天线测试报告
Antenna test report

客户 client: 科盟
项目 Project: Qshare20（YL1665-2.4/5G-WIFI-V2-L60)
类型 type : 2.4/5G WiFi antenna/soldered 1st generation terminal/1.13 black wire L=60mm
日期 date: 2024/08/20
版本 version: V1

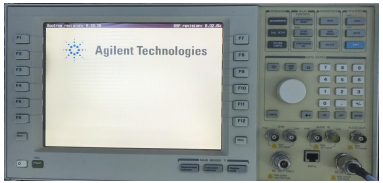
APPROVAL	CHECK	DESIGN
张洋	陈娜	赵旋旋

目 录

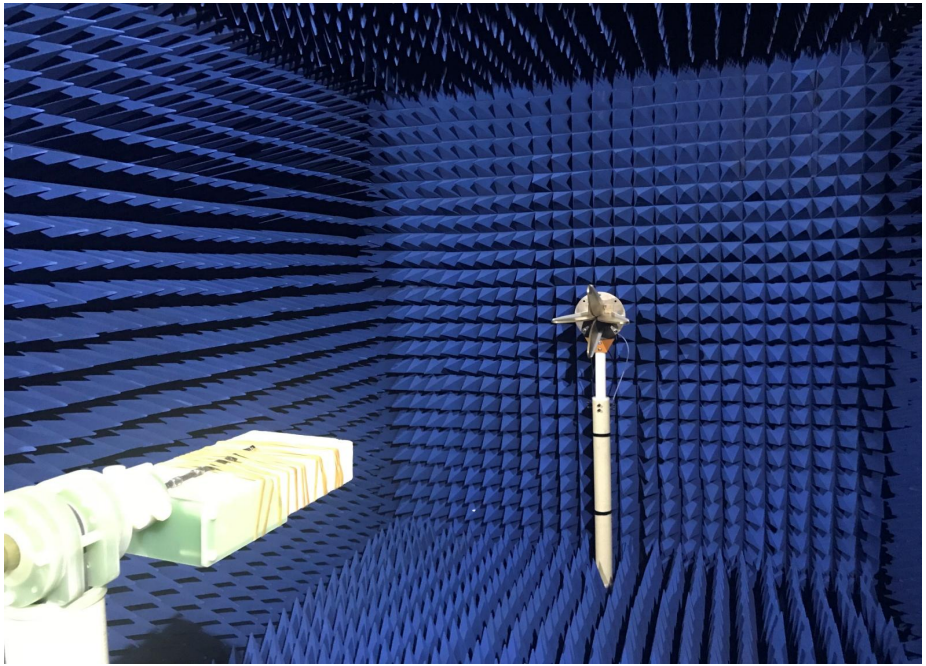
实验室测试环境及设备

CMW500

E5071B

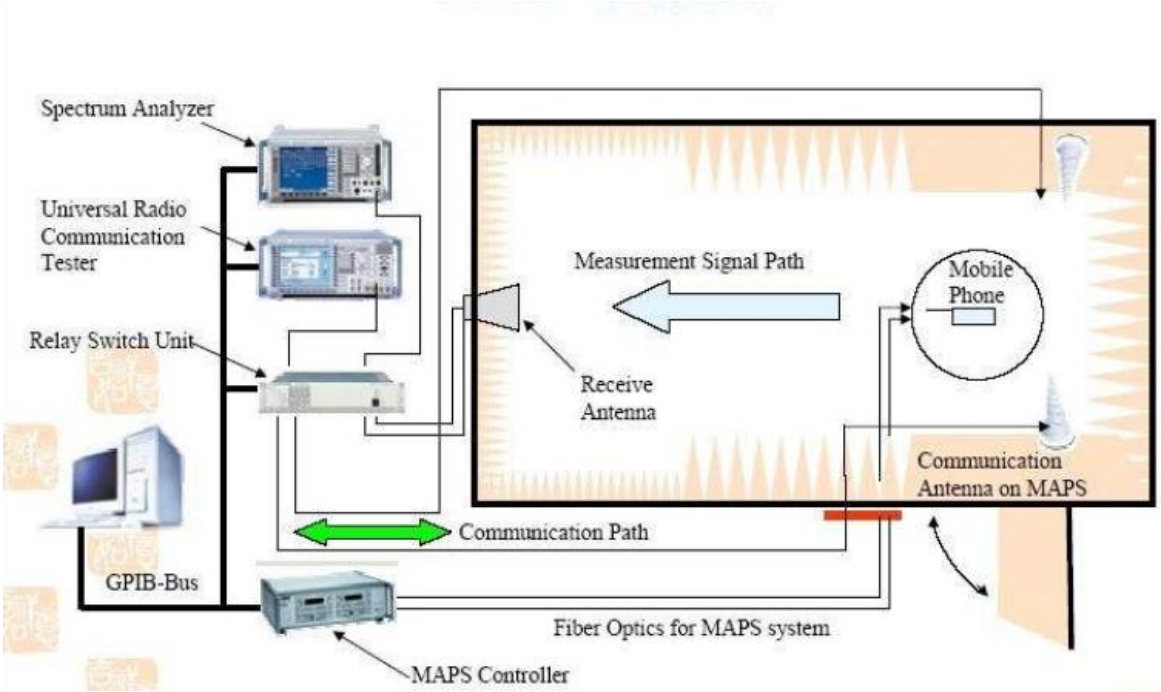


Aglient 8960



测试项目（Test Project）：S11、S12 、VSWR 、Efficiency、Gain 3D Radiation Pattern 、TRP、TIS

Darkroom testing system



Test actual shooting/antenna position

Antenna network division test parameters

Antenna efficiency/gain

2.4GHz

Passive Test For 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	51.55	2.04
2405	47.49	1.83
2410	46.19	1.75
2415	46.13	1.82
2420	44.7	1.75
2425	42.61	1.6
2430	44.54	1.8
2435	46.95	2.09
2440	45.73	2.02
2445	46.16	2.06
2450	46.86	2.12
2455	45.29	1.95
2460	43.07	1.79
2465	40.15	1.36
2470	39.59	1.26
2475	39.84	1.27
2480	38.98	1.16
2485	38.7	1.08
2490	39.23	1.11
2495	41.04	1.24
2500	37.55	0.81

