



2022

深圳祥博一科技有限公司

Shenzhen Xiangboyi Technology Co. Ltd

天线测试报告
Antenna report



TEST REPORT

- 01** 客户名称/Customer：和天创
- 02** 项目名称/Project：L005
- 03** 立项编号/Project NO：XBY220598
- 04** 工程师/Engineer：魏道发
电话/Phone：18123850014

PART 1

测试报告版本/Report version

日期 Date	天线版本 Antenna version	主板版本 PCB version	变更描述 Description of Change
2022-12-28			样品天线测试数据

PART 2

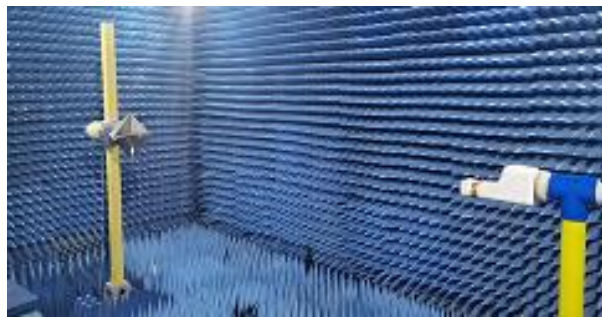
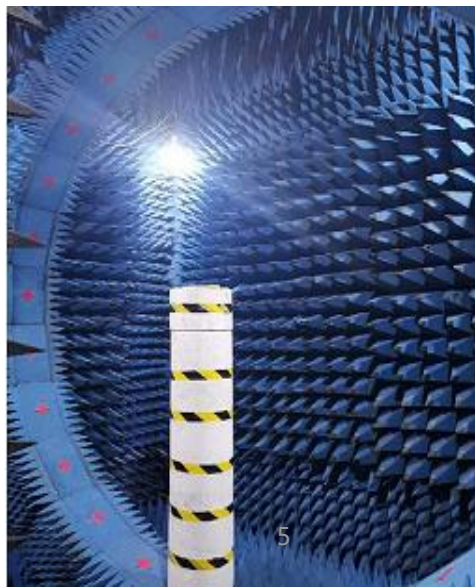
项目信息/Project brief

NO	ITEMS	DETAILS
1	工作频段 Operating band	WIFI:2.4G; 5.8G BT
2	频率范围 Frequency band	WIFI: 2400-2500Mhz; 5180-5850Mhz
3	天线类型 Antenna type	
4	天线材质及实现形状 Material and implementation shape	FPC+焊线

PART 3

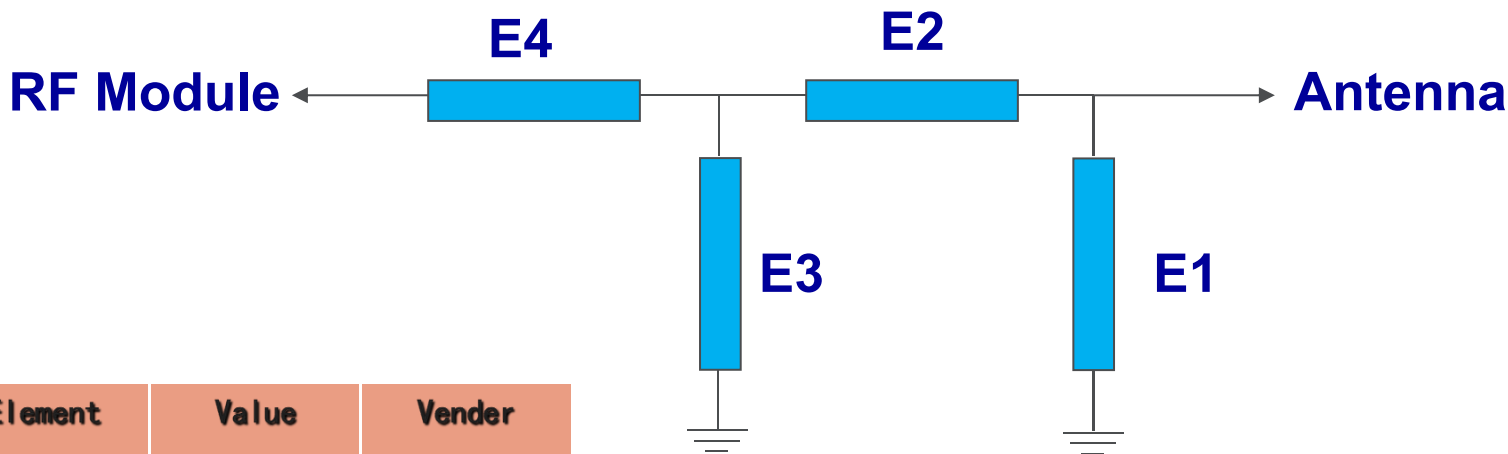
Test system and equipment

	测试项目/Test items	设备/equipment
1: S参数 S parameter	1. 回波损耗 Return loss 2. 驻波比 VSWR	网络分析仪/Network analyzer: A338/A333
2: 耦合功率测试 Active test	1. 发射功率 Transmitting power 2. 接收灵敏度 Receiving sensitivity	综合测试仪/Comprehensive test instrument: Agilent 8960/ CMW500
3: 辐射模式与增益 Radiation mode and gain	1. 辐射模式 Radiation mode 2. 天线增益 Gain	1. 暗室/Shielding room: 7x4x3 m (ETS-3D) 2. 网络分析仪/Network analyzer: HP 8753D



PART 4

匹配电路/Matching Circuits



Element	Value	Vender
E1 (0402)	NA	
E2 (0402)	0 0hm	
E3 (0402)	NA	
E4 (0402)	0 0hm	

Original match unchanged.

