



深圳市拓频物联技术有限公司

SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.

天线设计与数据报告报告

Antenna design and data report

CUSTOMER: Guangdong Foshan Shunde Leishun Technology Co.,LTD

PARTNO: TR3C

BAND: 4G

MANUFACTURER: Shenzhen Toppin Iot Technology Co., LTD



深圳市拓频物联技术有限公司
SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.

目 录

Catalogue

- 一. 项目外观图及匹配图
Project appearance and matching pictures
- 二. 天线测试数据
Antenna test data
- 三. 项目环境处理图
Project environmental treatment map
- 四. 概述
Summary



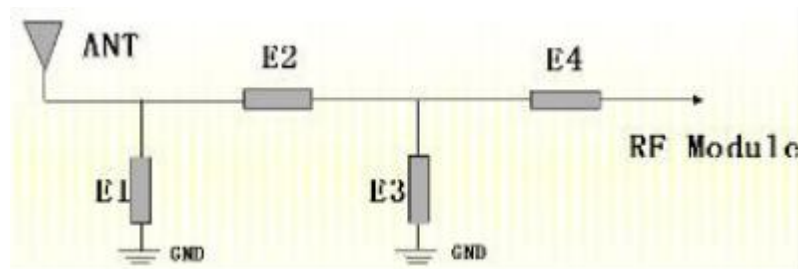
深圳市拓频物联技术有限公司

SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.

天线壳料(Antenna shell material)



匹配电路说明 (Antenna circuit matching description)



Element	并位 (Andposition)	串位 (Misplacement)
E1(0201)	5.6NH	--
E2(0201)	--	3.3PF
E3(0201)	--	--
E4(0201)	--	--

主天线匹配



深圳市拓频物联技术有限公司

SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.

Antenna Performance Table

		Channel No.	TRP (dBm)	Whole Band TRP (dBm)	TIS (dBm)	Whole Band TIS (dBm)
LTE	FDD B2	L	13.89			
		M	13.69			
		H	14.25		-85.28	
	FDD B4	L	12.90			
		M	13.41			
		H	14.01		-85.07	
	FDD B5	L	11.68			
		M	11.70			
		H	12.08		-79.08	
	FDD B7	L	14.51			
		M	13.38			
		H	14.76		-84.67	



Antenna Performance Table

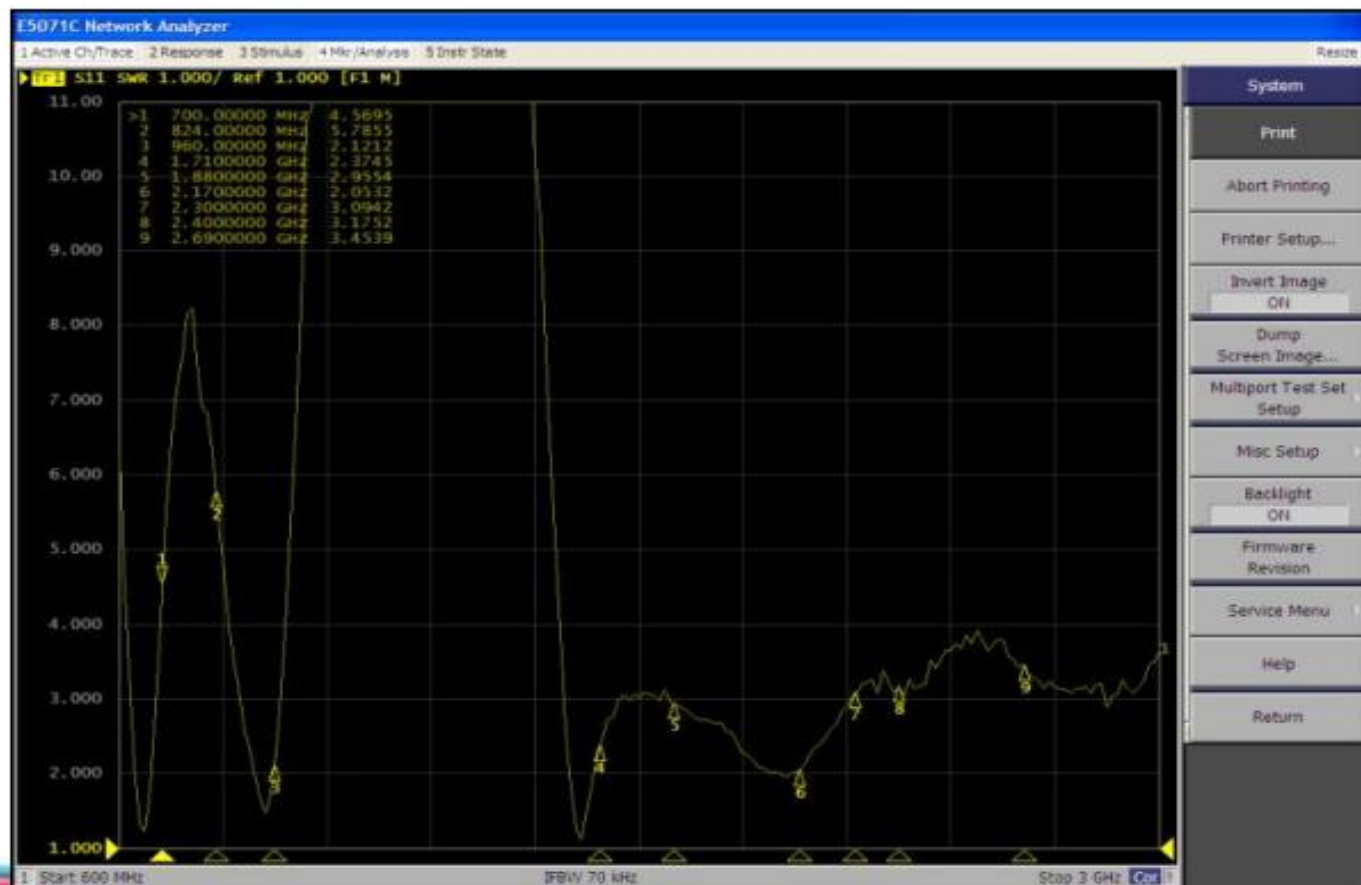
		Channel No.	TRP (dBm)	Whole Band TRP (dBm)	TIS (dBm)	Whole Band TIS (dBm)
LTE	FDD B12	L	5.06			
		M	6.15			
		H	6.38		-75.09	
	FDD B13	L	8.90			
		M	9.07			
		H	9.60		-77.53	
	TDD B41	L	14.68			
		M	15.70			
		H	14.83		-84.91	



