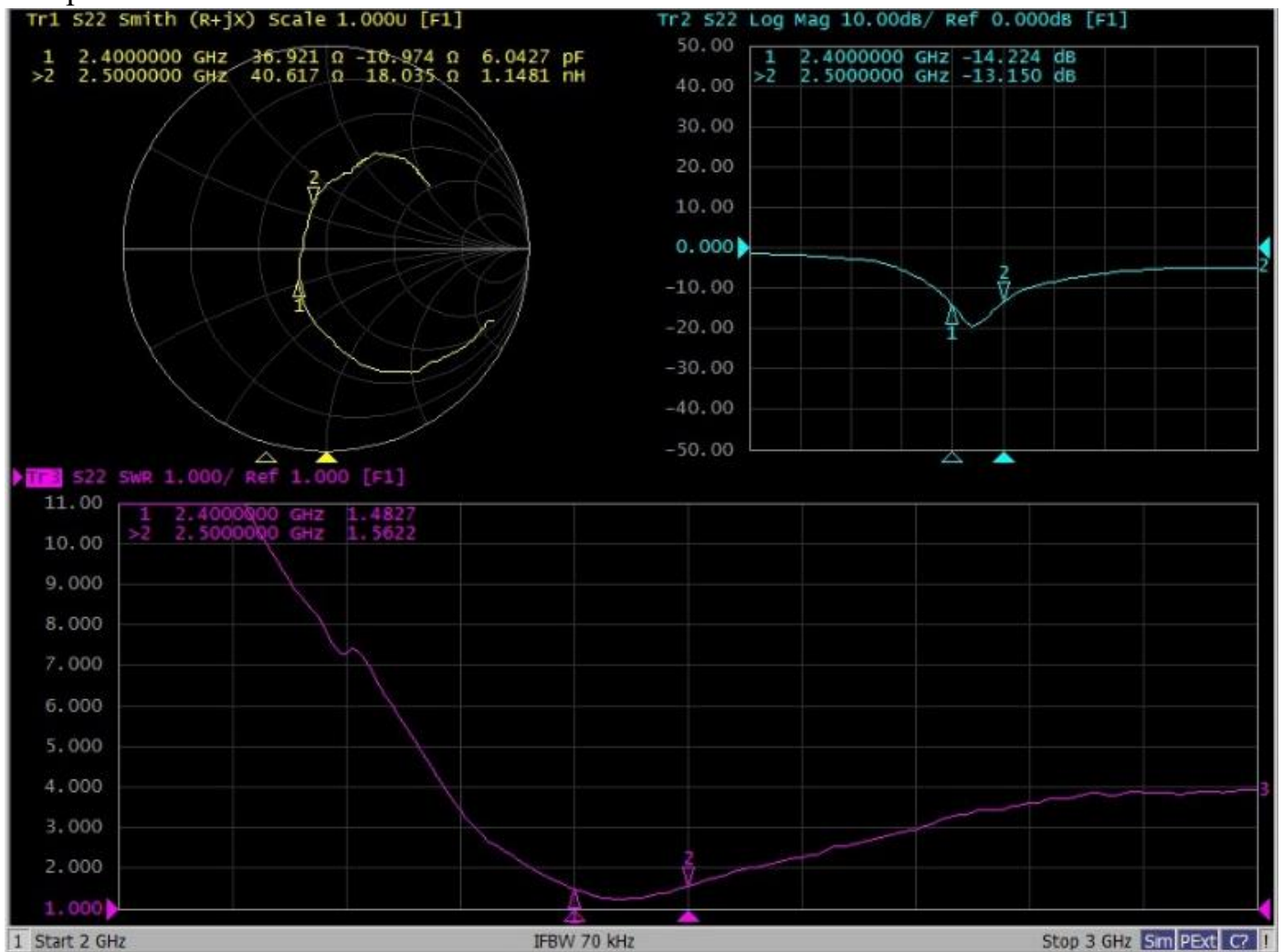


I: The report of passive data



Angilent E5071C

S11 parameter:

