



旗开 S6325B 天线报告

Antenna Design And Test Report

报告日期：2026年7月13日星期一



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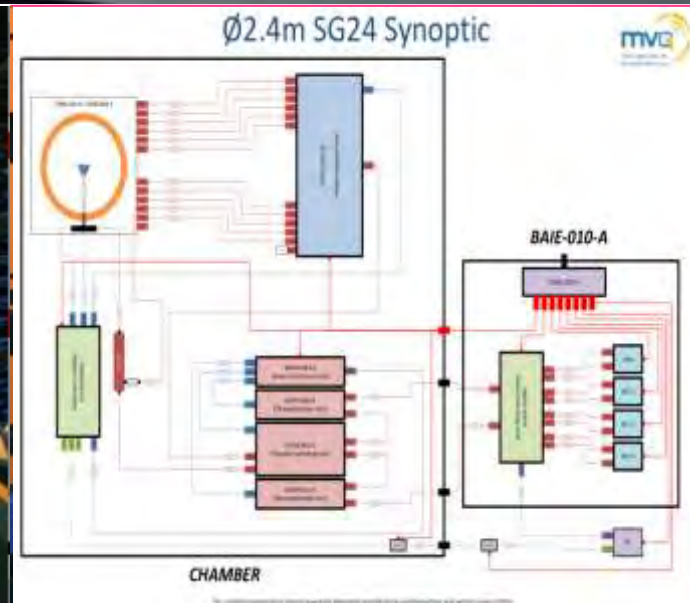
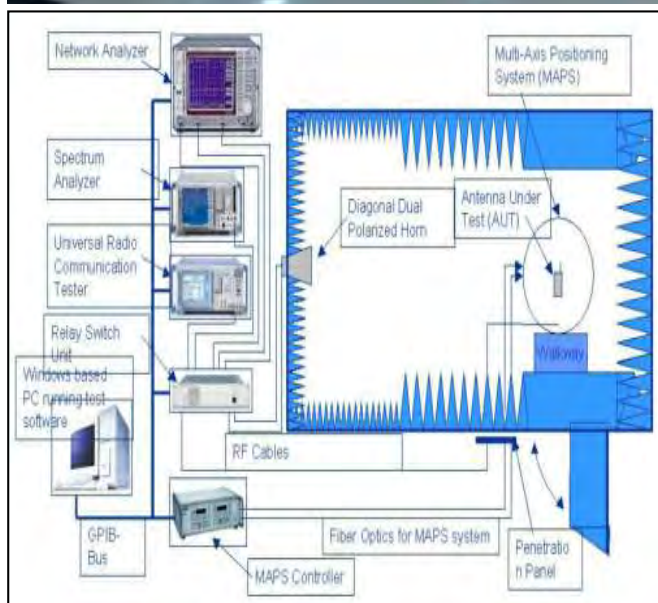
Sum up

项目概述



主天线设计频段: main antenna design spectrum	GSM : 850/900/1800/1900 WCDMA: W1/2/4/5/8 FDD:B1/2/3/4/5/7/8/12/17/19/20/26 28/66 TDD:B38/40/41
天线类型: Type of antenna	FPC
副天线设计频段: Deputy antenna design spectrum	GPS/WIFI/BT
天线类型: Type of antenna	FPC

报告版本: Report version	日期 Date	内容 Content
v1.0	2026.6.16	样机天线测试报告



3座远场3D全电波微波暗室实验室系统，1座MVG SG24LT（Satmio）近场3D微波暗室实验室系统（与国家相关实验室同步）



产品图





Band	CH	1#		2#		3#		4#	
		TRP	TIS	TRP	TIS	TRP	TIS	TRP	TIS
G850	L	25.07		25.05		25.71		25.41	
	M	25.92		25.89		25.92		25.79	
	H	26.27	-102.56	26.31	-102.77	25.72	-102.1	25.57	-102.02
G900	L	24.98		25.06		25.16		25.15	
	M	25.56		25.83		25.24		25.38	
	H	25.62	-102.13	25.86	-102.23	25.04	-102.03	25.54	-101.88
DCS1800	L	23.06		24.36		23.77		24.36	
	M	24.21		24.75		23.18		24.75	
	H	24.24	-105.22	24.23	-105.93	23.52	-105.67	24.23	-106.53
PCS1900	L	25.65		25.69		25.11		24.09	
	M	25.17		25.08		25.45		25.56	
	H	25.52	-106.21	25.01	-105.66	25.31	-106.7	25.48	-106.72



Band	CH	1#		2#		3#		4#	
		TRP	TIS	TRP	TIS	TRP	TIS	TRP	TIS
W1	L	17.87		17.53		17.71		17.65	
	M	18.34		17.81		18.92		18.94	
	H	18.79	-106.93	17.21	-106.65	18.72	-106.8	18.3	-107.02
W2	L	18.48		18.21		18.16		18.23	
	M	18.87		18.53		18.24		18.63	
	H	19.69	-108.93	18.09	-108.38	17.04	-108.93	17.66	-108.88
W4	L	17.19		17.08		17.13		17.63	
	M	17.18		17.05		17.35		17.88	
	H	17.69	-106.49	17.57	-106.54	17.83	-106.53	17.59	-106.53
W5	L	16.86		16.13		16.25		16.62	
	M	16.85		16.36		16.18		16.15	
	H	16.46	-104.87	16.2	-105.15	15.73	-105.37	17.6	-105.22
W8	L	16.42		16.97		16.15		16.82	
	M	16.36		16.21		16.57		16.76	
	H	16.21	-103.88	16.29	-103.57	16.39	-103.58	16.11	-103.28



Band	CH	1#		2#		3#		4#	
		TRP	TIS	TRP	TIS	TRP	TIS	TRP	TIS
LTE B1 10M	L	18.12		18.09		18.39		18.38	
	M	18.56		18.45		18.14		18.79	
	H	19.13	-93.81	19.06	-94.35	18.92	-93.89	19.33	-94.29
LTE B2 10M	L	18.91		19.33		19.42		19.11	
	M	19.2		19.46		18.88		19.24	
	H	19.04	-93.91	19.4	-93.75	18.98	-93.84	19.56	-94.21
LTE B3 10M	L	17.19		17.43		17.79		17.5	
	M	17.52		17.86		18.11		17.81	
	H	18.21	-93.29	18.55	-93.16	18.76	-93.15	18.39	-93.59
LTE B4 10M	L	17.24		17.43		18.83		17.46	
	M	17.24		17.47		18.61		17.45	
	H	17.6	-93.12	17.84	-93.56	17.26	-93.46	17.82	-93.42



Band	CH	1#		2#		3#		4#	
		TRP	TIS	TRP	TIS	TRP	TIS	TRP	TIS
LTE B5 10M	L	16.72		16.8		16.35		16.63	
	M	16.54		16.9		16.34		16.38	
	H	16.34	-92.51	16.87	-92.88	16.04	-92.42	16.05	-92.55
LTE B7 10M	L	18.83		18.73		18.99		18.02	
	M	18.16		18.08		18.86		17.54	
	H	17.92	-91.74	17.77	-92.07	17.16	-92.12	17.87	-91.85
LTE B8 10M	L	16.14		16.11		15.84		16.24	
	M	16.29		16.32		16.11		16.39	
	H	16.52	-92.44	16.45	-92.61	16.21	-92.39	16.24	-92.23
LTE B12 10M	L	16.74		17.09		17.11		16.71	
	M	16.84		17.38		16.85		16.76	
	H	16.76	-92.51	17.23	-92.4	16.61	-92.58	16.62	-92.31



Band	CH	1#		2#		3#		4#	
		TRP	TIS	TRP	TIS	TRP	TIS	TRP	TIS
LTE B17 10M	L	16.89		17.02		17.17		16.96	
	M	16.76		17.19		17.17		17.01	
	H	16.81	-91.59	17.16	-91.19	17.14	-91.33	17.06	-91.35
LTE B19 10M	L	16.6		16.37		16.77		16.6	
	M	16.56		16.32		16.86		16.39	
	H	16.31	-92.63	16.22	-92.96	16.74	-93.33	16.2	-93.71
LTE B20 10M	L	16.84		17.32		17		17.08	
	M	17.04		17.44		17		17.21	
	H	17.14	-91.63	17.56	-91.76	17.23	-91.37	17.19	-91.47
LTE B26 10M	L	16.58		16.35		16.42		16.57	
	M	16.52		16.39		16.73		16.5	
	H	16.24	-92.44	16.14	-92.92	16.72	-92.9	16.06	-92.45



