



昶音TP7691天线调试报告

Antenna Design And Test Report

报告版本: V1.0

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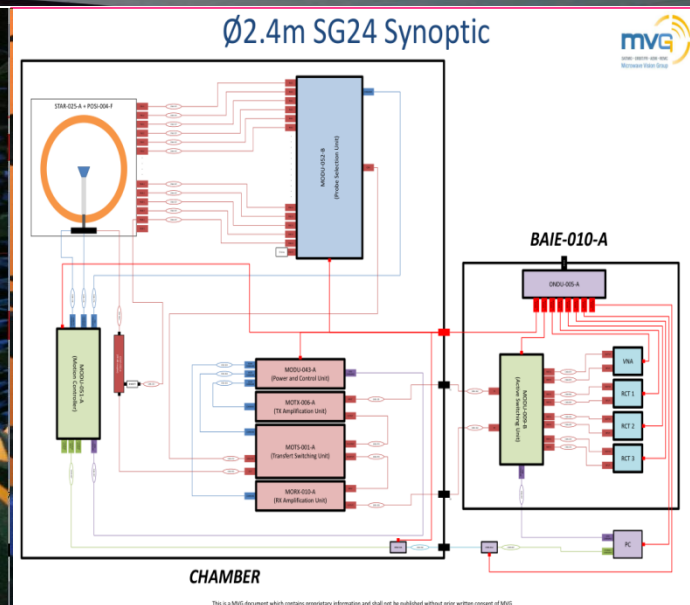
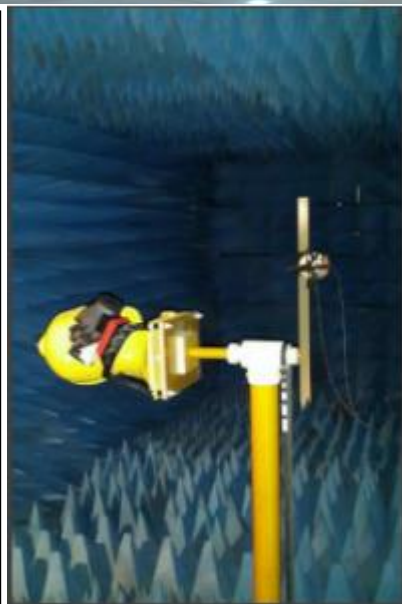
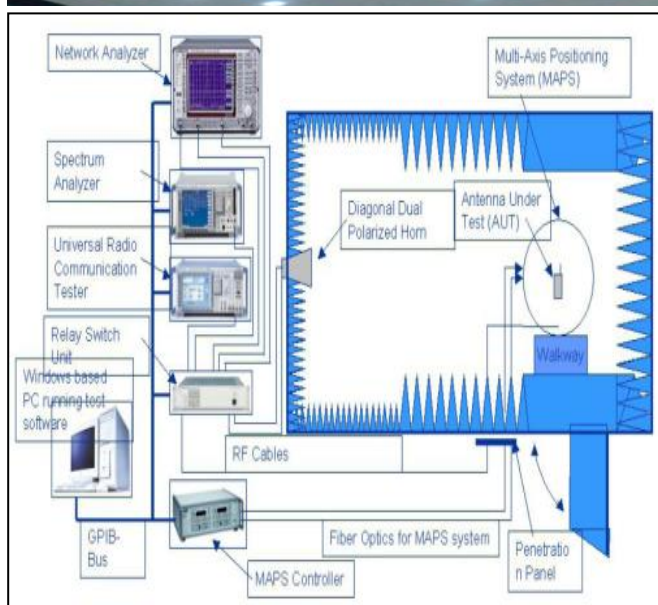
总结