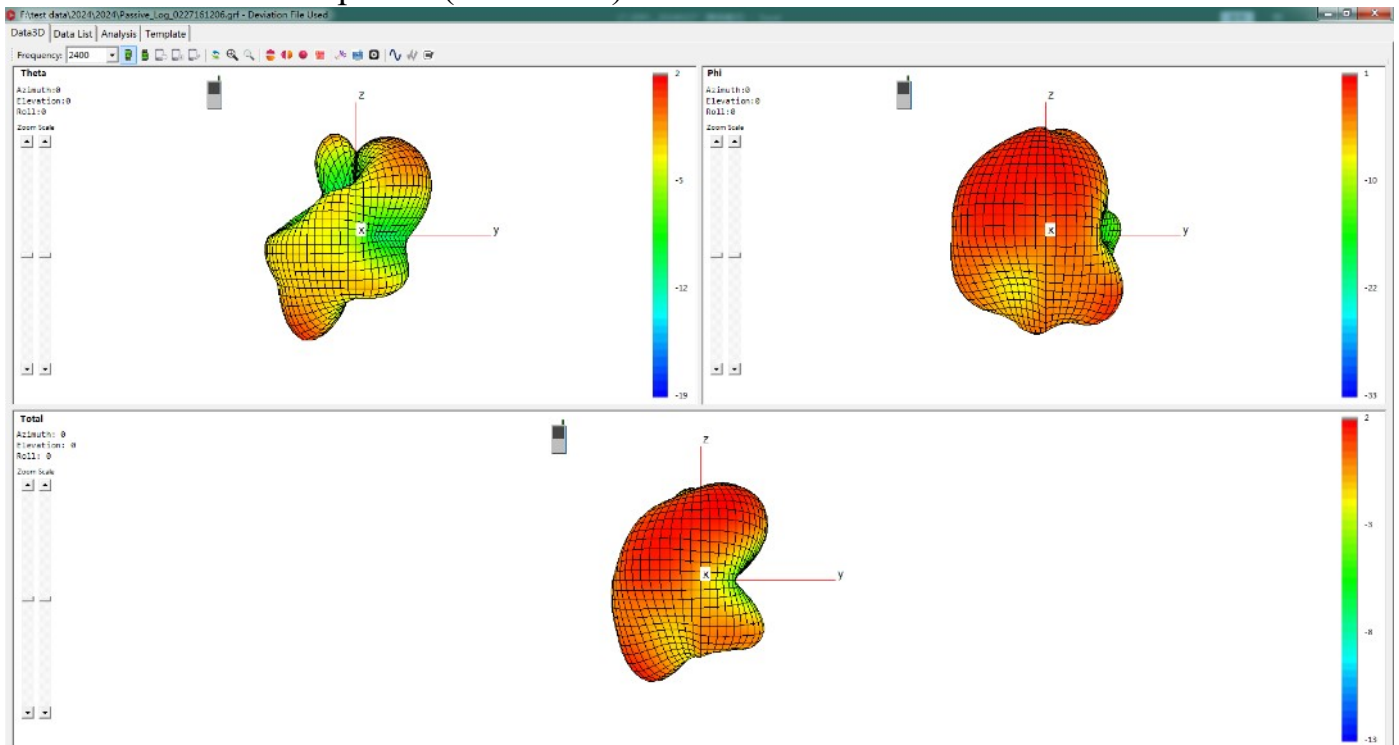




Efficiency:

BT			
Frequency (MHz)	Gain (dBi)	Efficiency (dB )	Efficiency
2400	1.8	-2.9	51.2
2410	1.8	-2.8	52.2
2420	1.9	-2.7	53.3
2430	2.0	-2.9	51.6
2440	2.0	-2.9	50.8
2450	2.2	-2.9	51.5
2460	2.1	-2.9	51.7
2470	2.5	-2.2	59.6
2480	2.8	-2.4	57.8
2490	2.8	-2.6	55.3
2500	2.7	-2.6	54.8
Average value	2.2	-2.7	53.6