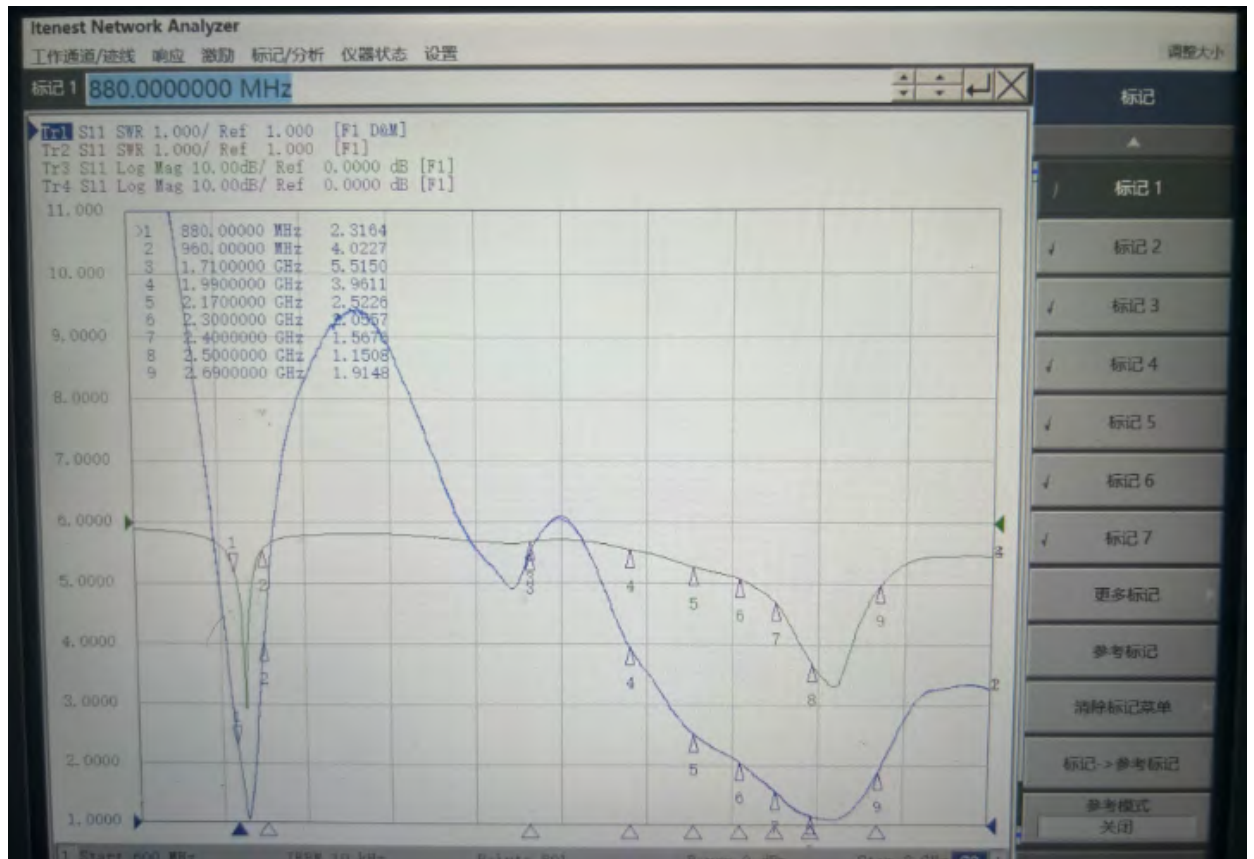
Band	CH	1#		2#		3#		4#	
		TRP	TIS	TRP	TIS	TRP	TIS	TRP	TIS
LTE B28 10M	L	16.66		16.99		17.17		16.65	
	M	16.74		16.14		16.33		16.66	
	H	16.47	-92.08	16.87	-92.03	17.08	-92.21	16.83	-92.24
LTE B38 10M	L	17.99		17.66		17.79		17.85	
	M	17.63		17.79		17.46		17.86	
	H	17.49	-90.97	17.38	-90.64	17.56	-90.67	17.34	-90.51
LTE B40 10M	L	20.16		20.09		19.95		20.04	
	M	19.95		19.84		19.61		20.03	
	H	19.64	-90.64	19.56	-90.81	19.64	-90.64	19.59	-91.31
LTE B41 10M	L	17.67		17.69		18.57		17.99	
	M	17.74		17.1		17.74		17.89	
	H	17.82	-90.03	17.68	-90.3	18.22	-90.23	18.18	-90.82



Band	CH	1#		2#		3#		4#	
		TRP	TIS	TRP	TIS	TRP	TIS	TRP	TIS
LTE B66 10M	L	16.46		16.56		16.71		16.65	
	M	16.8		16.47		16.92		16.94	
	H	17.35	-92.19	17.02	-92.43	17.22	-92.12	17.3	-92.42

Band	CH	1#		2#		3#		4#	
		TRP	TIS	TRP	TIS	TRP	TIS	TRP	TIS
WiFi-B	L	12.14		11.29		10.92		12.33	
	M	13.07		12.77		12.48		12.25	
	H	12.19	-79.82	12.29	-79.37	12.16	-79.23	13	-79.16

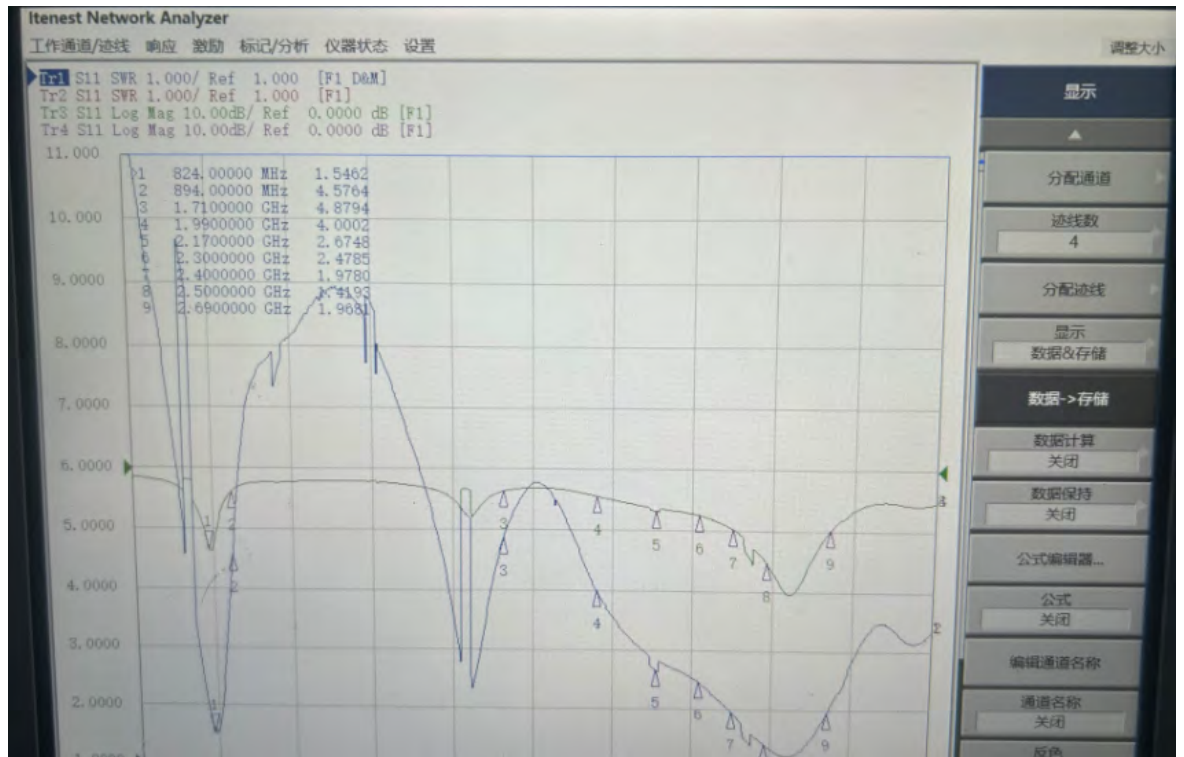
Band	CH	1#	2#	3#	4#
GPS	TRP	38.23	38.09	38.39	38.17
	TIS	-151.16	-151.32	-151.2	-151.04



