



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



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Summary



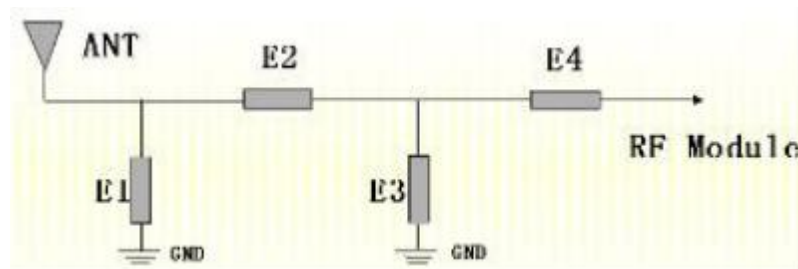
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天线壳料(Antenna shell material)



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



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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

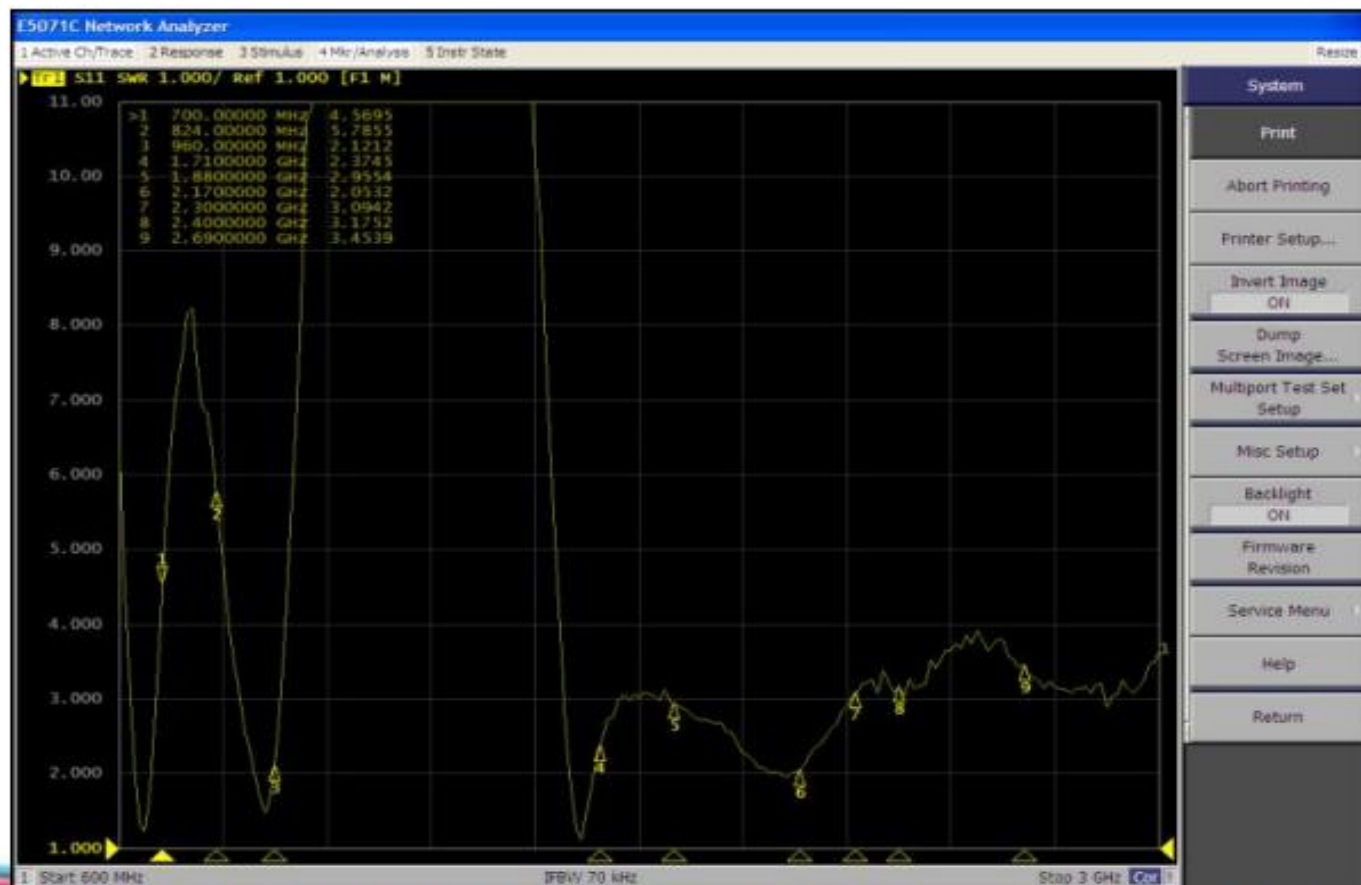
		Channel No.	TRP (dBm)	Whole Band TRP (dBm)	TIS (dBm)	Whole Band TIS (dBm)
LTE	FDD B12	L	5.06			
		M	6.15			
		H	6.38		-75.09	
	FDD B13	L	8.90			
		M	9.07			
		H	9.60		-77.53	
	TDD B41	L	14.68			
		M	15.70			
		H	14.83		-84.91	