Conclusion

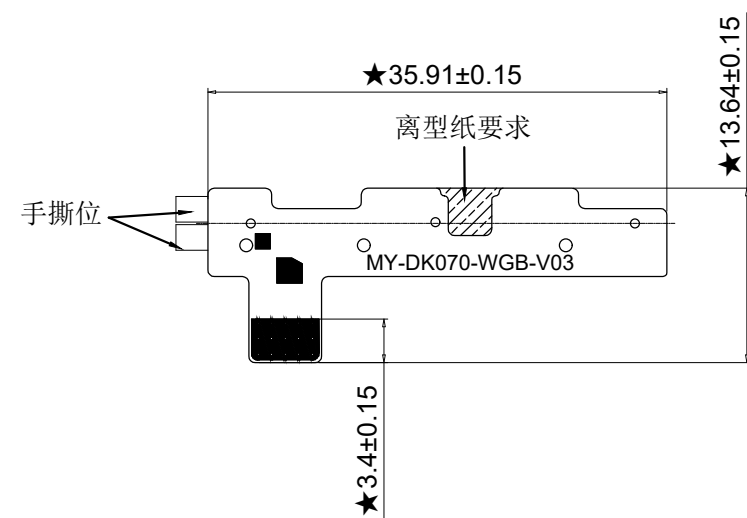
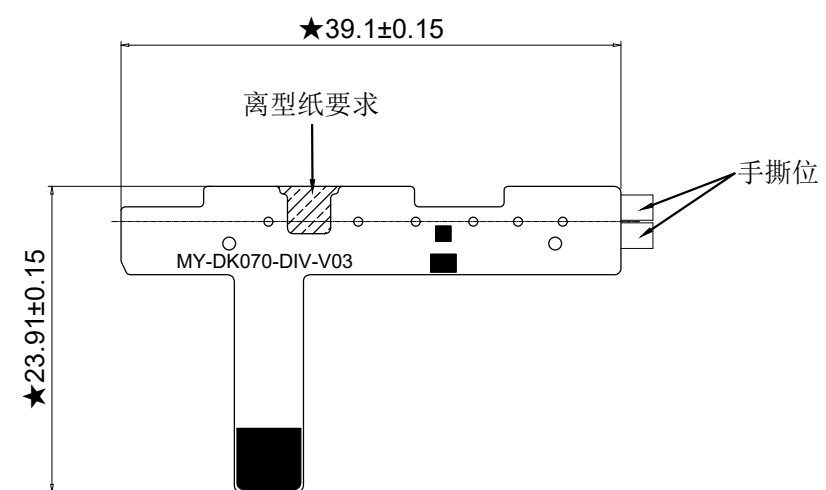
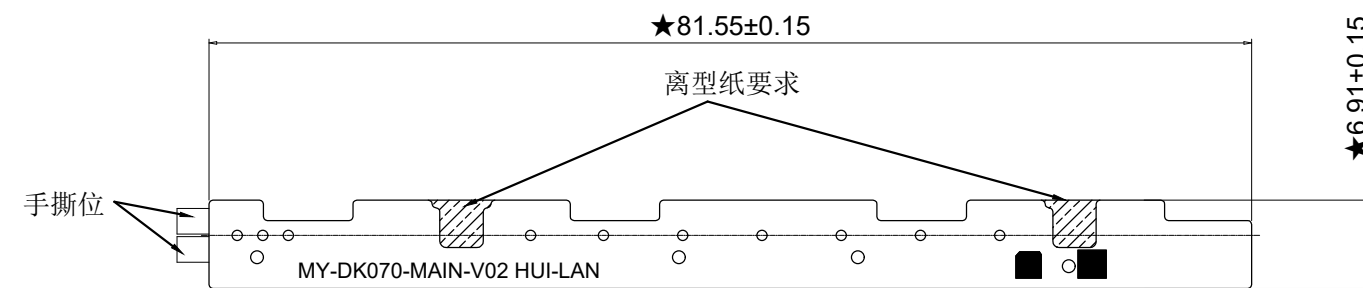