深圳市拓频物联技术有限公司

SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.

LTE-RF1天线无源图- (SWR/Log Mag /Smith)



System

Print

Abort Printing

Printer Setup...

Invert Image

ON

Dump
Screen Image...

Multipoint Test Set
Setup

Misc Setup

Backlight

ON

Firmware
Revision

Service Menu

Help

Return

Frequency	Efficiency	Gain. dBi
-----------	------------	-----------

800MHz	5%	-8.17
--------	----	-------

820MHz	6%	-7.78
--------	----	-------

840MHz	7%	-6.86
--------	----	-------

860MHz	9%	-6.10
--------	----	-------

880MHz	10%	-5.52
--------	-----	-------

900MHz	9%	-5.76
--------	----	-------

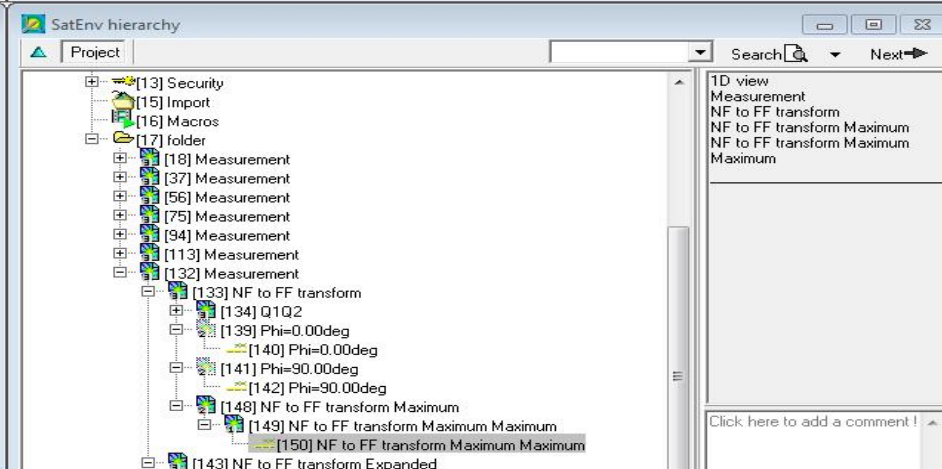
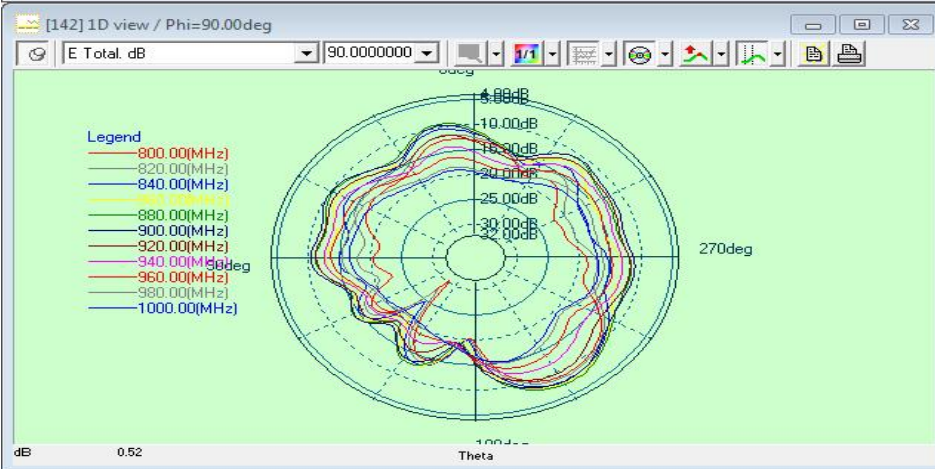
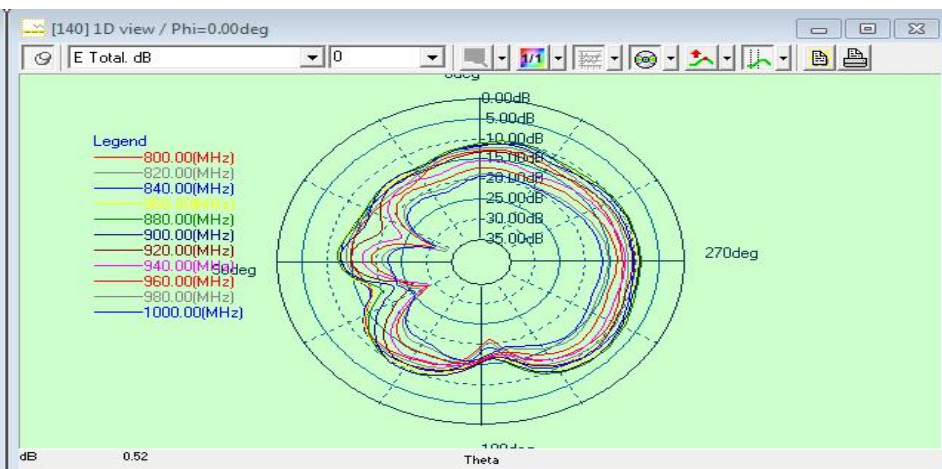
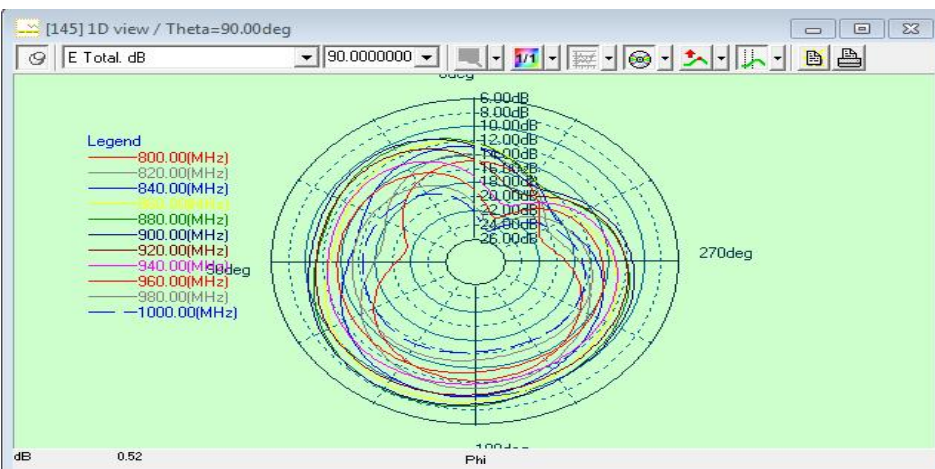
920MHz	7%	-7.31
--------	----	-------