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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
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800MHz	5%	-8.17
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820MHz	6%	-7.78
--------	----	-------

840MHz	7%	-6.86
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860MHz	9%	-6.10
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880MHz	10%	-5.52
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900MHz	9%	-5.76
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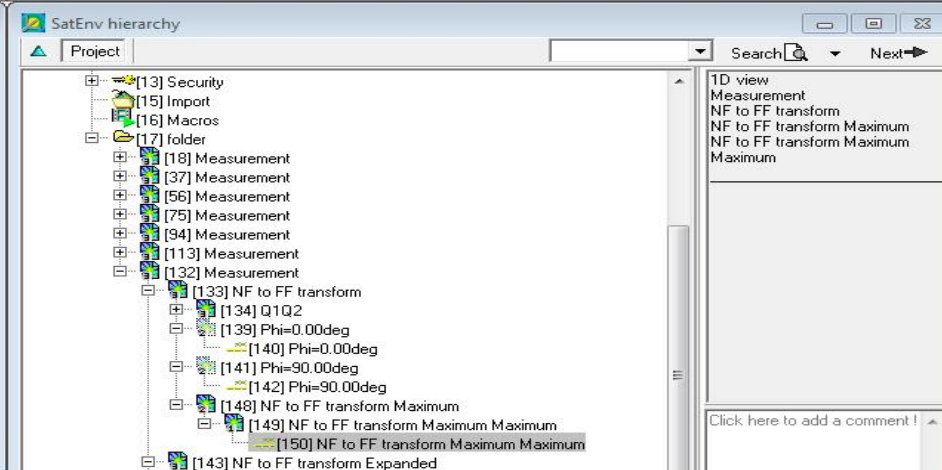