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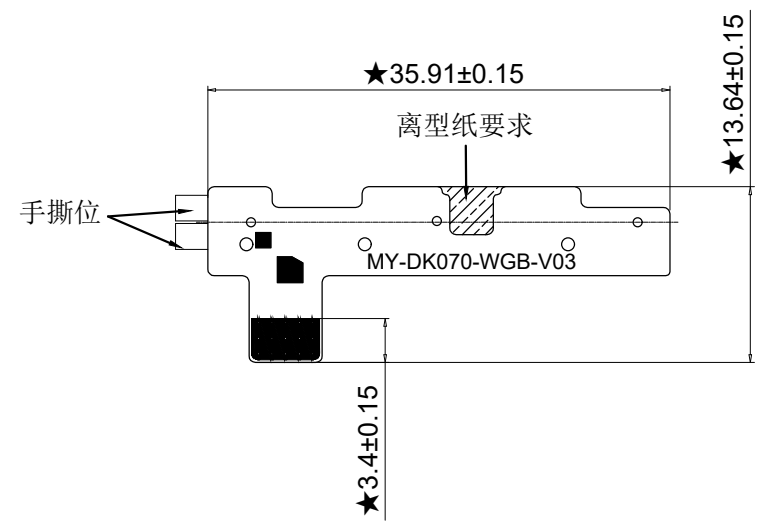
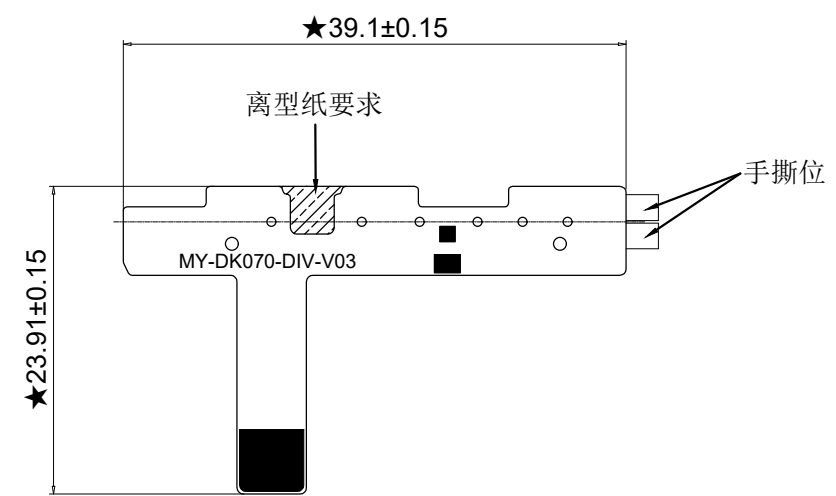
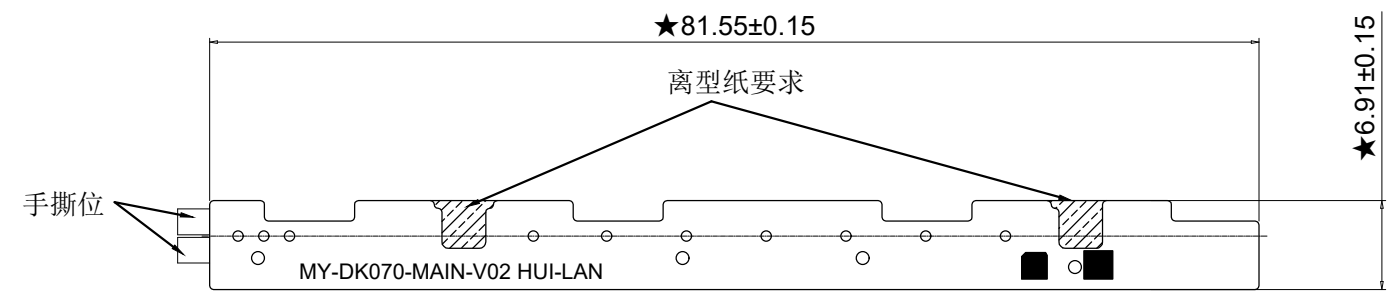
附加说明