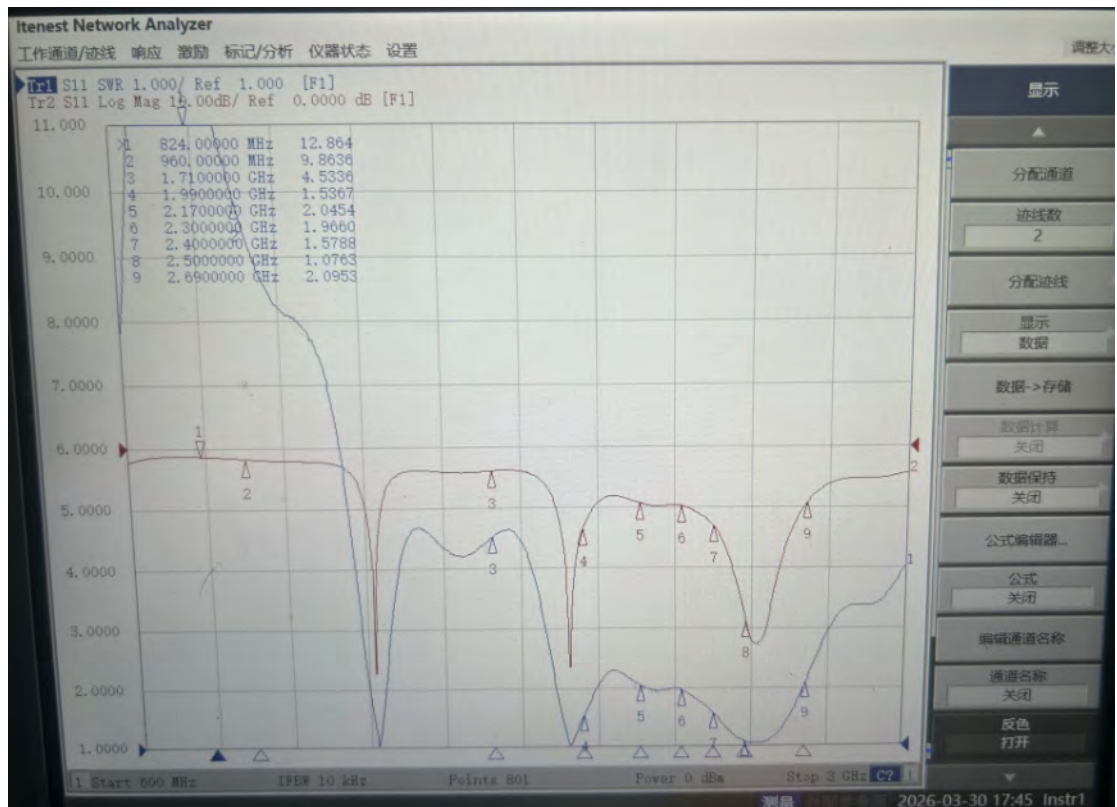
● RF2 (703-803mhz) -TX



- RF3 (824-894MHZ) -TX



-
- RF4 (1700-2700MHZ) -RX



-
- Efficiency and gain
- RF1 (880-960MHz) TX

Frequency	Efficiency	Efficiency	Gain . dB
880000000	15%	-8.4	-1
888000000	18%	-7.4	-1
896000000	21%	-6.7	0.3
904000000	24%	-6.2	1.2
912000000	23%	-6.4	1.2
920000000	21%	-6.7	0.8
928000000	20%	-6.9	0.3
936000000	20%	-7	0.2
944000000	19%	-7.3	-0
952000000	16%	-7.9	-1
960000000	13%	-8.9	-2

- RF2 (703-803mhz) -TX

Frequency	Efficiency	Efficiency	Gain . dB
700000000	25%	-6	-1
711000000	23%	-6.4	-1
722000000	26%	-5.9	-1
733000000	30%	-5.3	-1
744000000	30%	-5.3	-0
755000000	26%	-5.9	-1
766000000	20%	-7	-2
777000000	15%	-8.1	-3
788000000	12%	-9.4	-3
799000000	10%	-9.9	-5
810000000	9%	-10	-5

RF3 (824-894MHZ) -TX

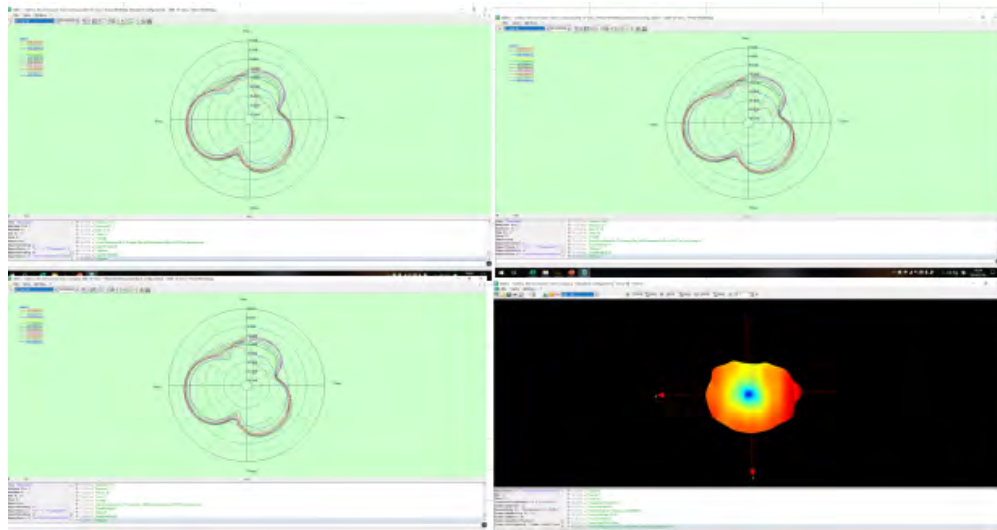
Frequency	Efficiency	Efficiency	Gain . dB
800000000	16%	-8	-2
810000000	18%	-7.5	-3
820000000	20%	-7.1	-1
830000000	21%	-6.8	-1
840000000	20%	-6.9	-0
850000000	20%	-7	0.7
860000000	19%	-7.1	-1
870000000	18%	-7.5	-1
880000000	15%	-8.2	-3
890000000	13%	-8.8	-1
900000000	12%	-9.1	-4

● RF4 (1700-2700MHZ) -RX

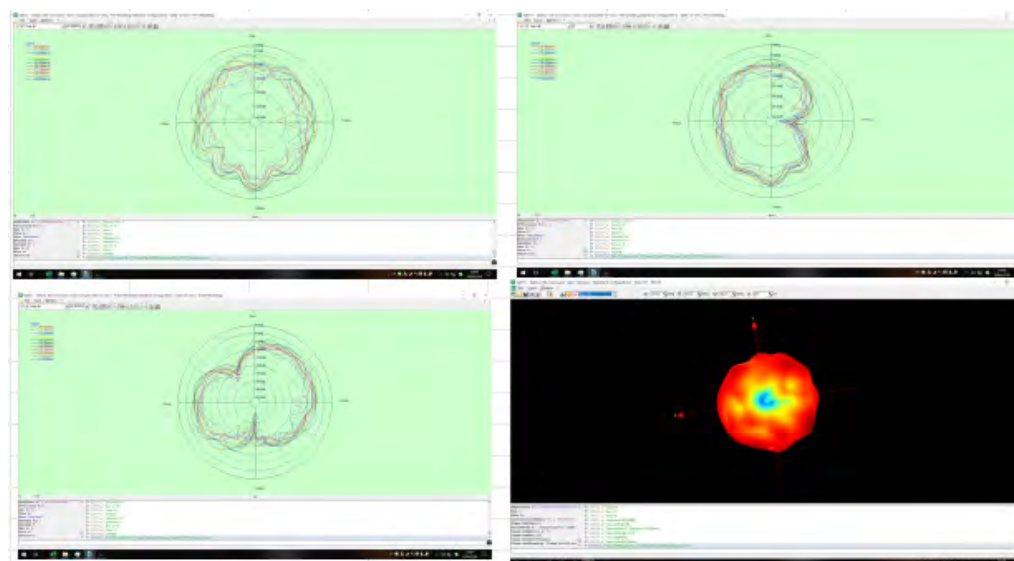
Frequency	Efficiency	Efficiency	Gain . dB
1710000000	7%	-12	-8
1743000000	7%	-12	-7
1776000000	6%	-12	-7
1809000000	6%	-12	-7
1842000000	6%	-12	-7
1875000000	6%	-13	-8
1908000000	5%	-13	-9
1941000000	6%	-12	-7
1974000000	8%	-11	-5
2007000000	9%	-11	-6
2040000000	10%	-10	-5
2073000000	13%	-8.9	-4
2106000000	17%	-7.7	-3
2139000000	20%	-7	-2
2172000000	22%	-6.6	-2
2205000000	22%	-6.5	-2
2238000000	23%	-6.4	-2
2271000000	21%	-6.7	-2
2304000000	20%	-6.9	-3
2337000000	19%	-7.1	-3
2370000000	19%	-7.2	-3
2403000000	18%	-7.4	-3
2436000000	18%	-7.5	-3
2469000000	18%	-7.6	-3
2502000000	17%	-7.7	-4
2535000000	16%	-7.9	-3
2568000000	18%	-7.4	-3
2601000000	19%	-7.2	-3
2634000000	20%	-7.1	-3
2667000000	19%	-7.1	-2
2700000000	19%	-7.3	-3