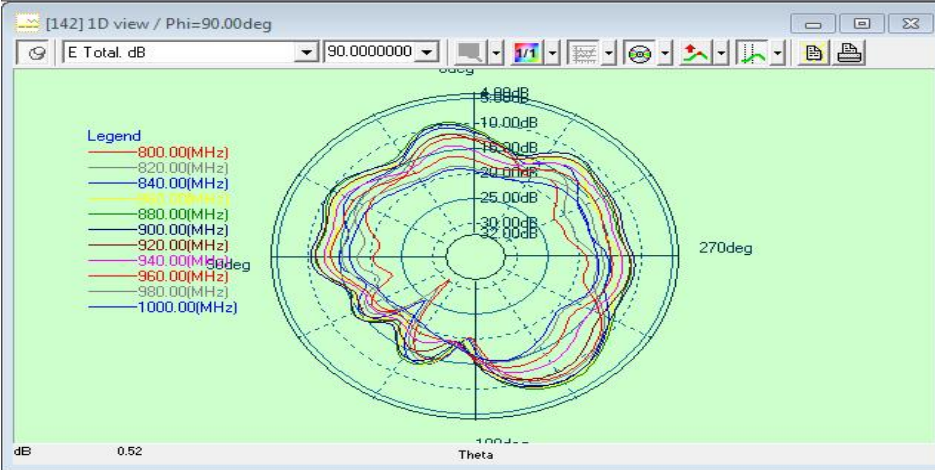
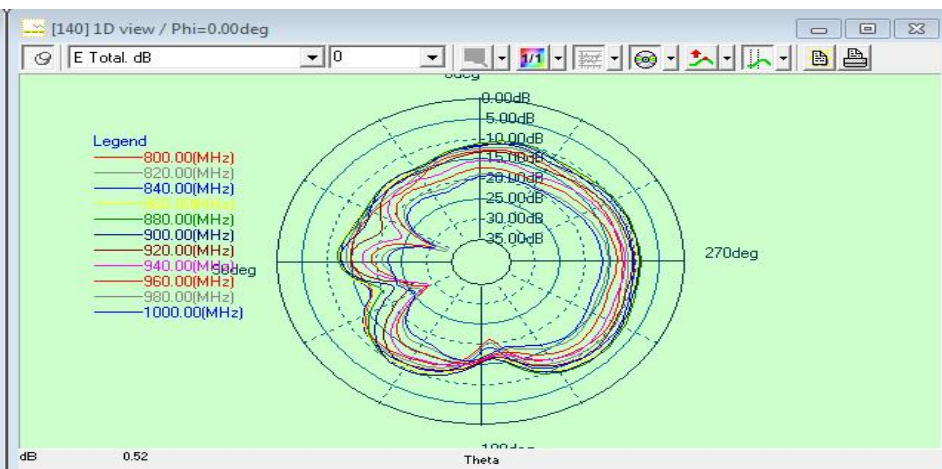
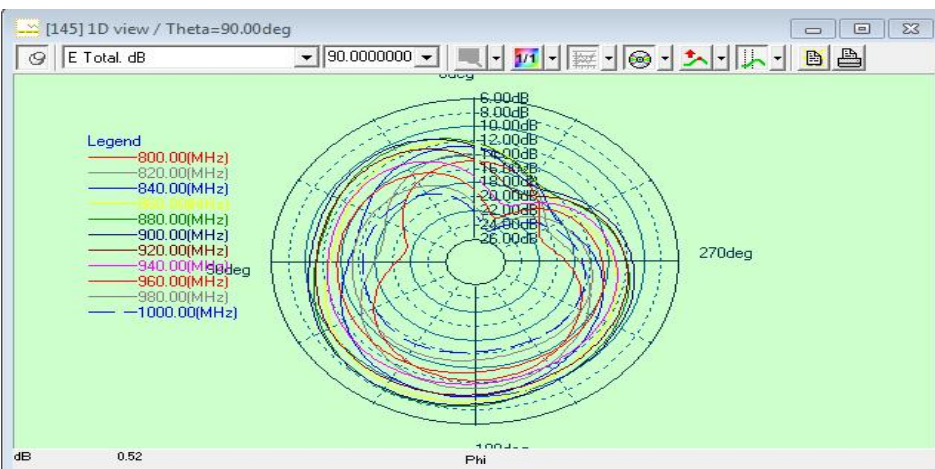
920MHz	7%	-7.31
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940MHz	6%	-9.22
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960MHz	4%	-11.18
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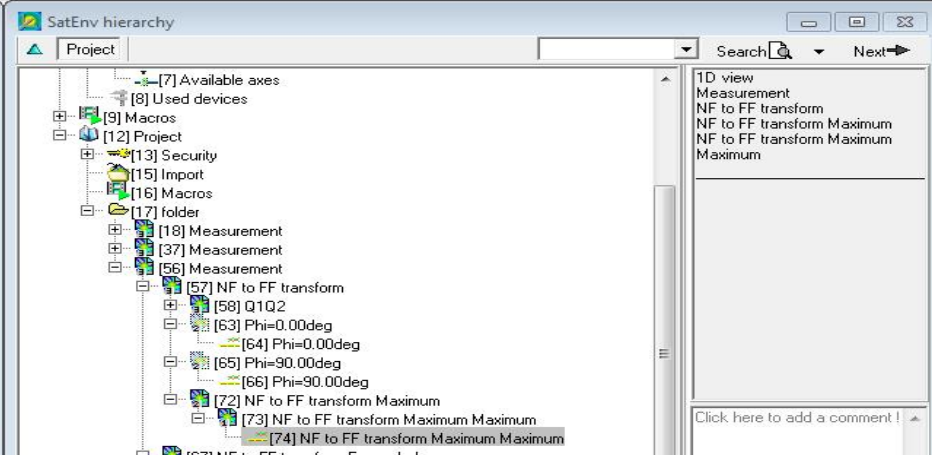
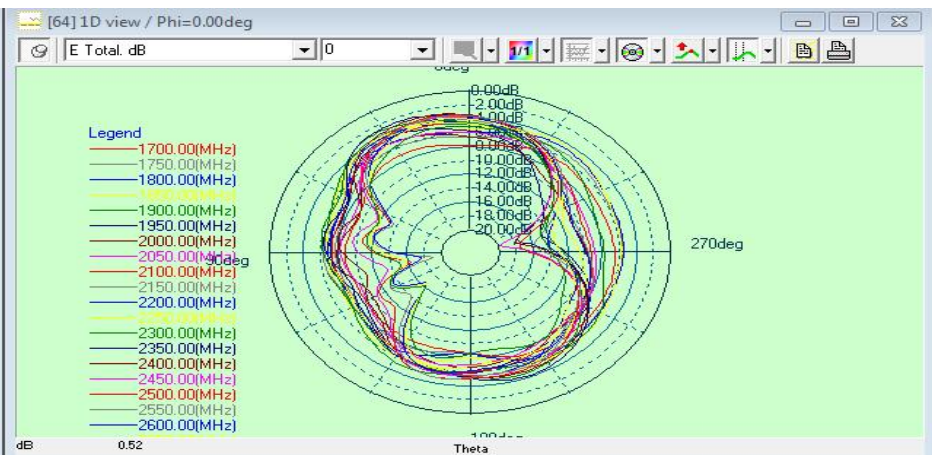
980MHz	4%	-12.93
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1000MHz	3%	-14.06
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Frequency Efficiency Gain. dBi