Additional Notes



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）



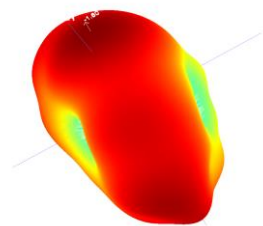


Band	Max Peak Antenna Gain (dBi)
BT	2.32
2.4G WiFi	2.32
5.2G WiFi	3.12
5.8G WiFi	3.89
GSM 850	2.35
PCS 1900	-0.34
WCDMA B2	2.35
WCDMA B5	-0.34
LTE B2	2.35
LTE B4	1.54
LTE B5	-0.34
LTE B12	-0.76
LTE B13	-0.76
LTE B66	1.54

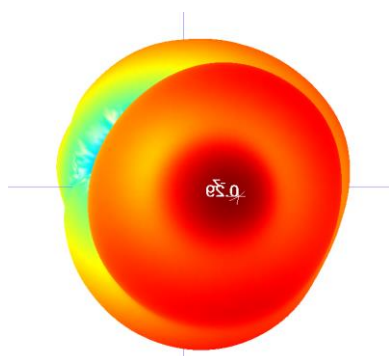
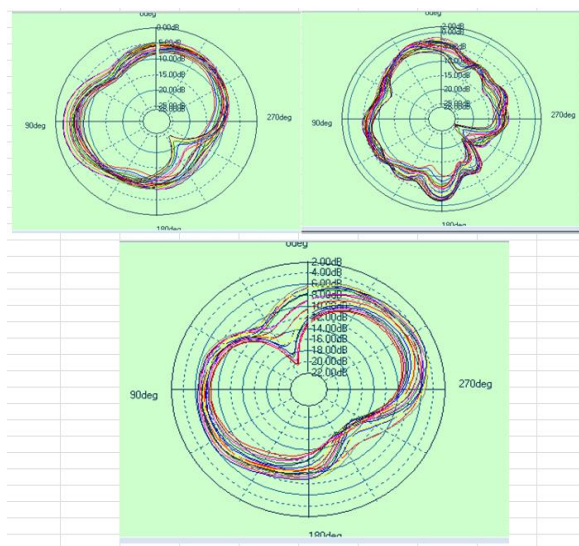
MAIN ant		
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(%)
700	-1.13	21.35
720	-1.02	22.68
740	-0.89	23.45
760	-0.76	24.13
780	-0.87	23.57
800	-0.64	21.32
820	-0.51	23.25
840	-0.48	24.35
860	0.39	25.29
880	-0.45	25.25
900	-0.34	26.78
920	-0.19	28.48
940	0.02	29.49
960	-0.18	27.12
2300	1.87	38.25
2320	1.82	39.02
2340	1.78	38.48
2360	1.68	35.45
2380	1.87	38.41
2400	1.67	35.18
2420	1.42	36.47
2440	1.52	36.89
2460	1.48	35.16
2480	1.45	35.46
2500	1.79	38.12
2520	1.88	39.15
2540	1.82	38.78
2560	1.69	37.81
2580	1.84	39.57
2600	1.87	40.16
2620	1.85	39.87
2640	1.77	38.06
2660	1.84	38.87
2680	1.80	38.02
2690	1.79	37.26
2700	1.71	37.02

DIV ant		
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(%)
1710	1.54	39.25
1730	1.65	40.25
1750	1.68	40.25
1770	1.71	40.98
1790	1.87	42.05
1810	1.78	41.12
1830	1.67	39.25
1850	1.57	38.45
1870	1.69	39.25
1890	1.87	39.80
1910	1.89	40.15
1930	1.98	42.05
1950	2.12	43.12
1970	2.27	43.87
1990	2.35	44.15
2010	2.25	43.02
2030	2.05	42.15
2050	1.98	40.58
2070	1.82	39.78
2090	1.68	39.02
2110	1.54	38.15
2130	1.48	37.78
2150	1.40	35.15
2170	1.38	33.15
2190	1.24	31.08
2210	1.15	30.13
2230	1.02	29.07
2250	0.92	28.18
2270	1.02	29.25
2290	1.13	30.36
2310	1.48	32.15
2330	1.54	35.26
2350	1.38	34.15
2370	1.25	30.16
2390	1.02	29.58
2410	1.12	30.23
2430	0.97	28.18
2450	0.78	26.35
2470	1.25	28.12
2490	1.34	29.46
2510	1.25	28.15
2530	1.02	27.10
2550	0.87	26.78
2570	0	21.75
2590	-0.07	21.90
2610	-0.53	21.60
2630	-1.05	21.91
2650	-1.4	20.41
2670	-0.57	20.39
2690	0.24	20.04