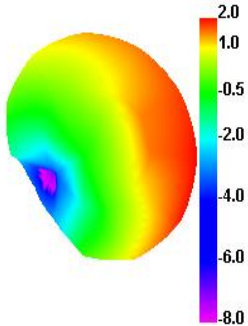
Antenna efficiency/gain

5GHz

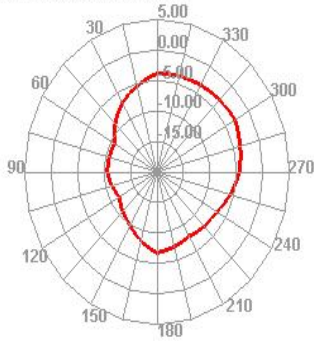
Passive Test For 5G								
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
5150	61.16	2.25	5390	68.76	2.56	5630	52.04	2.12
5160	62.93	2.43	5400	60.01	2.02	5640	47.57	1.75
5170	59.23	2.16	5410	59.5	2.01	5650	52.04	1.96
5180	59.83	2.15	5420	57.88	1.78	5660	53.78	1.93
5190	53.82	1.61	5430	58.87	1.9	5670	57.43	2.04
5200	58.97	1.8	5440	63.37	2.23	5680	56.47	1.69
5210	67.2	2.31	5450	64.69	2.31	5690	55.41	1.56
5220	69.49	2.3	5460	60.1	1.88	5700	53.12	1.31
5230	70.07	2.52	5470	60.05	1.79	5710	56.41	1.44
5240	63.04	2.11	5480	61.91	1.92	5720	58.79	1.69
5250	67.87	2.68	5490	65.19	2.13	5730	58.83	1.35
5260	64.15	2.45	5500	65.79	2.22	5740	64.22	1.86
5270	72.84	3.11	5510	64.12	2.23	5750	60.87	1.67
5280	75.31	3.13	5520	60.9	2.16	5760	67.37	2.28
5290	67.76	2.59	5530	57.83	2.15	5770	67.62	2.27
5300	67.27	2.44	5540	58.75	2.35	5780	69.78	2.49
5310	64.87	2.39	5550	63.09	2.65	5790	70.02	2.58
5320	69.2	2.87	5560	64.36	2.74	5800	67.32	2.56
5330	73.77	3.13	5570	62.03	2.51	5810	67.95	2.83
5340	69.56	2.99	5580	55.62	1.99	5820	68.47	3.05
5350	62.92	2.7	5590	55.44	2.02	5830	70.44	3.26
5360	64.21	2.77	5600	57.13	2.24	5840	74.52	3.53
5370	59.09	2.35	5610	55.94	2.28	5850	70.51	3.2
5380	65.82	2.56	5620	55.24	2.31			