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

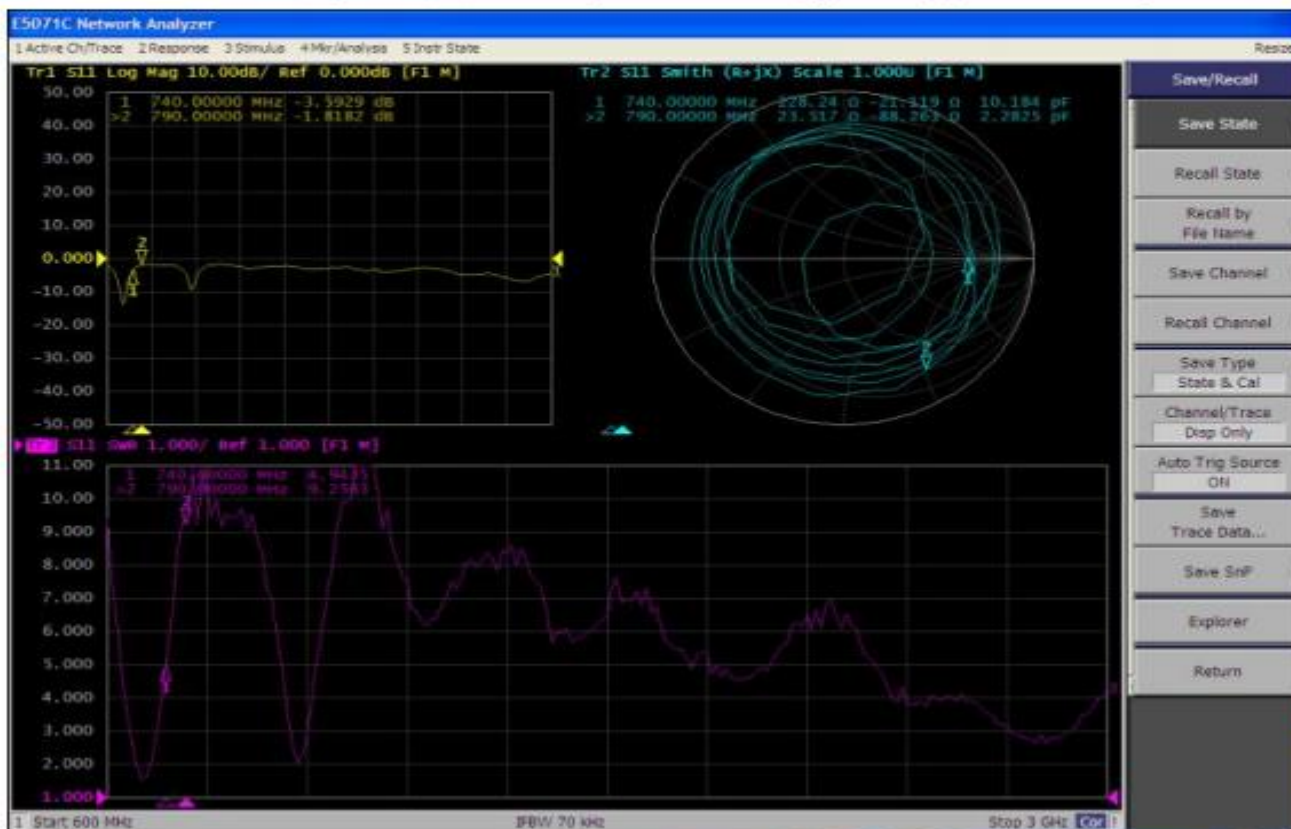




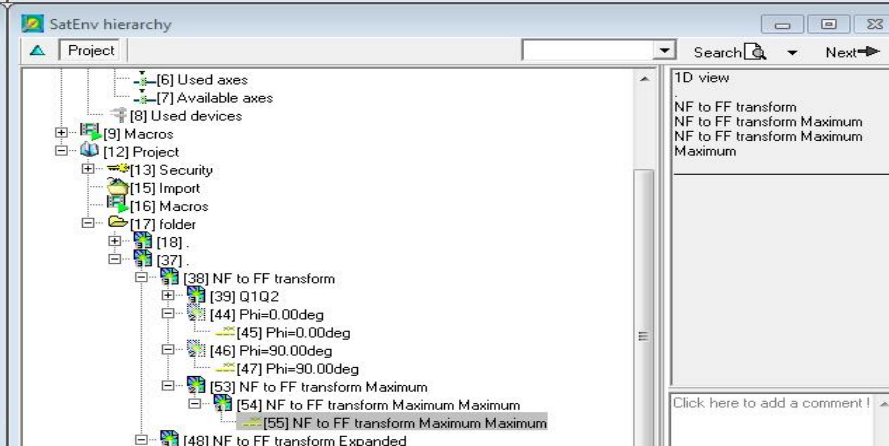
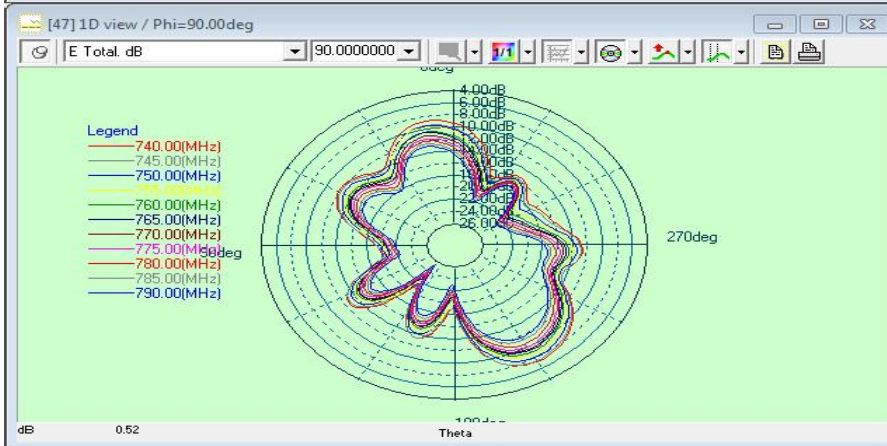