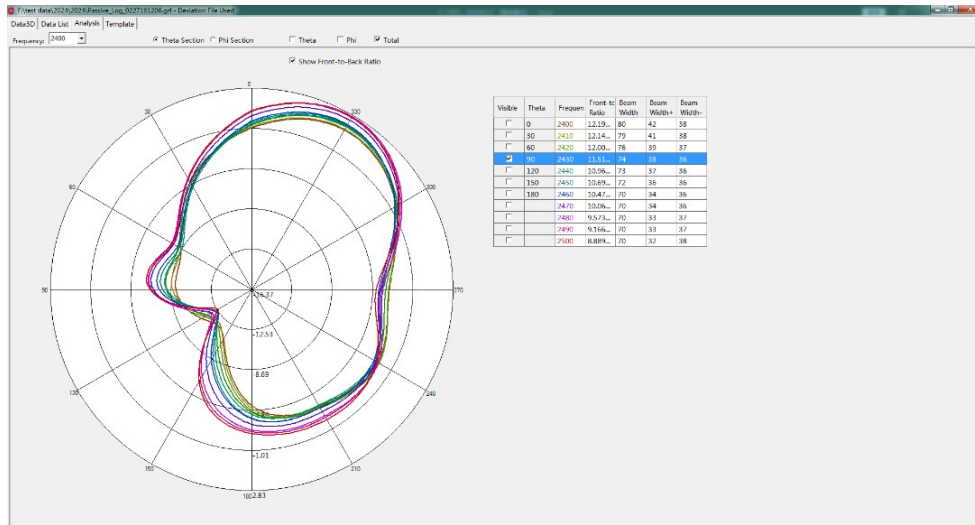
3D Antenna radiation pattern(Unit: dBi):