● Radiation pattern

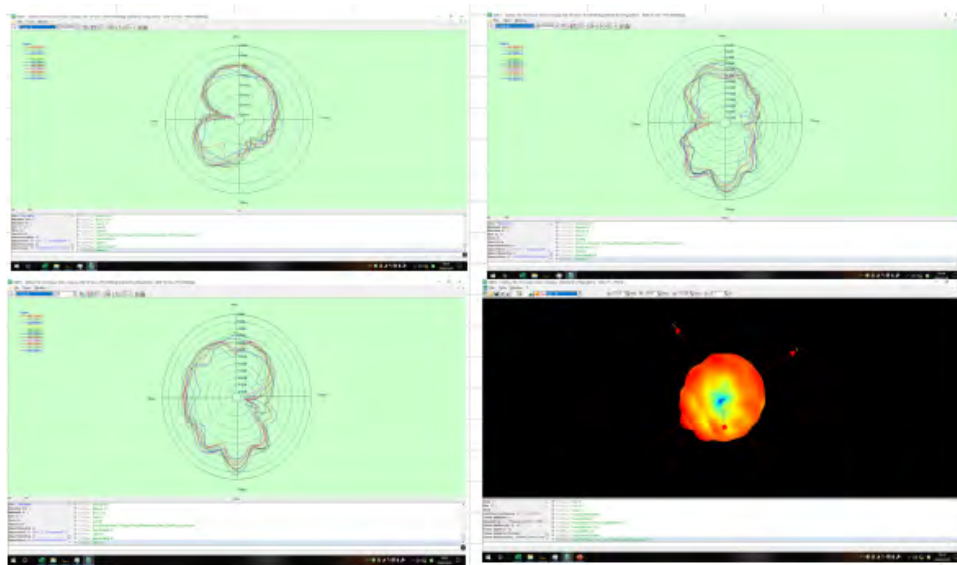
RF1



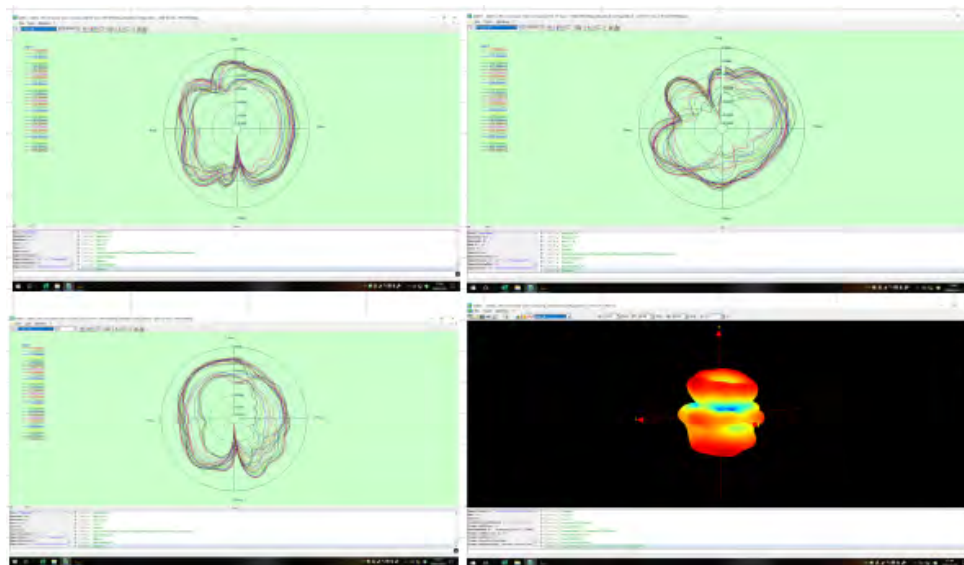
RF2



RF3



RF4



- Structure size:

2、ANT1

- Technical parameters

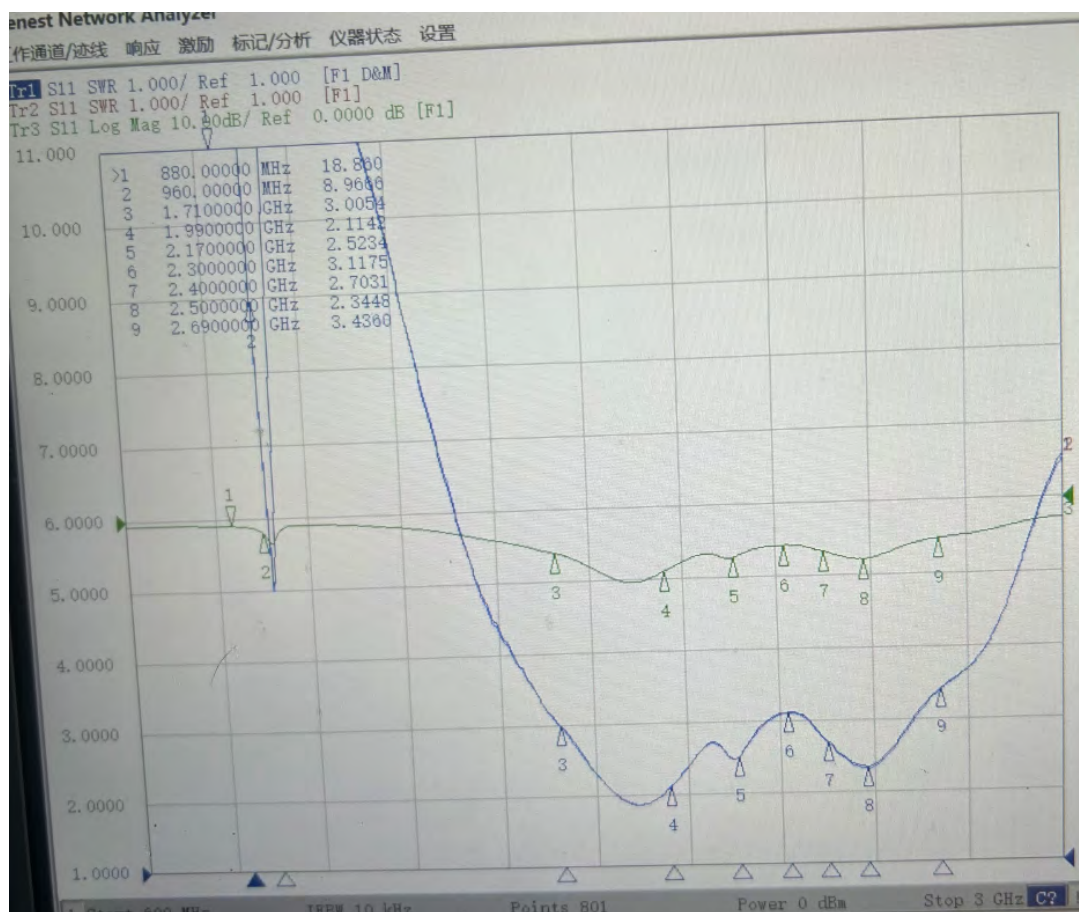
WWAN: 2G/3G/4G

Antenna company:

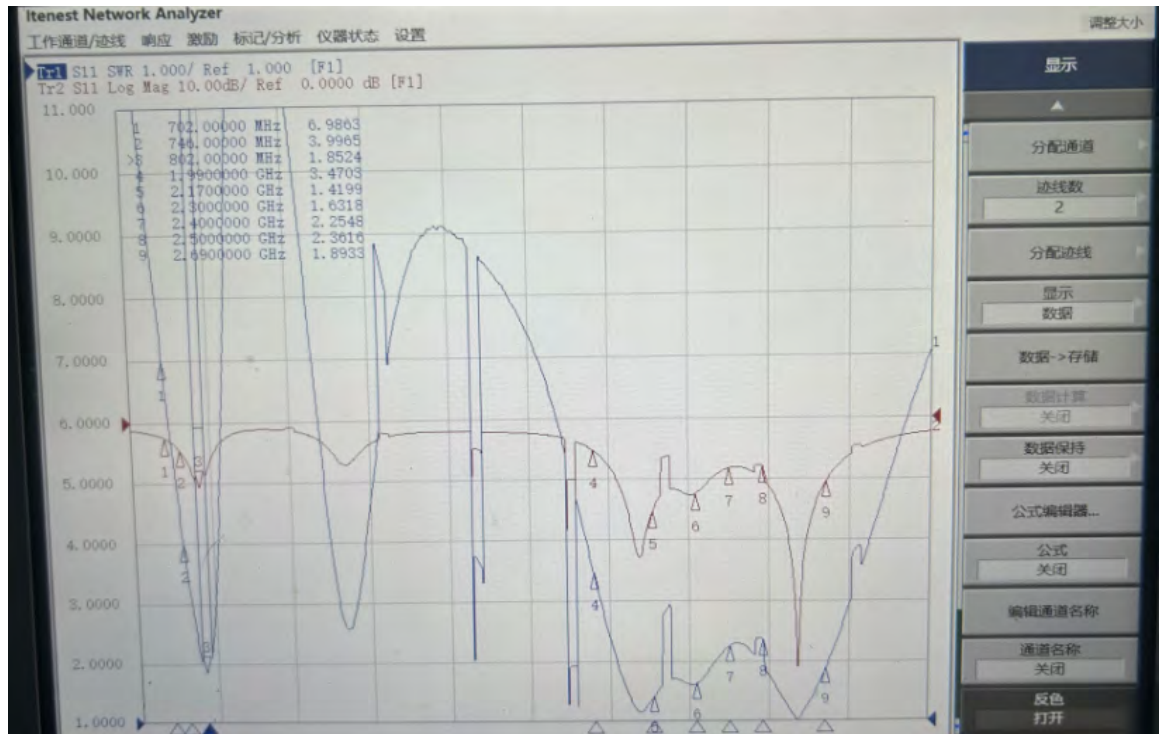
Antenna form: PIFA

Frequency: 700MHz~2690MHz

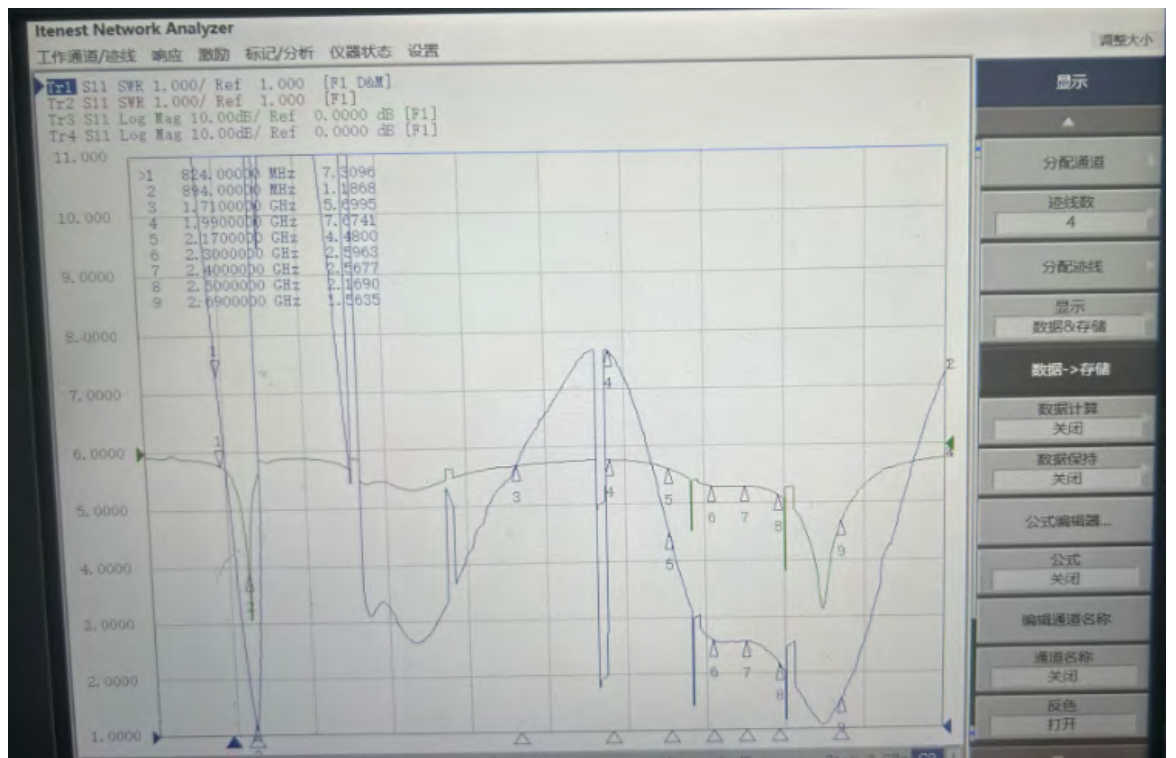
- S11
- RF1 (1710-2170MHz-TX)



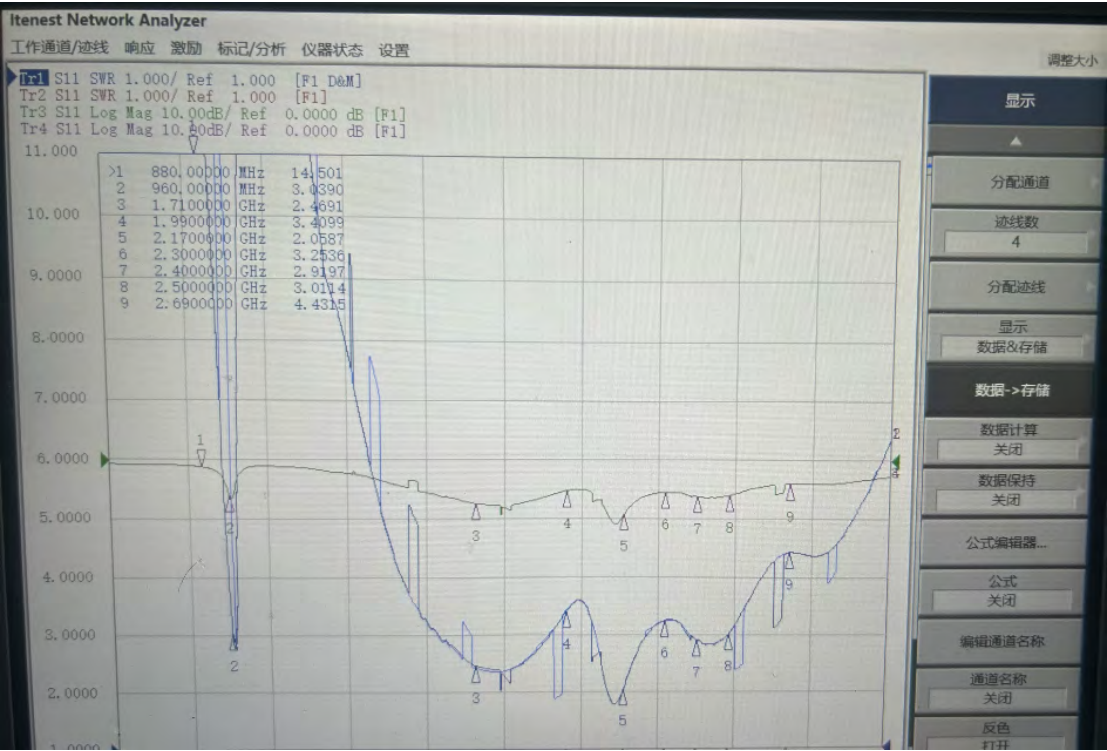
● RF2 (700-803MHZ-RX)