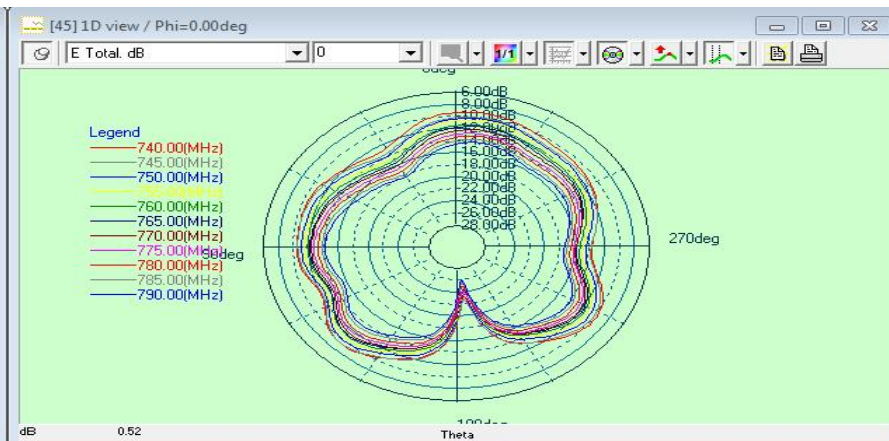
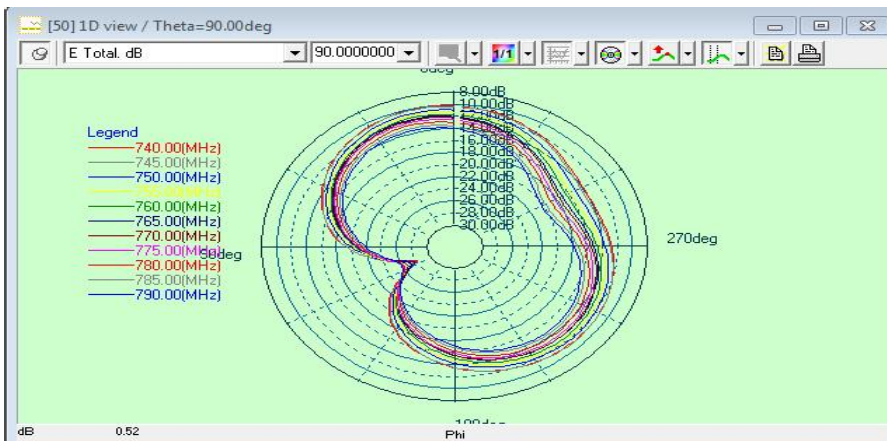
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LTE-RF3天线无源图- (SWR/Log Mag /Smith)