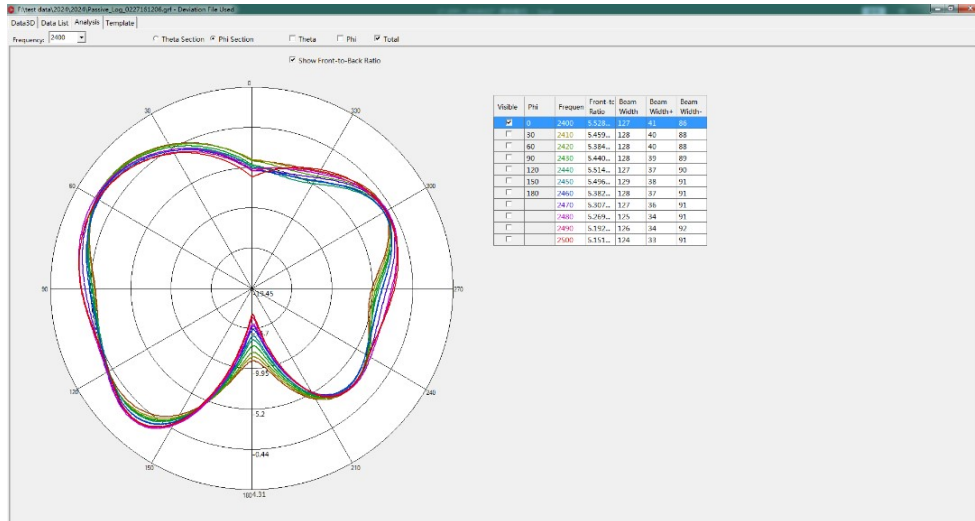


### Antenna radiation pattern(Unit: dBi):

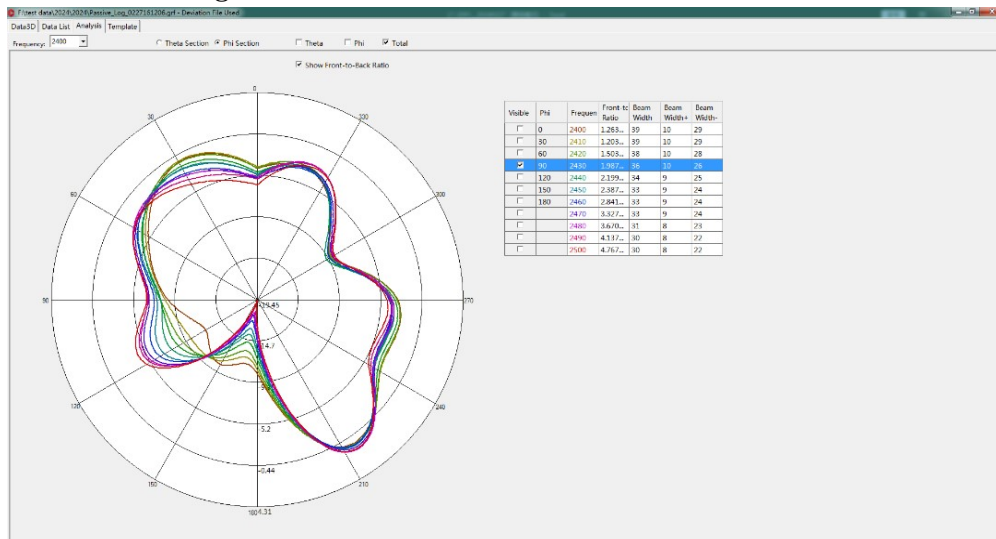
Theta=90. 00deg



Phi=0. 00deg



Phi=90. 00deg







II: 3D Active test report of antenna

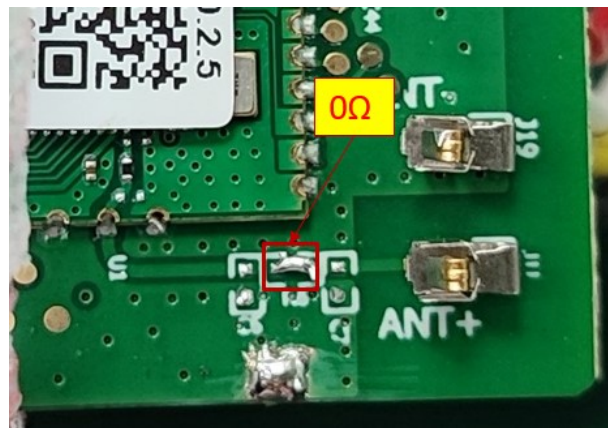
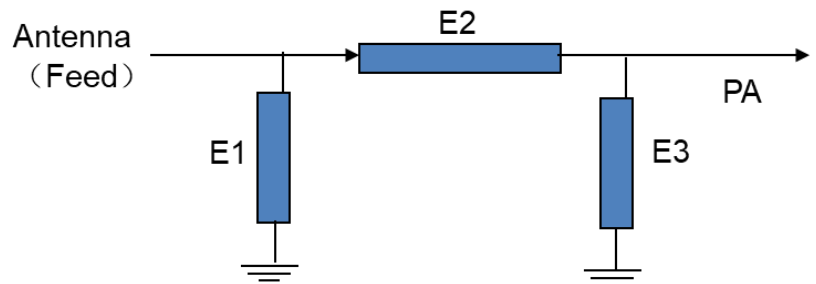
	Channel	TRP (dBm)	TIS(dBm)
BT	CH 0	2.4	-91.4
	CH 39	2.8	-91.4
	CH 78	3.2	-91.0