Antenna Pattern

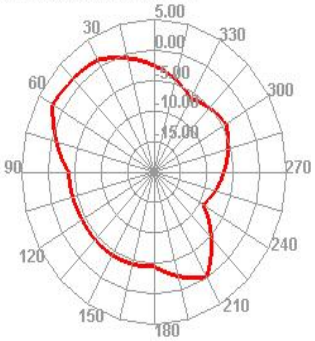
2400.000MHz



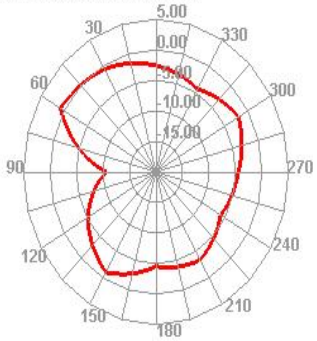
2400.000MHz H



2400.000MHz E1

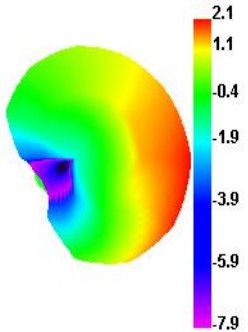


2400.000MHz E2

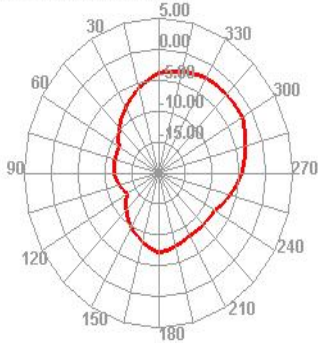


Antenna Pattern

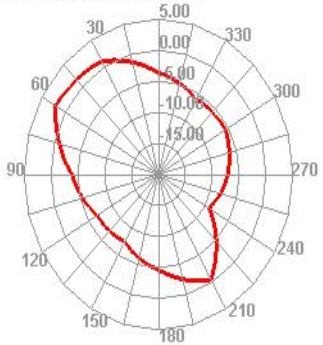
2450.000MHz



2450.000MHz H



2450.000MHz E1



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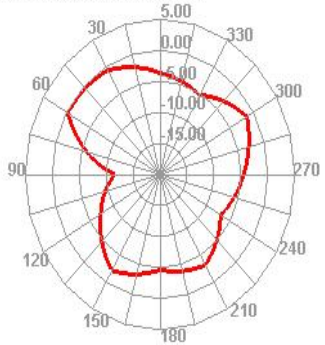
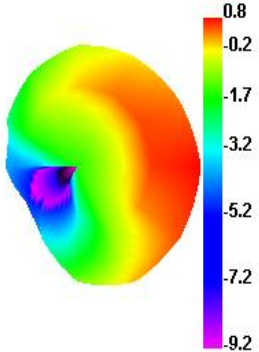
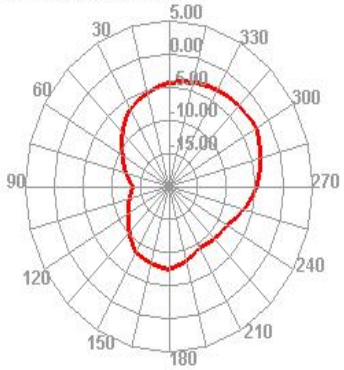


Antenna Pattern