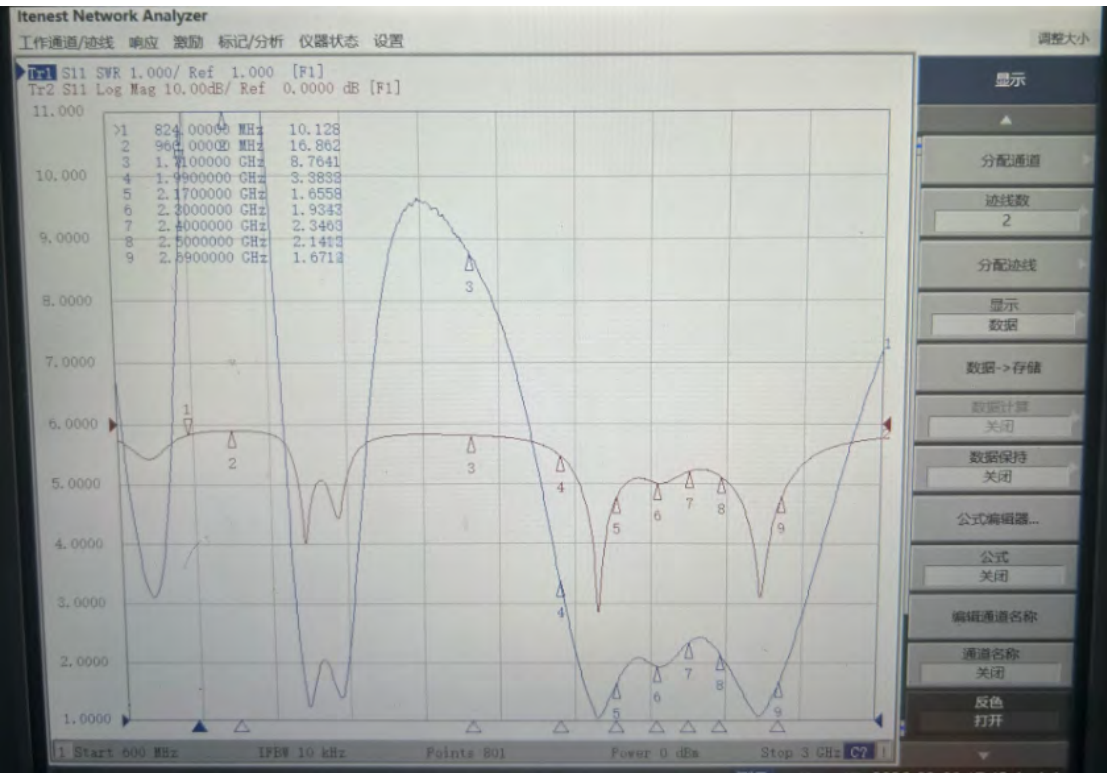
RF3 (824-894MHZ-RX)



RF4 (880-960MHZ-RX)



RF5 (2300-2700HZ-TX)



Efficiency and gain

● RF1 (1710-2170MHZ-TX)

Frequency	Efficiency	Efficiency	Gain	. dB
1700000000	24%	-6.2	-1	
1733333333	24%	-6.3	-1	
1766666666	26%	-5.8	-0	
1800000000	29%	-5.5	0.3	
1833333333	31%	-5.2	1.1	
1866666666	31%	-5.1	1	
1900000000	31%	-5.1	1	
1933333333	31%	-5	0.9	
1966666666	30%	-5.2	1	
2000000000	29%	-5.3	0.7	
2033333333	29%	-5.4	0.6	
2066666666	28%	-5.6	0.4	
2100000000	24%	-6.2	-0	
2133333333	22%	-6.6	-1	
2166666666	25%	-6.1	-1	
2200000000	24%	-6.1	-1	
2233333333	25%	-6	-0	
2266666666	23%	-6.3	-0	
2300000000	22%	-6.5	-1	
2333333333	22%	-6.6	-0	
2366666666	22%	-6.6	-1	
2400000000	23%	-6.4	-1	
2433333333	23%	-6.3	-1	
2466666666	23%	-6.4	-1	
2500000000	22%	-6.5	-1	
2533333333	19%	-7.2	-2	
2566666666	18%	-7.5	-2	
2600000000	16%	-7.9	-3	
2633333333	14%	-8.5	-4	
2666666666	13%	-8.9	-4	
2700000000	11%	-9.6	-5	

RF2 (700-803MHZ-RX)

Frequency	Efficiency	Efficiency	Gain	. dB
700000000	3%	-15	-9	
711000000	4%	-15	-9	
722000000	5%	-13	-7	
733000000	7%	-12	-6	
744000000	8%	-11	-6	
755000000	9%	-11	-6	
766000000	8%	-11	-5	
777000000	8%	-11	-4	
788000000	8%	-11	-4	
799000000	10%	-10	-3	
810000000	10%	-10	-4	

● RF3 (824-894MHZ-RX)

Frequency	Efficiency	Efficie	Gain . dB
800000000	2%	-17	-10
810000000	3%	-16	-9
820000000	3%	-15	-9
830000000	4%	-14	-7
840000000	4%	-13	-5
850000000	6%	-13	-5
860000000	7%	-12	-4
870000000	8%	-11	-4
880000000	10%	-10	-4
890000000	11%	-9.5	-3
900000000	11%	-9.4	-2

RF4（880-960MHZ-RX）

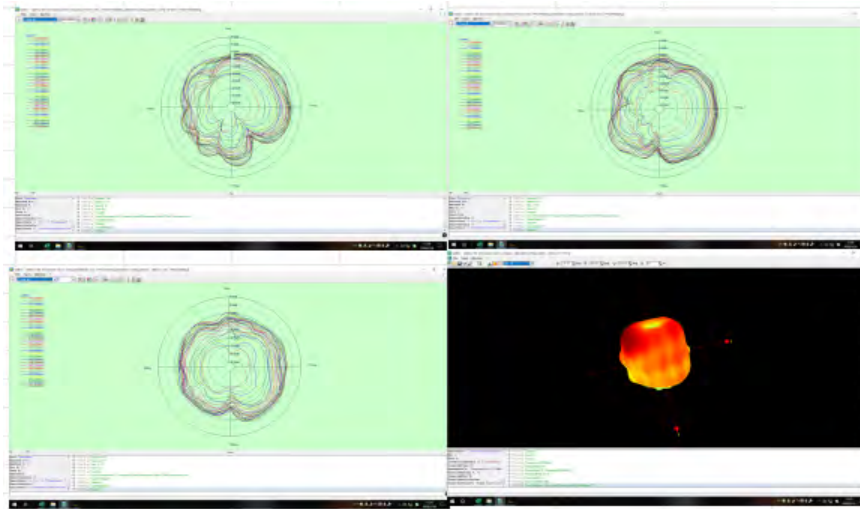
Frequency	Efficiency	Efficie	Gain . dB
880000000	1%	-21	-14
888000000	1%	-19	-13
896000000	2%	-18	-11
904000000	2%	-17	-10
912000000	2%	-17	-9
920000000	2%	-16	-9
928000000	3%	-15	-8
936000000	4%	-14	-7
944000000	6%	-13	-6
952000000	9%	-11	-5
960000000	9%	-11	-4