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

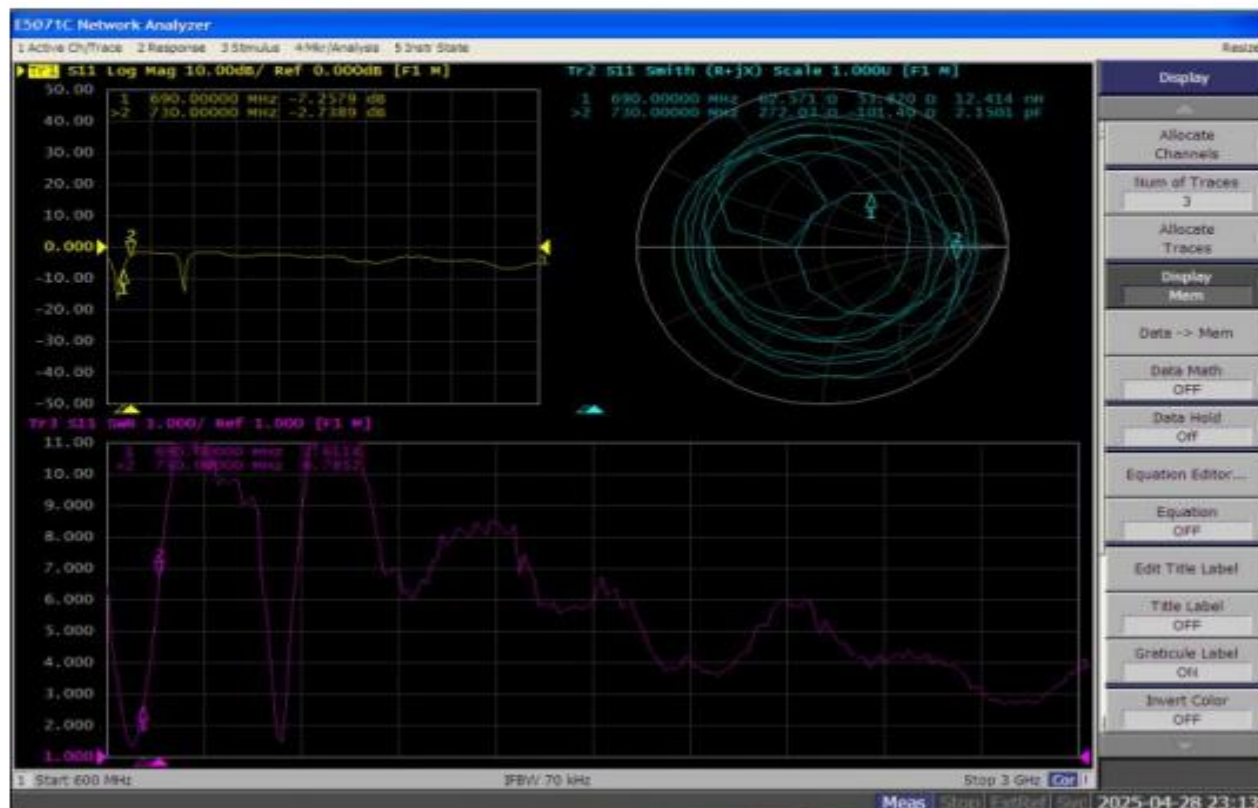




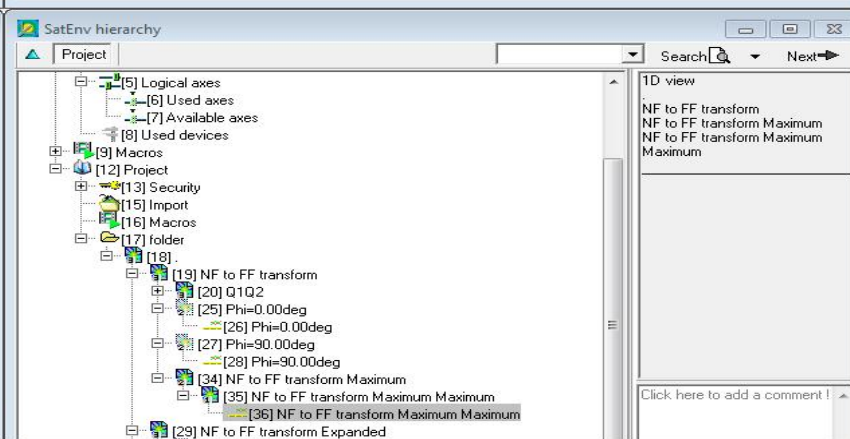
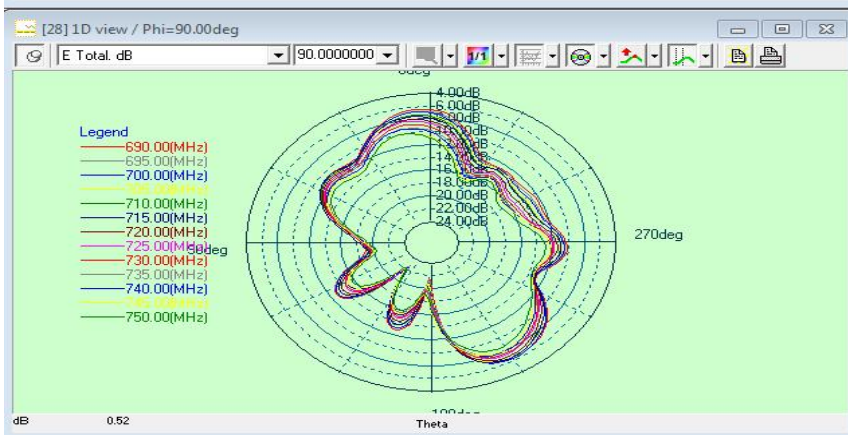