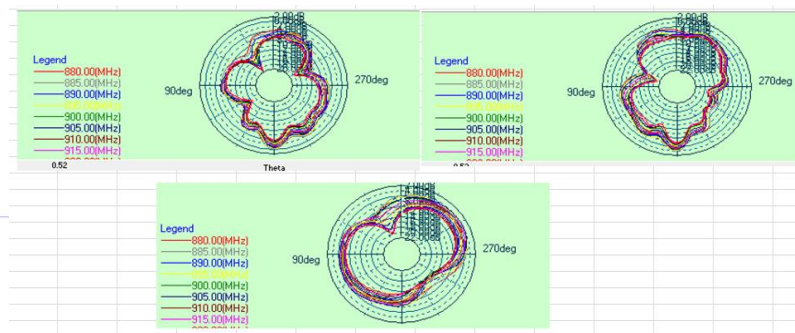
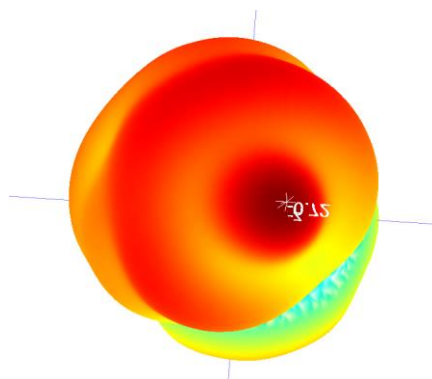
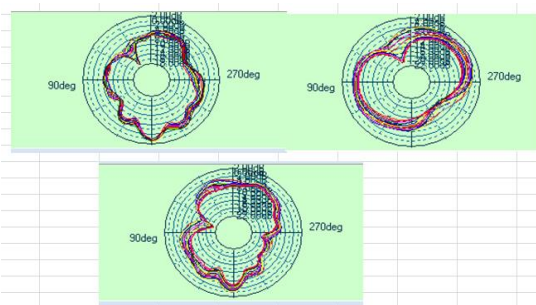
3in1 ant		
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(%)
1530	1.24	33.25
1540	1.35	34.89
1550	1.42	36.56
1560	1.51	38.42
1570	1.67	40.12
1575	1.54	39.54
1580	1.45	38.14
1590	1.32	37.16
1600	1.24	36.25
1610	1.12	35.10
1620	1.02	34.12
1630	0.99	33.54
2400	1.82	36.56
2410	1.85	37.25
2420	1.90	37.89
2430	1.95	38.49
2440	2.00	39.65
2450	2.15	40.02
2460	2.23	41.45
2470	2.32	42.15
2480	2.16	41.45
2490	2.02	40.16
2500	1.88	38.98
5000	2.64	30.12
5050	2.75	31.35
5100	2.81	32.56
5150	2.86	33.35
5200	3.02	34.56
5250	3.12	35.67
5300	3.00	34.15
5350	2.91	33.89
5400	2.98	34.25
5450	3.01	35.68
5500	3.12	36.89
5550	3.25	37.48
5600	3.65	40.02
5650	3.81	41.25
5700	3.89	42.12
5750	3.45	38.78
5800	3.40	37.46
5850	3.13	36.25
5900	3.02	34.12