RF5（2300-2700HZ-TX）

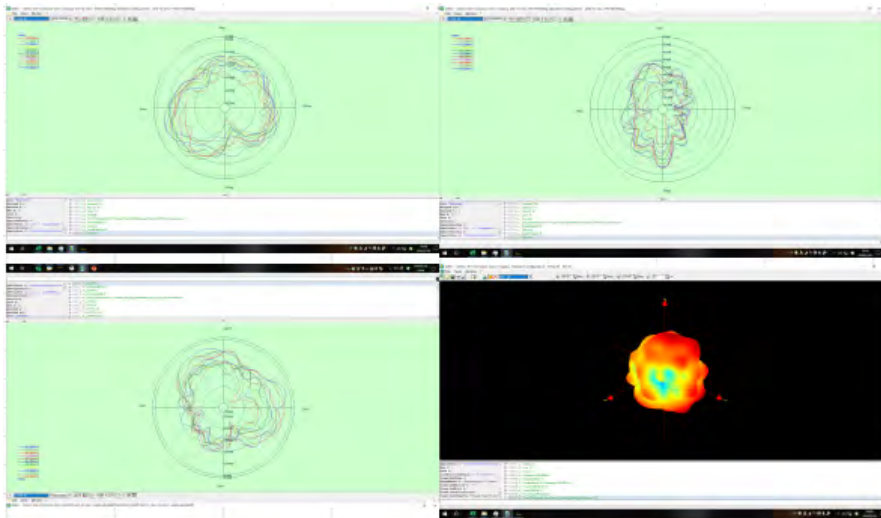
Frequency	Efficiency	Efficie	Gain . dB
2304000000	15%	-8.4	-4
2337000000	18%	-7.4	-2
2370000000	18%	-7.5	-0
2403000000	22%	-6.5	0.4
2436000000	26%	-5.8	1.5
2469000000	29%	-5.4	1.3
2502000000	33%	-4.8	2.1
2535000000	33%	-4.8	1.9
2568000000	37%	-4.3	2.7
2601000000	37%	-4.3	2.5
2634000000	35%	-4.5	2.4
2667000000	33%	-4.8	1.5
2700000000	28%	-5.5	1