940MHz	6%	-9.22
--------	----	-------

960MHz	4%	-11.18
--------	----	--------

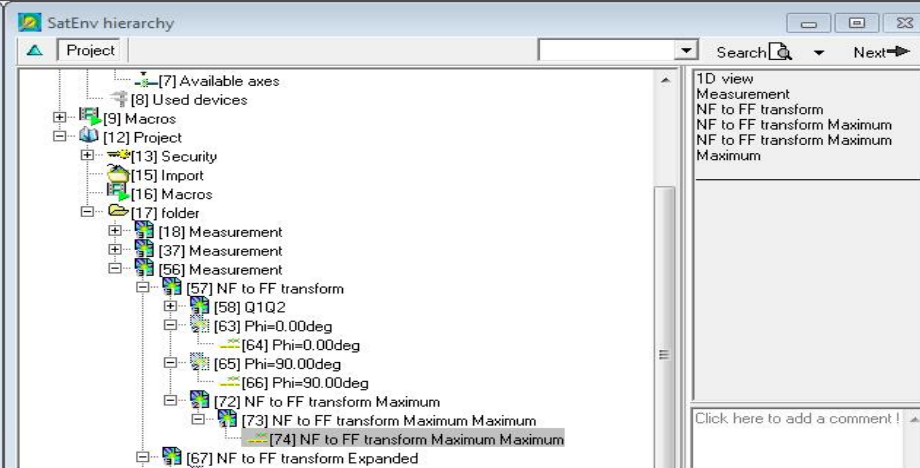
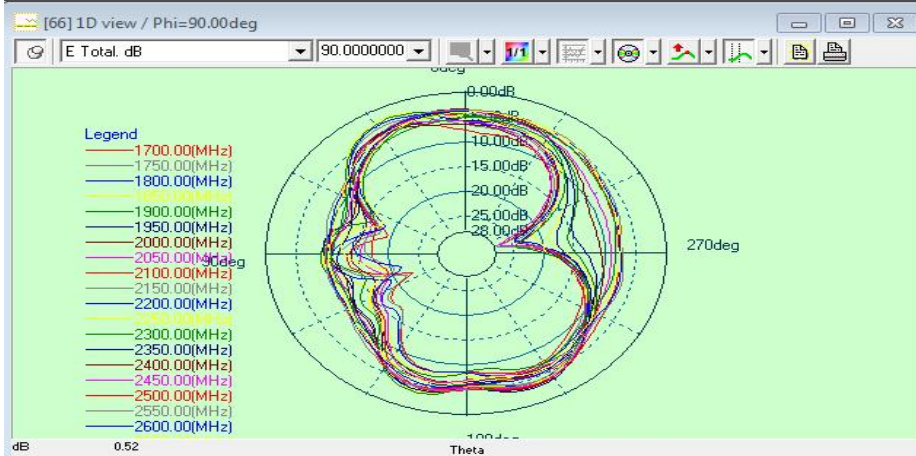
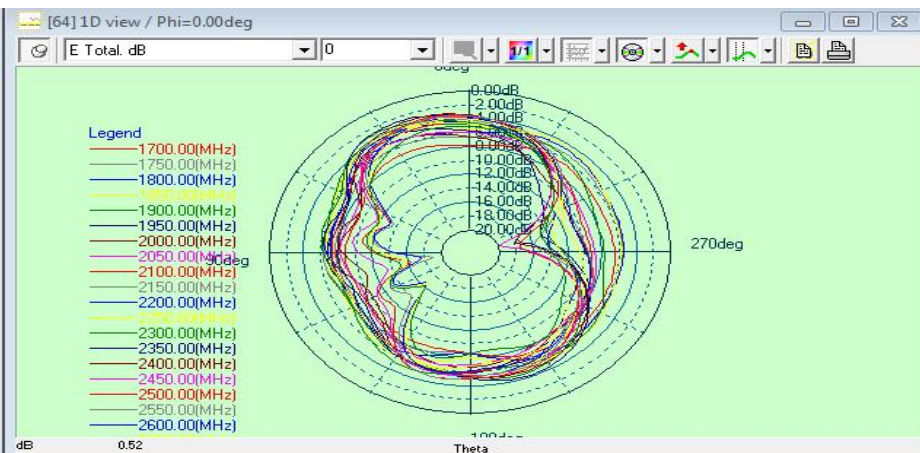
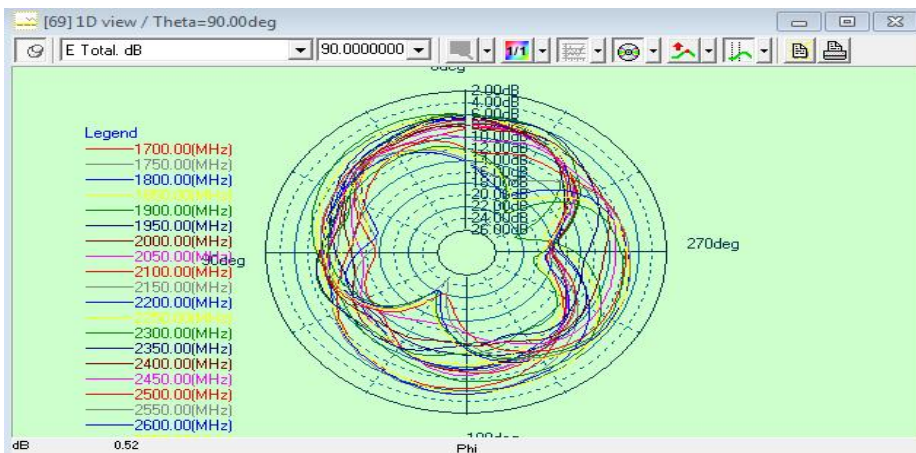
980MHz	4%	-12.93
--------	----	--------