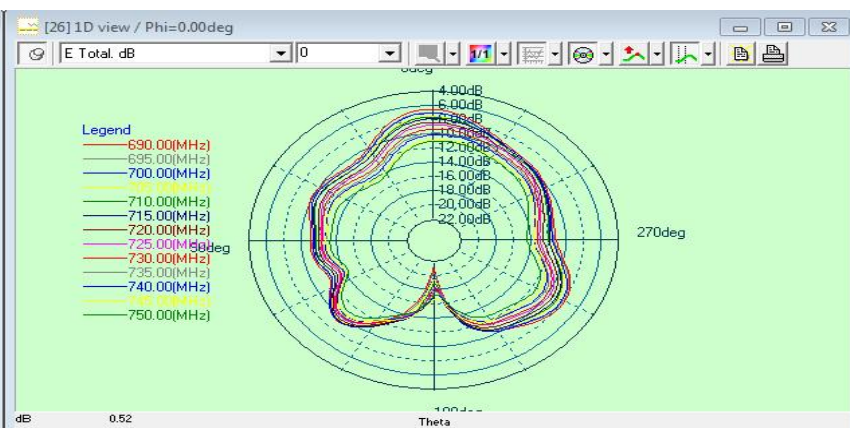
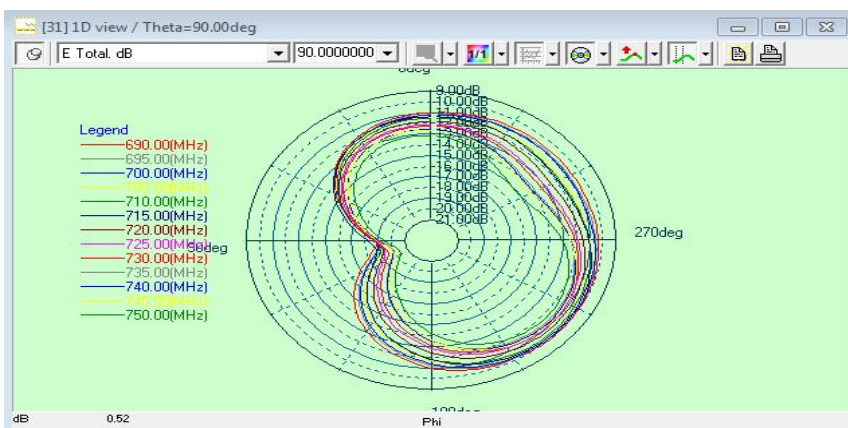
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LTE-RF2天线无源图- (SWR/Log Mag /Smith)