OTA Standard Chamber

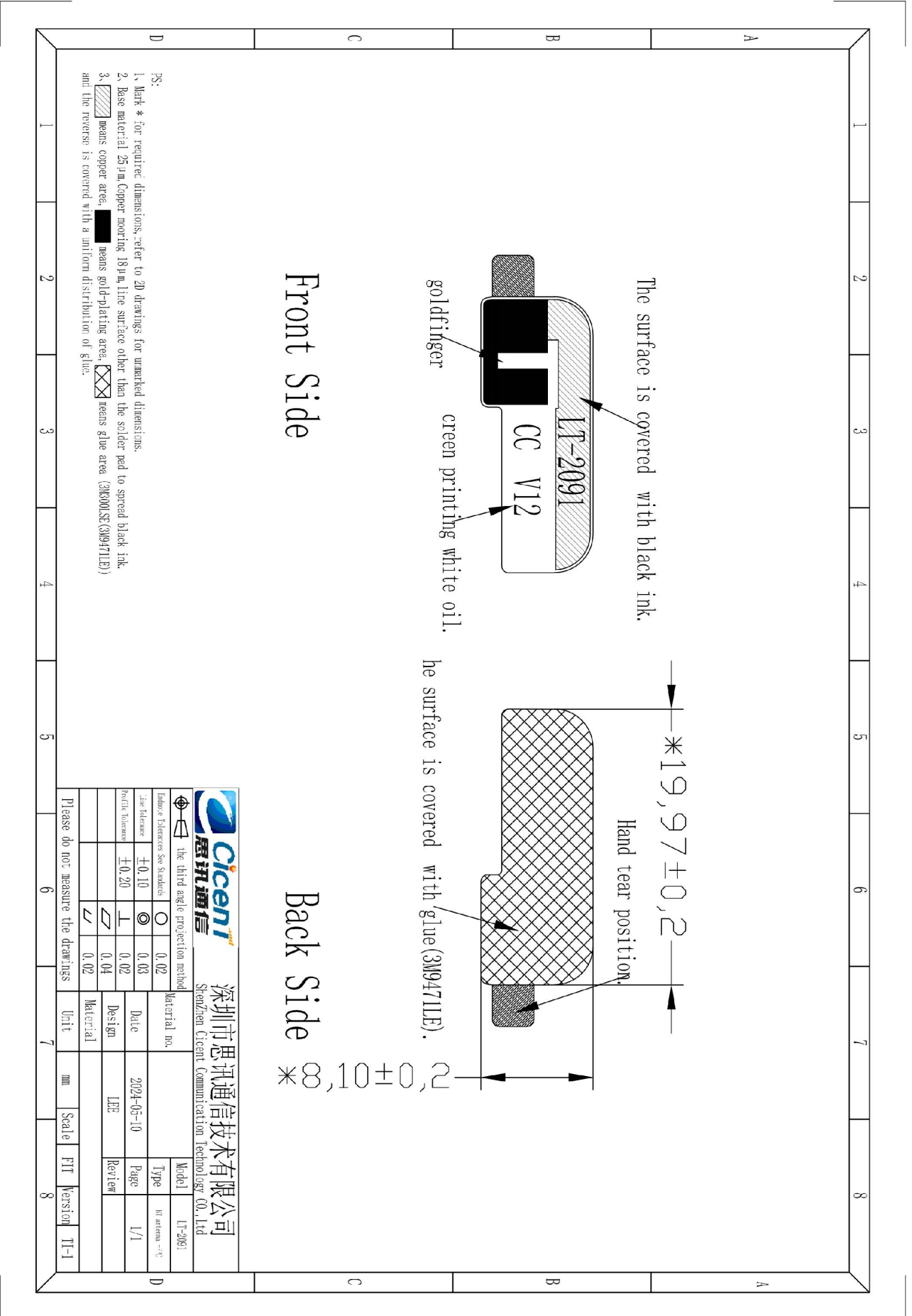
III: Matching circuit

Element	value
E1	N/A
E2	0Ω
E3	N/A





IV: Structure file:



- RS:
1. Mark \* for required dimensions, refer to 2D drawings for unmarked dimensions.
  2. Base material: 25 μm Copper moving 18 μm line surface other than the solder pad to spread black ink.
  3. means copper area; means gold-plating area; means glue area (3M94711E) and the reverse is covered with a uniform distribution of glue.

Front Side

Back Side

		<b>深圳市思讯通信技术有限公司</b> Shenzhen Cicent Communication Technology Co., Ltd	
	the third angle projection method	Material no.	LT-2091
Factor: Thickness	See Standards	Type	RF antenna -V-
Die thickness	±0.10	Date	2024-03-10
Print thickness	±0.20	Design	LFE
	⊥	Review	
	∠	Unit	mm
	∠	Scale	1:1
	∠	PTI	Version
	∠		TI-1

Please do not measure the drawings