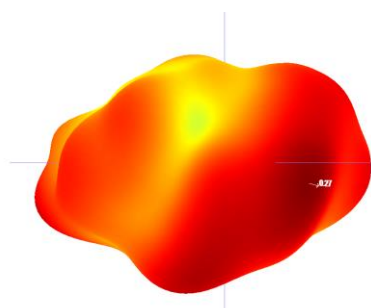
B12/13



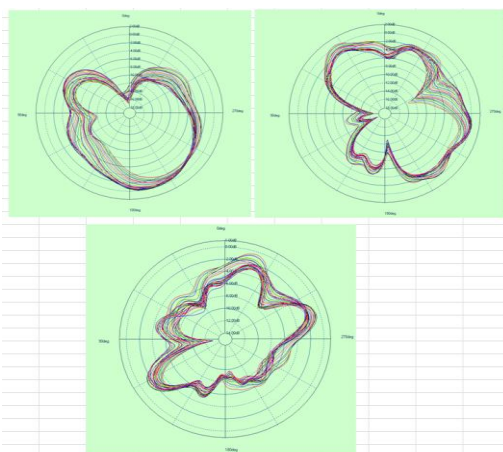
GSM850/W5/GSM850

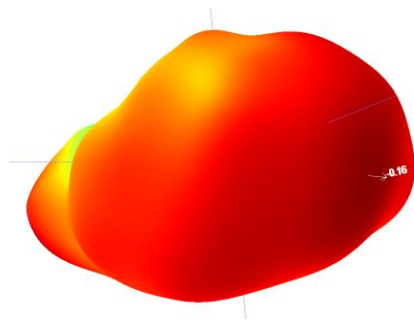


GSM900

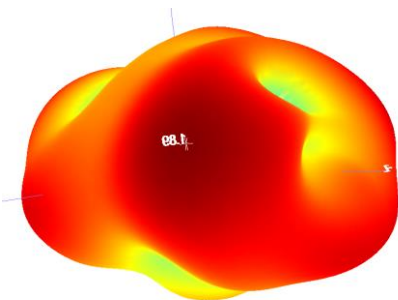
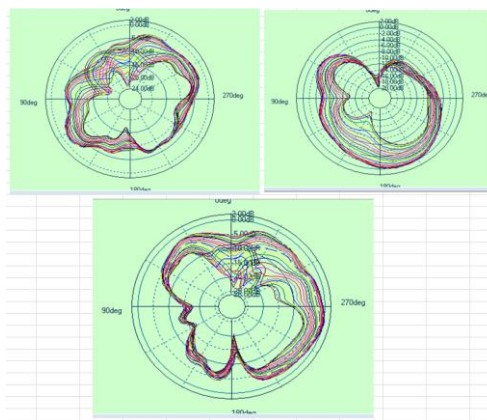


DCS1800/LTE B3/6E

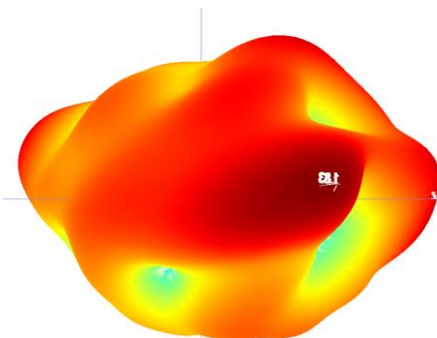
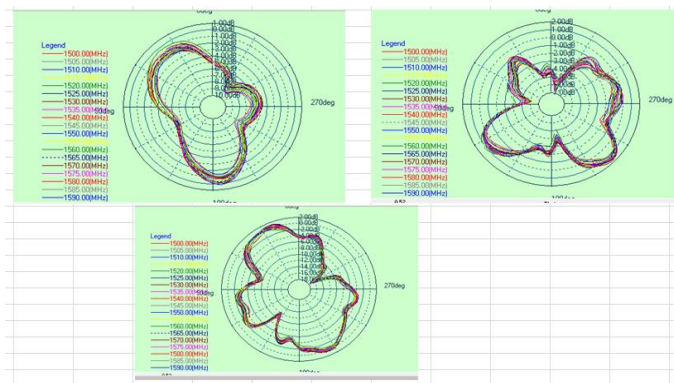




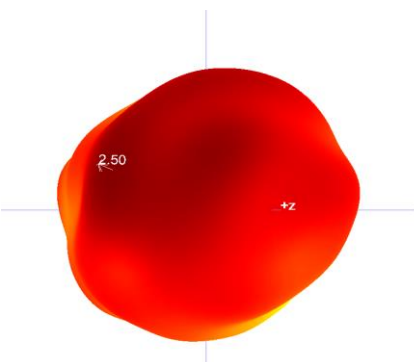
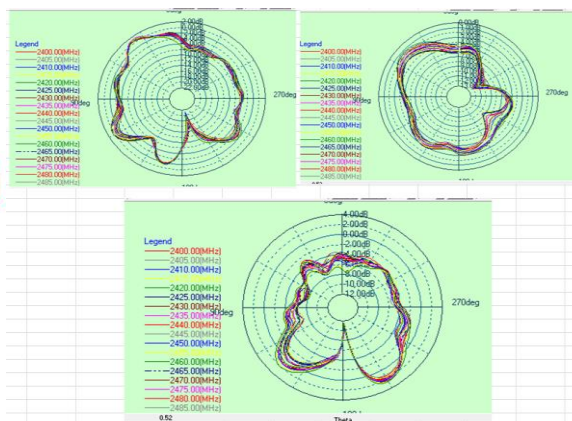
PCS1900/W2/LTE B2