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





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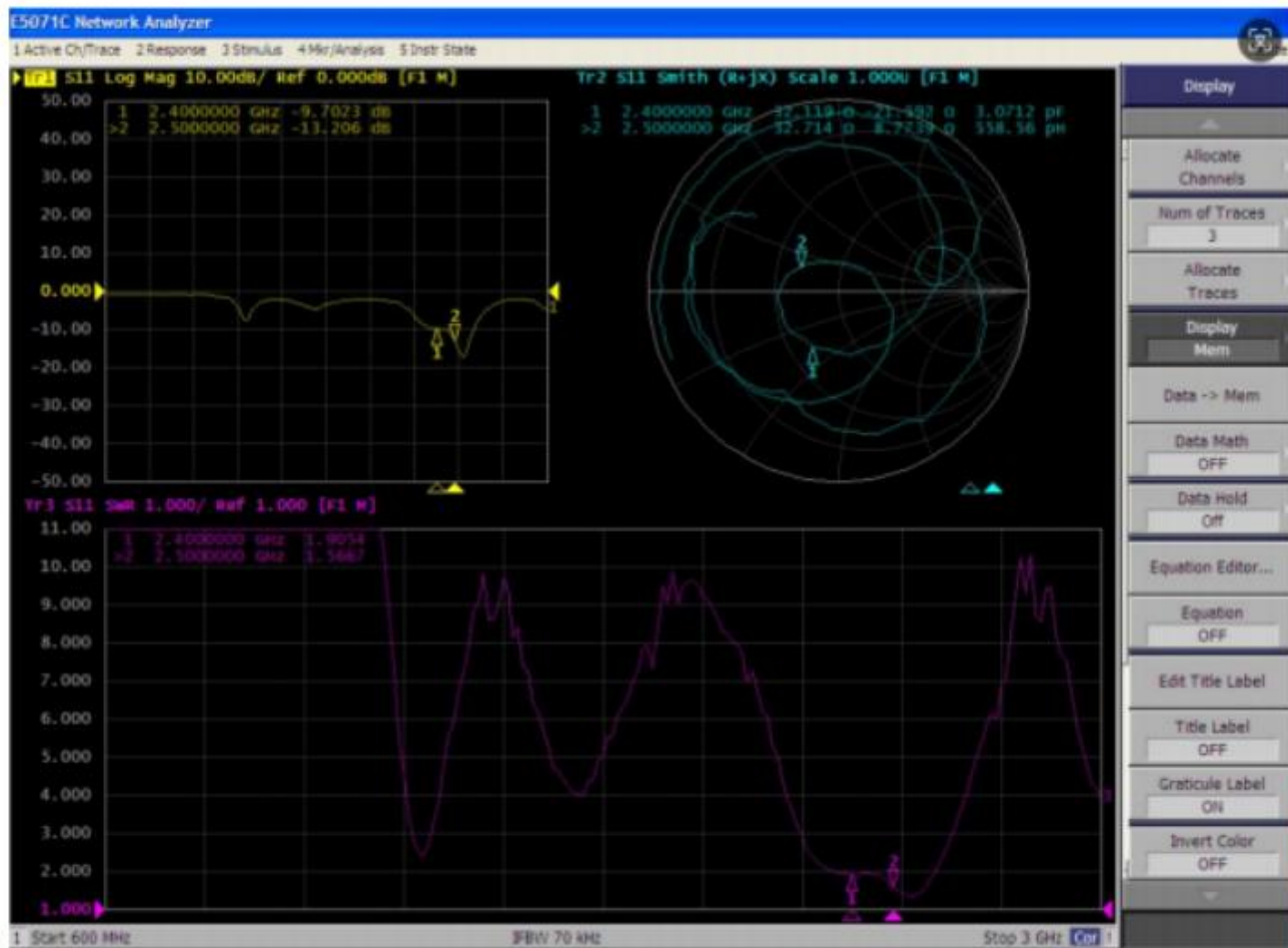
镭雕天线布局 (Laser antenna layout)



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BT无源数据

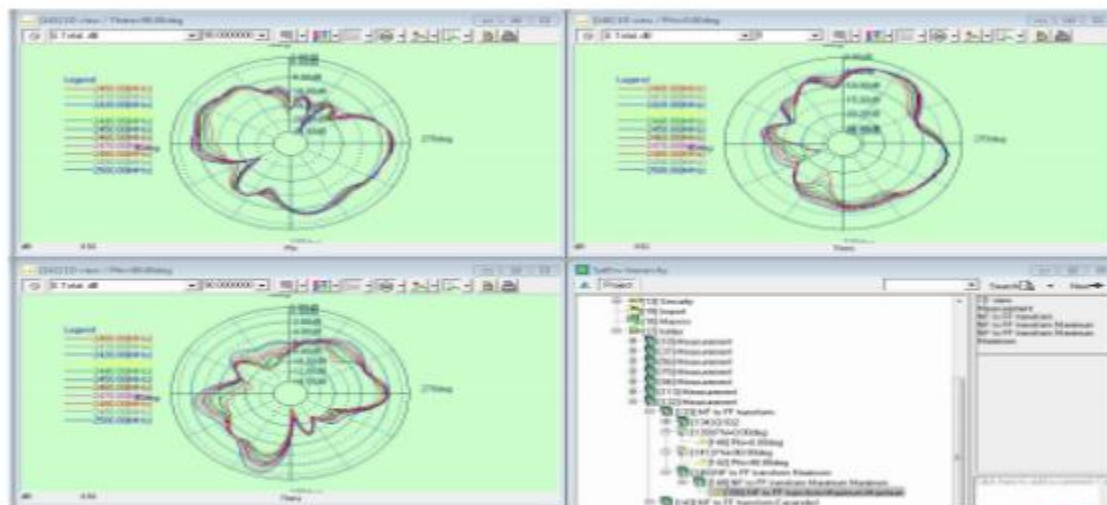




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Frequency	Efficiency	Gain dBi
2400MHz	19%	-2.35
2410MHz	20%	-2.07
2420MHz	20%	-1.91
2430MHz	20%	-1.77
2440MHz	20%	-1.64
2450MHz	21%	-1.67
2460MHz	22%	-1.55
2470MHz	22%	-1.32
2480MHz	22%	-0.97
2490MHz	24%	-0.21
2500MHz	25%	0.12





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以上为TR3C美版天线数据报告！

The above is the TR3C US antenna data report!





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感谢您的评论！

Thanks for your comment!

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