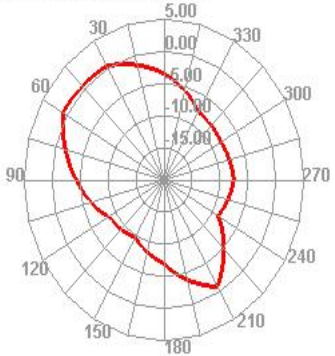
2500.000MHz



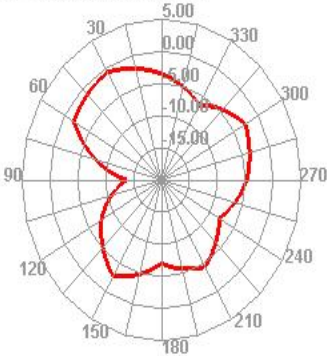
2500.000MHz H



2500.000MHz E1

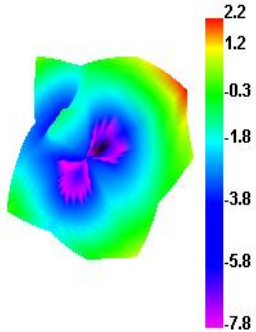


2500.000MHz E2

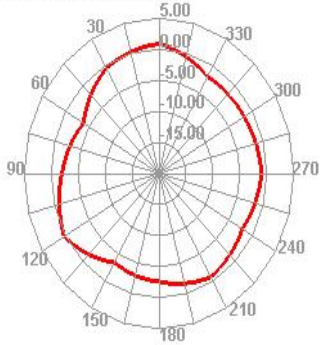


Antenna Pattern

5150.000MHz



5150.000MHz H



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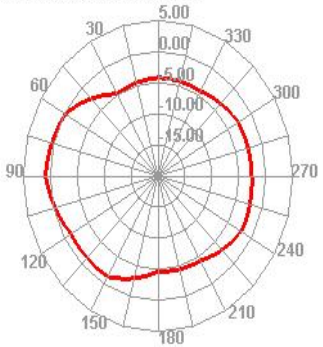

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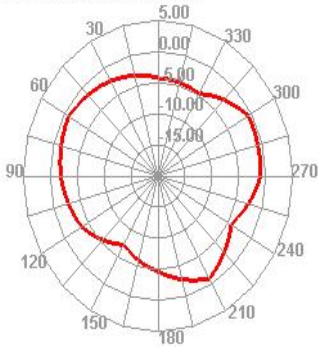
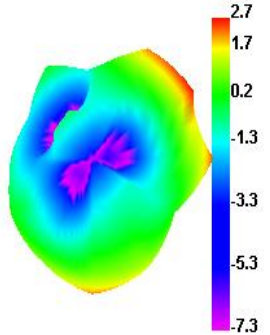
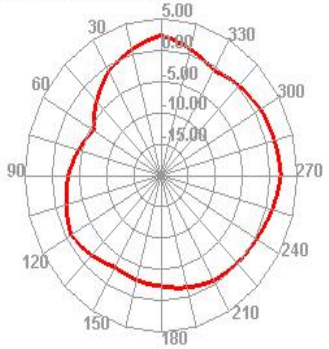