Radiation pattern

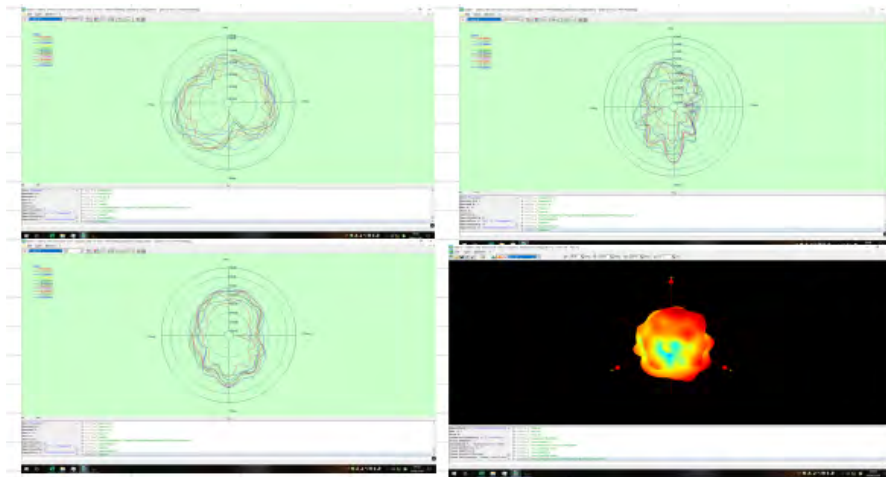
RF1



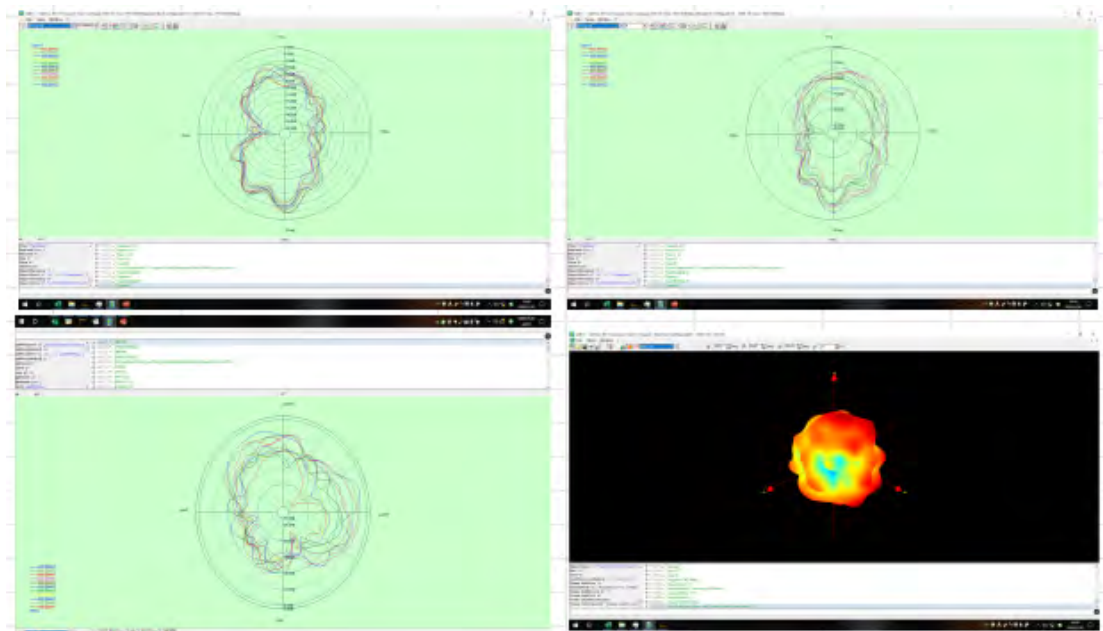
RF2



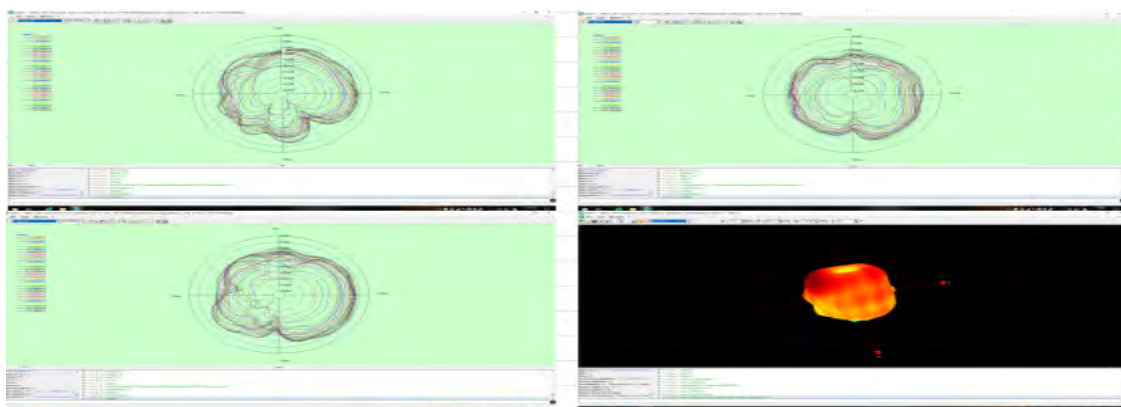
RF3



RF4



RF5



7、ANT2

- Technical parameters

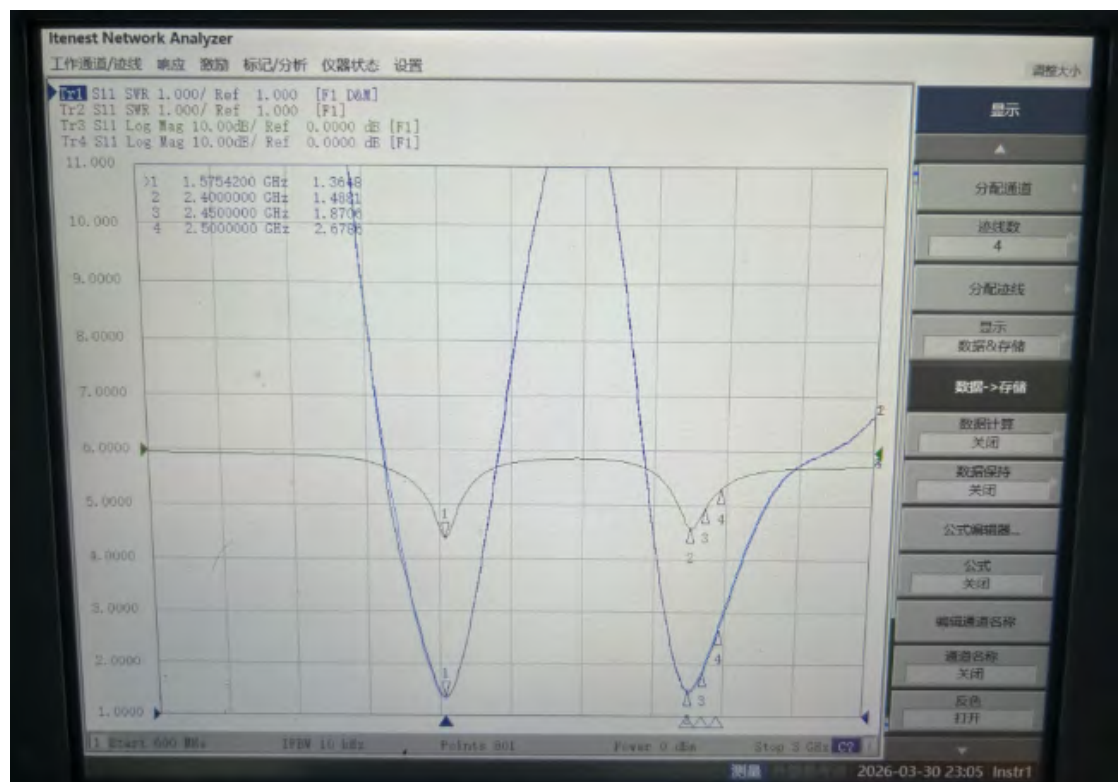
WLAN: GPS&2.4GWIFI

Antenna company:

Antenna form: PIFA

Frequency: 1575MHZ 2400-2500MHZ

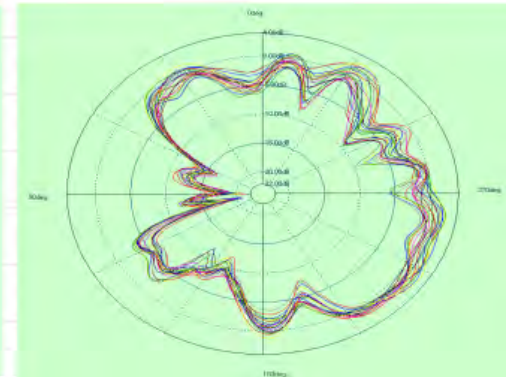
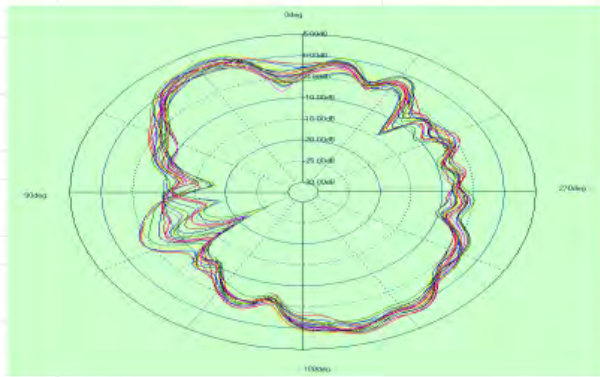
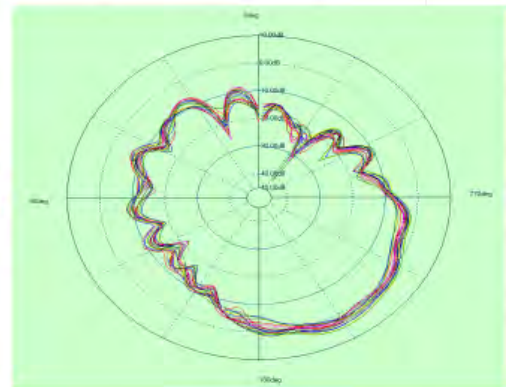
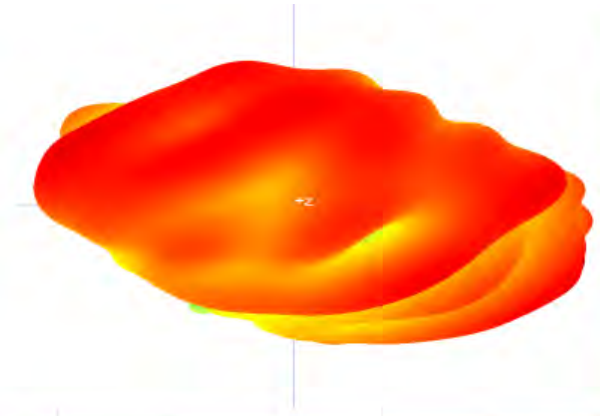
- S11



- Efficiency and gain

Frequency	Efficiency	Efficie	Gain . dB
1570000000	57%	-2.5	1.6
1571000000	57%	-2.5	1.7
1572000000	57%	-2.5	1.7
1573000000	57%	-2.5	1.7
1574000000	56%	-2.5	1.7
1575000000	56%	-2.5	1.8
1576000000	57%	-2.5	1.8
1577000000	57%	-2.5	1.7
1578000000	57%	-2.4	1.8
1579000000	57%	-2.4	1.8
1580000000	57%	-2.4	1.8
Frequency	Efficiency	Efficie	Gain . dB
2400000000	35%	-4.6	0.9
2410000000	35%	-4.6	0.8
2420000000	36%	-4.4	0.9
2430000000	37%	-4.4	1
2440000000	36%	-4.4	1.1
2450000000	37%	-4.3	1.2
2460000000	37%	-4.3	1.3
2470000000	37%	-4.3	1.4
2480000000	37%	-4.3	1.4
2490000000	36%	-4.4	1.4
2500000000	35%	-4.5	1.4

- Radiation pattern



G900/W8/B8: +1.2DBI
G850/B5/B20/W5:0.7DBI
B28//12/13/17:0.2dbi
DCS/B3/B4/B66/W4:0.3DBI
PCS/B2/W2:1.1DBI
W1/B1: 0.7DBI
B7/B41/B38:2.7DBI
B40:0.4dbi
Wifi 2.4G/BT:1.4dbi
GPS:1.8dbi

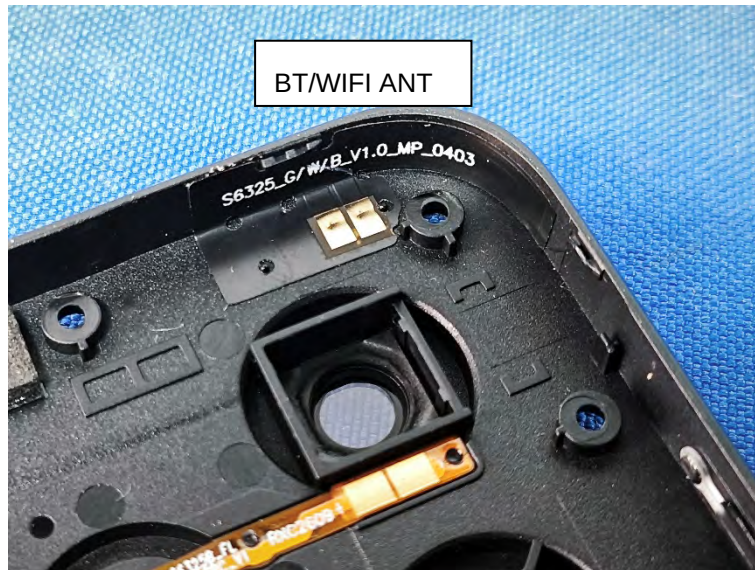
WWAN DIV ANT



WWAN Main ANT



BT/WIFI ANT





总结

- 以上为样机测试报告
- 环境处理及匹配方案沿用往期报告，不做调整



01

报告中天线匹配电路是否改动，天线有关的环境处理是否增加，将直接影响天线性能，请仔细确认查看。

02

贵司如有最新试产或更新产品（如软件，**ESD**，物料等）请尽快提供我司进行验证，以确认天线性能是否有变化影响。

03

倘若贵司需要送第三方检测机构复测或客户测试，请务必先与我司进行天线相关测试确认，因主板•装配的一致性，以及天线组装的差异等因素，均可能导致天线参数的偏差。

谢谢

THANK YOU

如有疑问 请联系我们

日常服务时间：周一至周六 9:00-18:00

总机热线：0755-36615535 销售热线：0755-36615535 传真：0755-82916227

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