1000MHz	3%	-14.06
---------	----	--------



Frequency Efficiency Gain. dBi

1700MHz	12%	-4.94
1750MHz	15%	-3.70
1800MHz	17%	-3.15
1850MHz	19%	-2.39
1900MHz	20%	-2.12
1950MHz	14%	-3.14
2000MHz	12%	-3.82
2050MHz	12%	-3.84
2100MHz	14%	-3.49
2150MHz	15%	-2.85
2200MHz	14%	-3.16
2250MHz	14%	-3.26
2300MHz	16%	-2.72
2350MHz	17%	-2.24
2400MHz	16%	-2.45
2450MHz	15%	-2.88
2500MHz	16%	-3.03
2550MHz	17%	-3.35
2600MHz	15%	-3.83
2650MHz	14%	-3.88
2700MHz	12%	-4.87

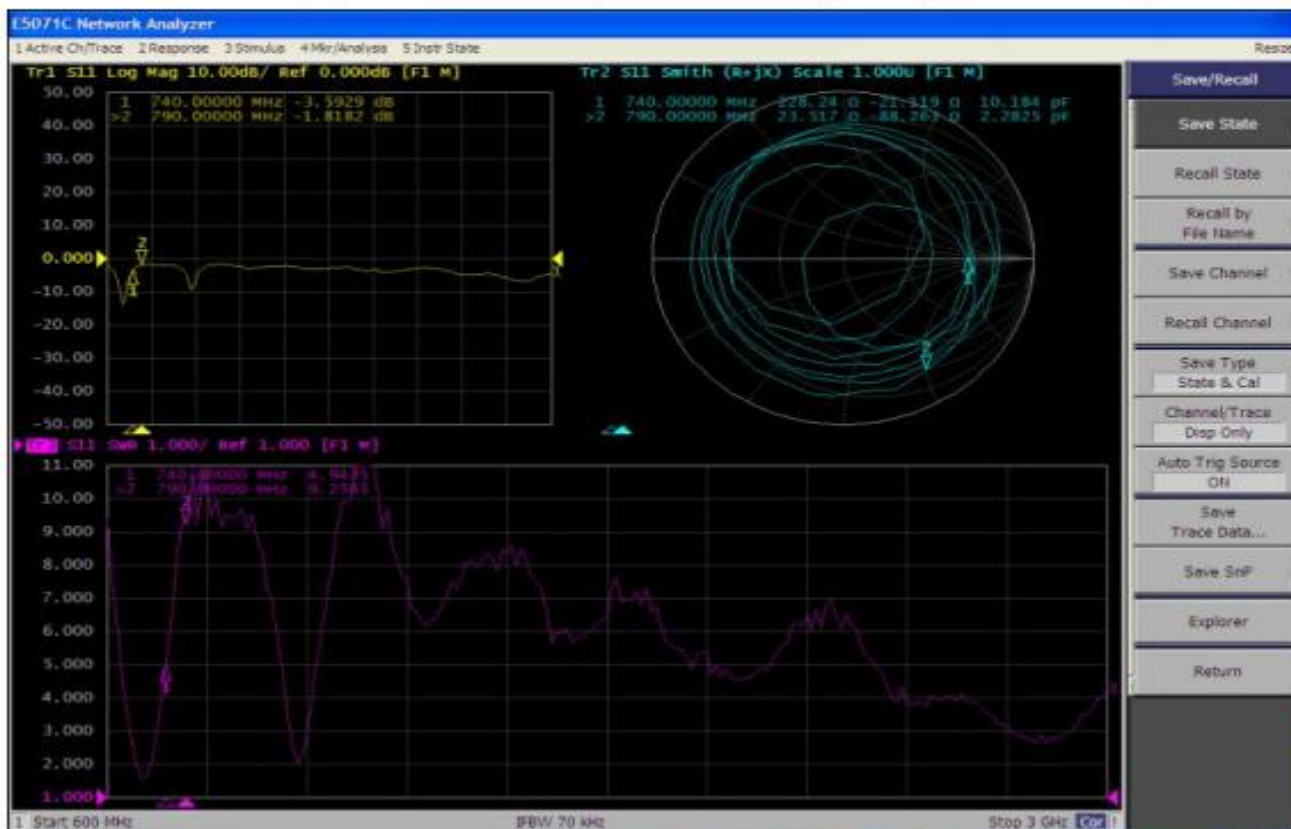




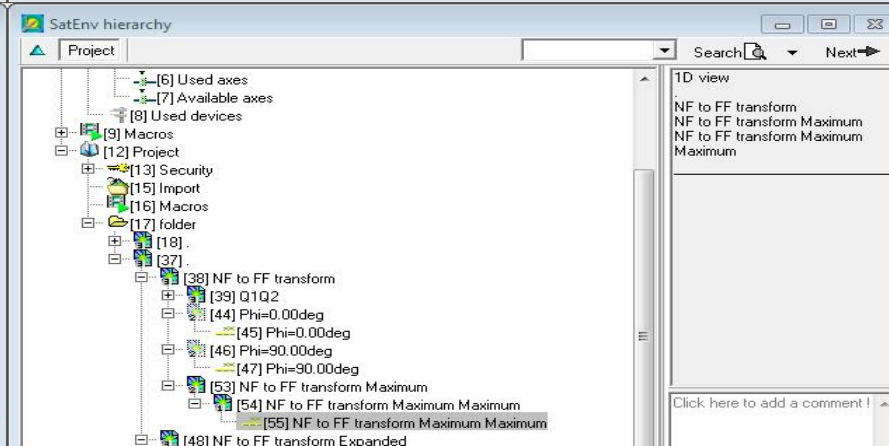
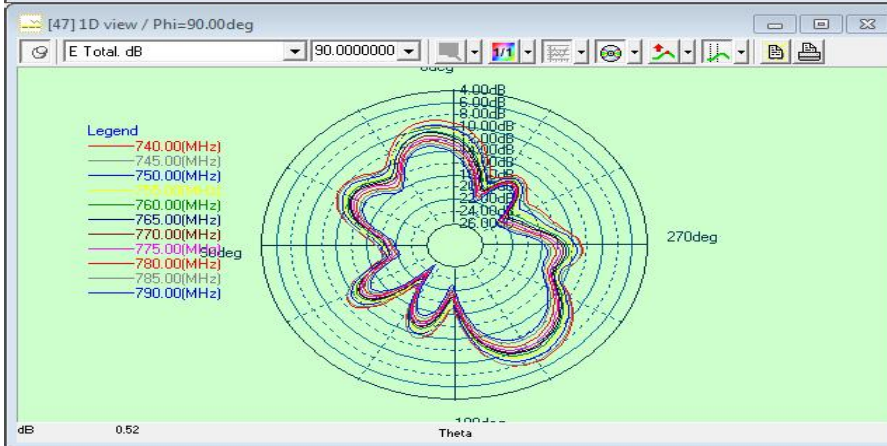
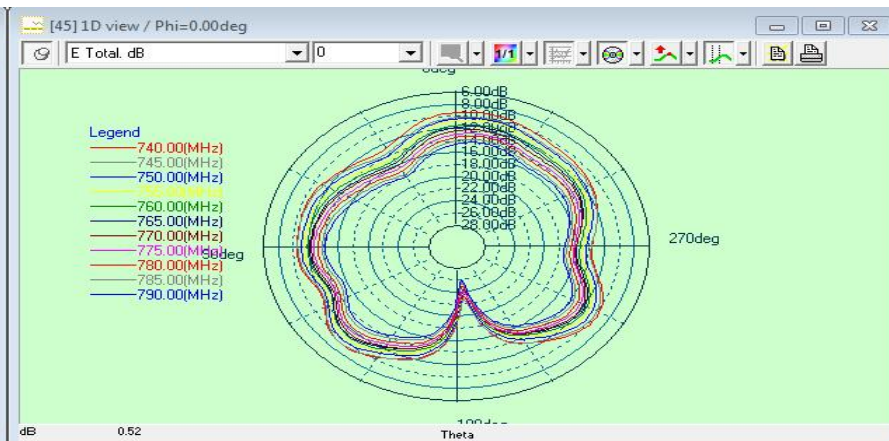
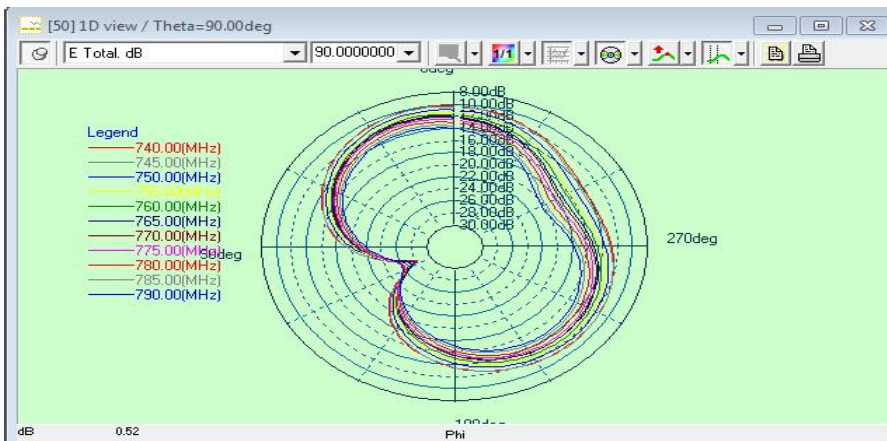
深圳市拓频物联技术有限公司

SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.