Antenna Pattern

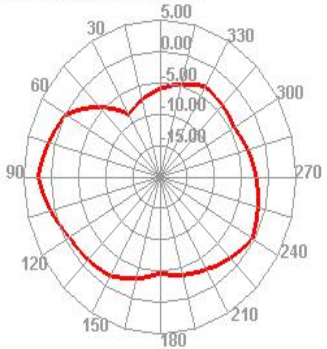
5350.000MHz



5350.000MHz H



5350.000MHz E1



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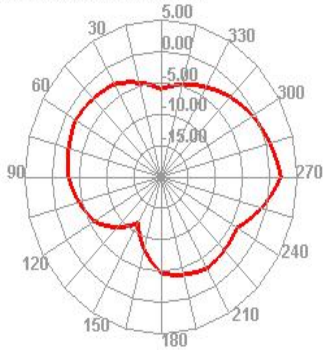
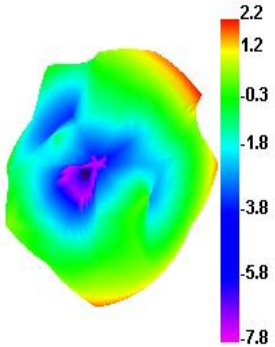
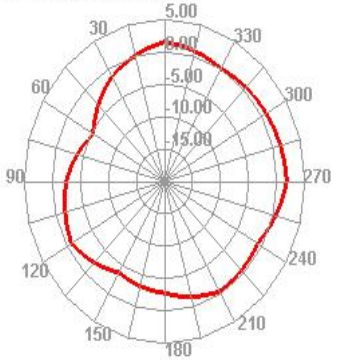


Antenna Pattern

5500.000MHz



5500.000MHz H



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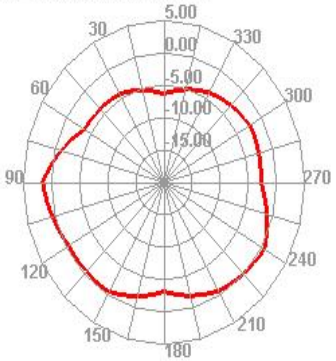
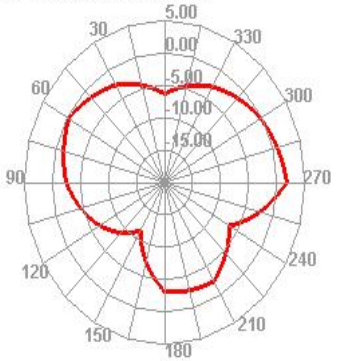
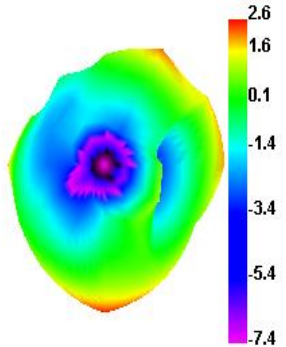


5500.000MHz E2

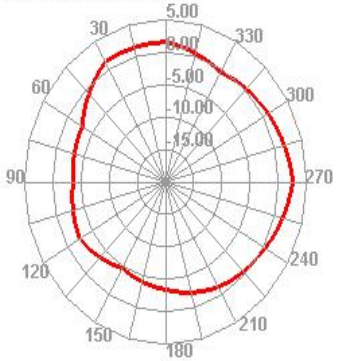


Antenna Pattern

5800.000MHz



5800.000MHz H



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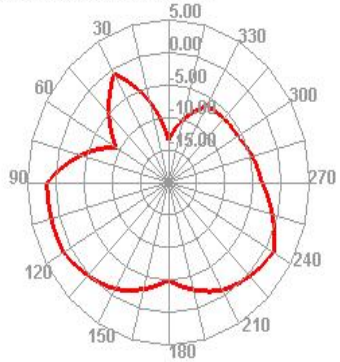

5800.000MHz E2