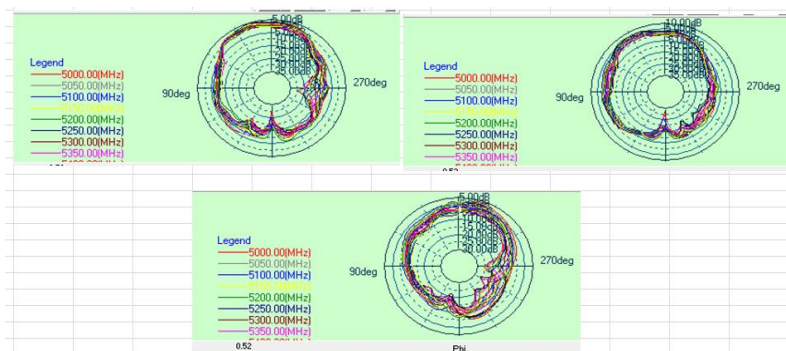
GPS



WIFI 2.4G



WIFI 5G





1#	BAND	GSM900			DCS1800			GSM850			PCS1900		
2G	CHANNEL	L	M	H	L	M	H	L	M	H	L	M	H
	TRP	27.0	27.5	27.9	24.2	25.6	25.5	25.6	26.8	27.3	25.4	25.2	26.1
	TIS			-103.3			-103.5			-101.8			-104.5
	BAND				WCDMA B2			WCDMA B5					
3G	CHANNEL				L	M	H	L	M	H			
	TRP				18.8	19.2	19.7	15.5	16.2	16.5			
	TIS						-106.4			-102.7			
	BAND	LTE B2			LTE B4			LTE B5			LTE B12		
4G	CHANNEL	L	M	H	L	M	H	L	M	H	L	M	H
	TRP	18.6	18.9	19.3	17.5	18.0	18.1	16.1	17.3	17.5	15.9	16.6	17.1
	TIS			-95.5			-94.4			-90.2			-90.6
	BAND	LTE B13			LTE B66								
4G	CHANNEL	L	M	H	L	M	H						
	TRP	16.3	16.5	16.0	17.1	17.2	18.4						
	TIS			-89.2			-94.6						



1#	BAND	B			G		
WIFI	CHANNEL	L	M	H	L	M	H
	TRP	12.6	12.9	11.8	10.2	10.5	9.7
	TIS			-80.9			-69.3
	BAND	N					
WIFI	CHANNEL	L	M	H	L	M	H
	TRP	10.1	10.2	9.4			
	TIS			-65.3			
	BAND	A			AC		
WIFI	CHANNEL	L	M	H	L	M	H
	TRP	12.8	13.1	13.6	11.8	12.3	12.5
	TIS			-72.2			-66.7

Active Report

GPS实测:



SATELLITES CNR	SATELLITES LOC	INFORMATION	NMEA LOG	GPS TEST	MPE STATUS	SATELLITES CNR	SATELLITES LOC	INFORMATION	NMEA LOG	GPS TEST	MPE STATUS	SATELLITES CNR	SATELLITES LOC	INFORMATION	NMEA LOG	GPS TEST	MPE STATUS
G-GPS R:GLN B:BD E:GAL Q:QZS L:L1S H:RNSS S:SBAS						G-GPS R:GLN B:BD E:GAL Q:QZS L:L1S H:RNSS S:SBAS						G-GPS R:GLN B:BD E:GAL Q:QZS L:L1S H:RNSS S:SBAS					
Average CNR						Average CNR						Average CNR					
G31.7+/- R30.5+/- B31.6+/- E26.4+/- Q29.0+/- L+/- S32.0+/-						G38.6+/- R37.5+/- B36.9+/- E+/- Q33.8+/- L+/- S+/-						G35.8+/- R35.3+/- B37.6+/- E38.2+/- Q37.5+/- L+/- S39.0+/-					
☐ Show in single page						☐ Show in single page						☐ Show in single page					
SVID	Fq	CNR	Elevation	Azimuth		SVID	Fq	CNR	Elevation	Azimuth		SVID	Fq	CNR	Elevation	Azimuth	
2	L1	37.3	37.00	166.00		2	L1	44.4	38.00	166.00		2	L1	35.3	38.00	166.00	
4	L1	0.0	36.00	208.00		4	L1	43.1	35.00	207.00		4	L1	30.5	35.00	207.00	
7	L1	22.7	31.00	323.00		7	L1	38.2	32.00	323.00		7	L1	35.1	32.00	323.00	
8	L1	32.5	73.00	338.00		8	L1	41.5	72.00	341.00		8	L1	39.6	72.00	341.00	
9	L1	40.5	38.00	258.00		9	L1	37.4	38.00	257.00		9	L1	42.0	38.00	257.00	
16	L1	36.5	24.00	59.00		16	L1	35.2	0.00	0.00		21	L1	46.7	46.00	150.00	
21	L1	41.4	45.00	152.00		21	L1	41.0	46.00	150.00		31	L1	33.8	8.00	134.00	
26	L1	19.2	9.00	82.00		31	L1	28.1	8.00	134.00		65	L1	0.0	3.00	201.00	
30	L1	25.2	3.00	318.00		65	L1	0.0	3.00	201.00		66	L1	0.0	18.00	247.00	
31	L1	30.2	8.00	133.00		66	L1	0.0	18.00	247.00		67	L1	0.0	11.00	298.00	
65	L1	0.0	3.00	201.00		67	L1	0.0	11.00	298.00		75	L1	44.2	23.00	88.00	
66	L1	0.0	18.00	248.00		75	L1	33.1	23.00	88.00		76	L1	40.7	44.00	20.00	
67	L1	19.6	11.00	299.00		76	L1	40.5	44.00	20.00		77	L1	0.0	21.00	329.00	
75	L1	26.7	23.00	87.00		77	L1	0.0	21.00	329.00		85	L1	37.9	12.00	28.00	
76	L1	29.1	43.00	19.00		85	L1	32.6	12.00	28.00		86	L1	41.0	57.00	57.00	
77	L1	0.0	21.00	328.00		86	L1	42.6	57.00	57.00		87	L1	31.5	53.00	173.00	
83	L1	0.0	39.00	35.00		87	L1	40.7	53.00	173.00		88	L1	0.0	4.00	197.00	
85	L1	34.7	13.00	28.00		88	L1	0.0	4.00	197.00		1	L1	36.4	0.00	0.00	
86	L1	42.5	57.00	58.00		1	L1	36.8	0.00	0.00		2	L1	33.6	46.00	234.00	
87	L1	0.0	52.00	173.00		2	L1	33.3	46.00	234.00		3	L1	35.7	61.00	189.00	
88	L1	0.0	6.00	27.00		3	L1	32.5	61.00	189.00		4	L1	34.4	0.00	0.00	
1	L1	30.1	46.00	125.00		4	L1	29.8	0.00	0.00		6	L1	41.1	80.00	169.00	
2	L1	27.0	46.00	235.00		6	L1	40.9	80.00	169.00		7	L1	34.5	65.00	303.00	
3	L1	35.3	61.00	189.00		7	L1	38.2	65.00	303.00		9	L1	38.6	0.00	0.00	
4	L1	0.0	32.00	111.00		9	L1	40.7	0.00	0.00		10	L1	40.9	56.00	294.00	
5	L1	0.0	23.00	254.00		10	L1	30.4	56.00	294.00		16	L1	43.9	80.00	169.00	
6	L1	36.5	80.00	168.00		16	L1	41.3	80.00	169.00		27	L1	40.3	47.00	47.00	
7	L1	30.1	65.00	303.00		27	L1	41.3	47.00	47.00		30	L1	27.6	74.00	182.00	
9	L1	32.2	78.00	313.00		30	L1	38.7	74.00	182.00		36	L1	29.4	38.00	328.00	

2#



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

 网址：www.mayaant.com

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