LTE-RF3天线无源图- (SWR/Log Mag /Smith)



Frequency	Efficiency()	Frequency
740MHz	6%	-7.33
745MHz	6%	-7.50
750MHz	5%	-8.11
755MHz	5%	-8.63
760MHz	4%	-9.07
765MHz	4%	-9.44
770MHz	4%	-9.67
775MHz	3%	-10.13
780MHz	3%	-10.67
785MHz	3%	-11.37
790MHz	2%	-11.88

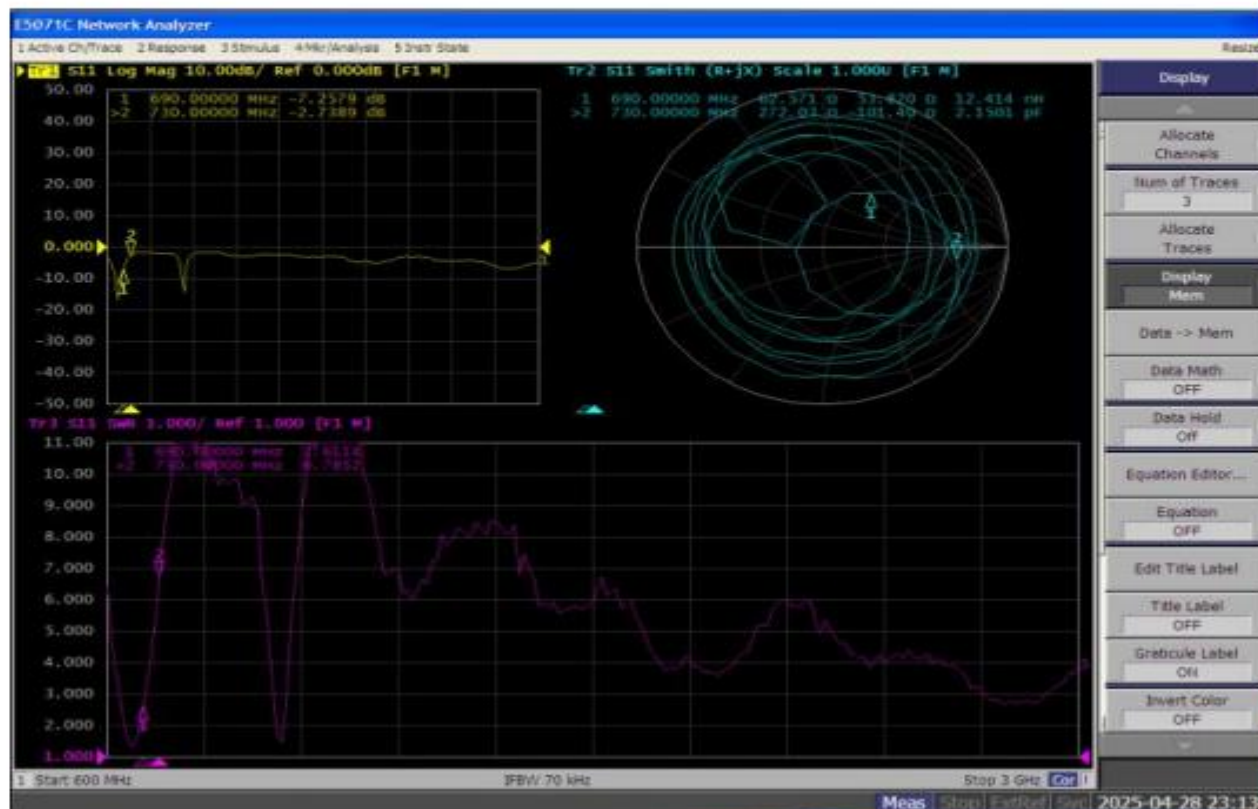




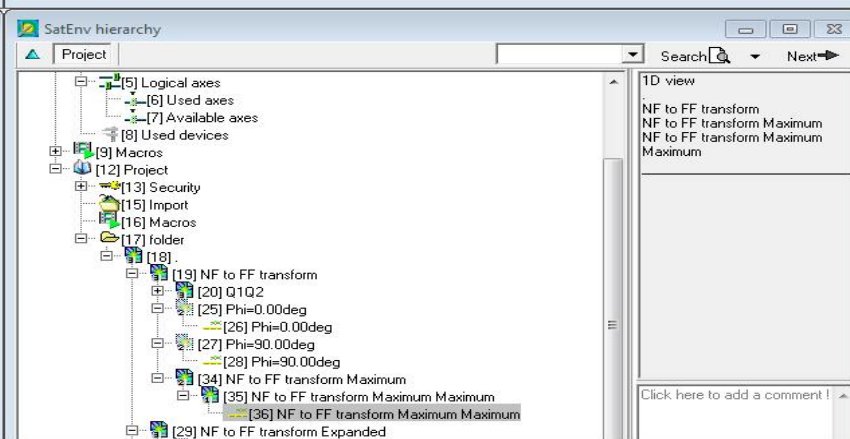
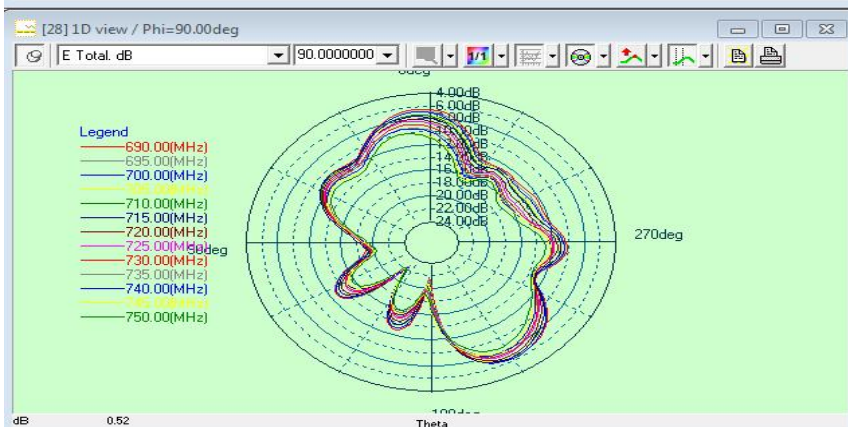
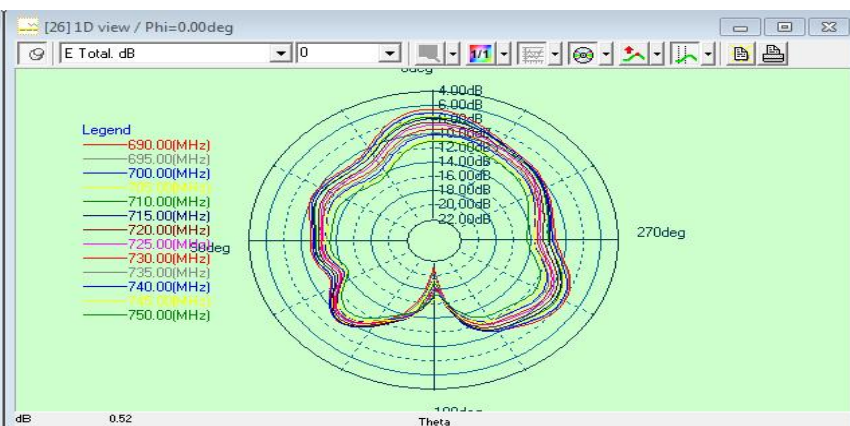
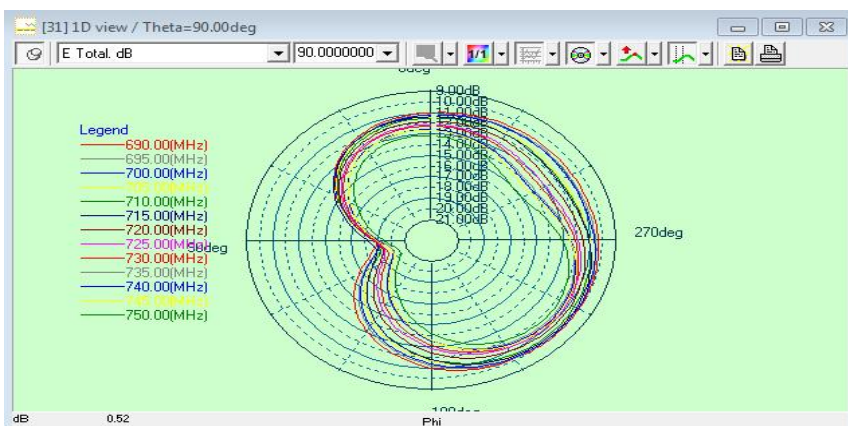
深圳市拓频物联技术有限公司

SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.

LTE-RF2天线无源图- (SWR/Log Mag /Smith)



Frequency	Efficiency	Gain dBi
690MHz	8%	-6.50
695MHz	8%	-6.54
700MHz	8%	-6.48
705MHz	7%	-6.74
710MHz	7%	-6.68
715MHz	7%	-6.69
720MHz	7%	-6.99
725MHz	6%	-7.39
730MHz	6%	-7.52
735MHz	5%	-7.90
740MHz	5%	-7.87
745MHz	5%	-8.01
750MHz	4%	-8.57





深圳市拓频物联技术有限公司

SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.





深圳市拓频物联技术有限公司

SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.



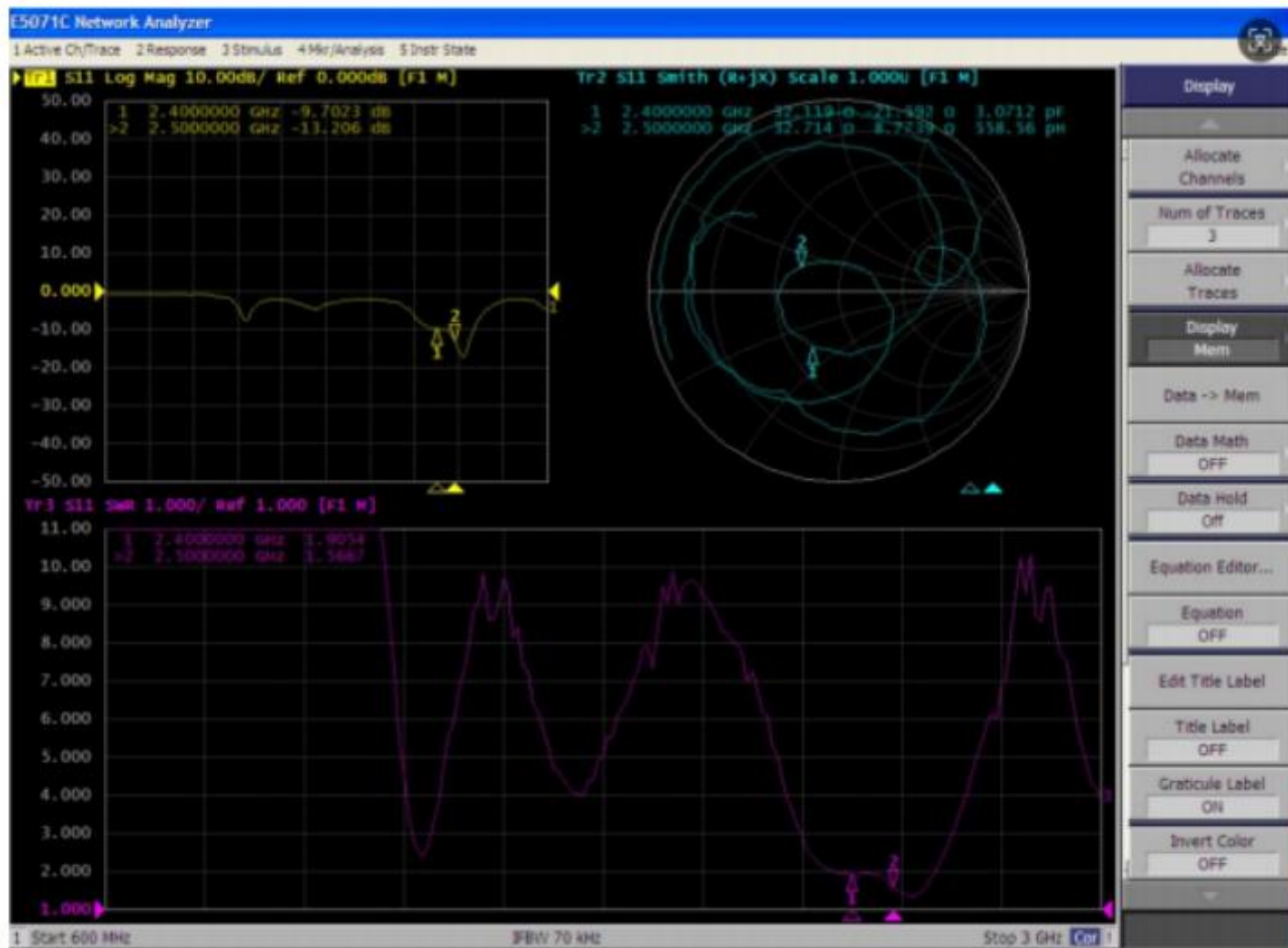
镭雕天线布局 (Laser antenna layout)



深圳市拓频物联技术有限公司

SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.

BT无源数据

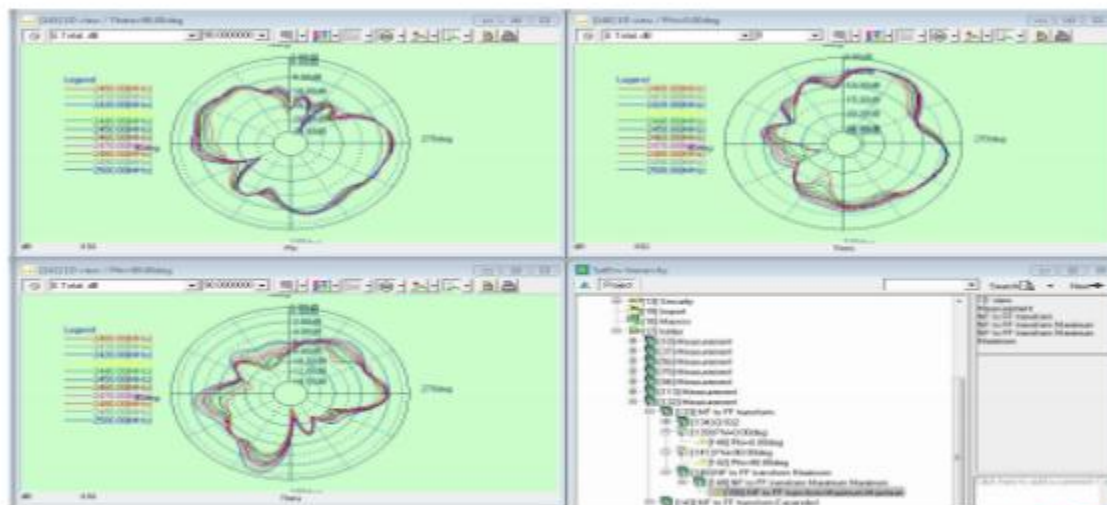




深圳市拓频物联技术有限公司

SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.

Frequency	Efficiency	Gain dBi
2400MHz	19%	-2.35
2410MHz	20%	-2.07
2420MHz	20%	-1.91
2430MHz	20%	-1.77
2440MHz	20%	-1.64
2450MHz	21%	-1.67
2460MHz	22%	-1.55
2470MHz	22%	-1.32
2480MHz	22%	-0.97
2490MHz	24%	-0.21
2500MHz	25%	0.12





深圳市拓频物联技术有限公司

SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.

以上为TR3C美版天线数据报告！

The above is the TR3C US antenna data report!





深圳市拓频物联技术有限公司
SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.

感谢您的评论！

Thanks for your comment!

深圳市拓频物联技术有限公司

Shenzhen Toppin Iot Technology Co., LTD