PART 5

测试数据/RF Report

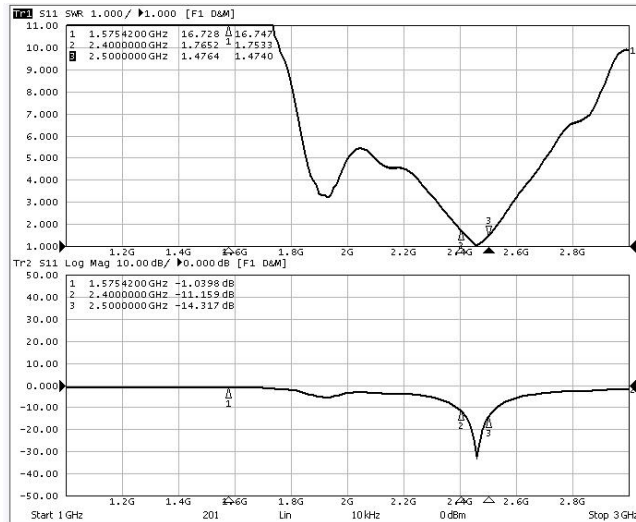
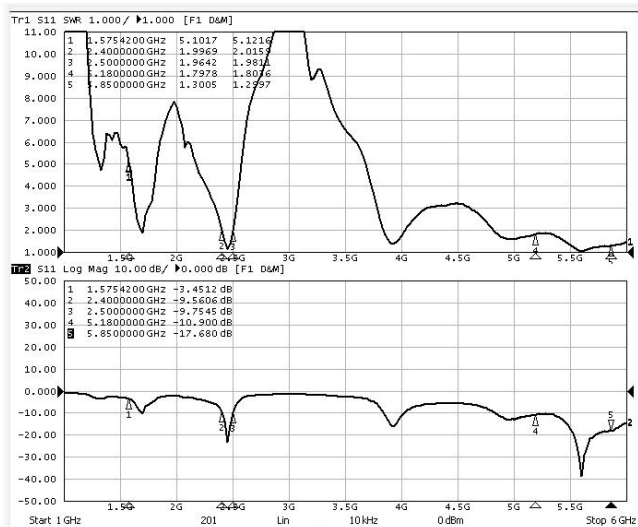
WIFI BAND	802.11a : 54Mbps (5G)					
Channel	CH36	CH149	CH161			
TRP	14.09	13.02	14.31			
TIS			-69.23			

WIFI BAND	802.11b : 11Mbps (2.4G)			802.11g : 54Mbps (2.4G)		
Channel	CH1	CH6	CH11	CH1	CH6	CH11
TRP	14.23	14.53	14.47	14.79	15.08	15.01
TIS			-79.68			-68.03

WIFI BAND	802.11n : MCS7 (2.4G)					
Channel	CH1	CH6	CH11			
TRP	14.95	15.54	15.94			
TIS			-69.28			

PART 6

测试数据/RF Report



WIFI

Passive Test For 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	44.64	2.29
2410	30.88	0.48
2420	37.77	1.19
2430	30.13	0.08
2440	40.02	2.02
2450	32.38	1.24
2460	37.84	2.19
2470	34.05	1.73
2480	33.24	1.67
2490	34.15	1.73
2500	33.46	1.65

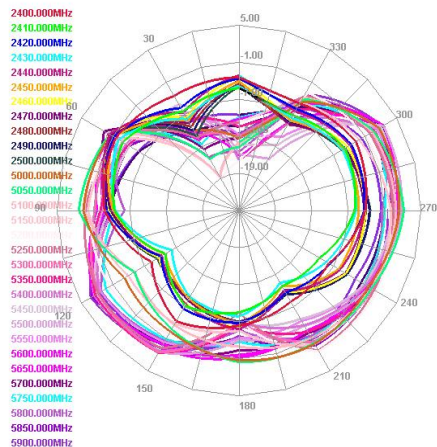
Passive Test For 5G		
Freq (MHz)	Effi (%)	Gain (dBi)
5000	43.73	1.1
5050	44.04	1.56
5100	37.24	1.55
5150	35.3	1
5200	41.41	1.51
5250	46.26	1.2
5300	42.05	0.85
5350	44.37	1.36
5400	40	0.77
5450	40.68	1.06
5500	43.07	1.5
5550	35.94	0.37
5600	41.6	1.09
5650	41.45	1.67
5700	43.56	1.36
5750	34.73	0.93
5800	35.76	0.69
5850	41.78	1.95
5900	45.5	1.2
5950	40.74	1.47
6000	36.12	0.98

PART 6

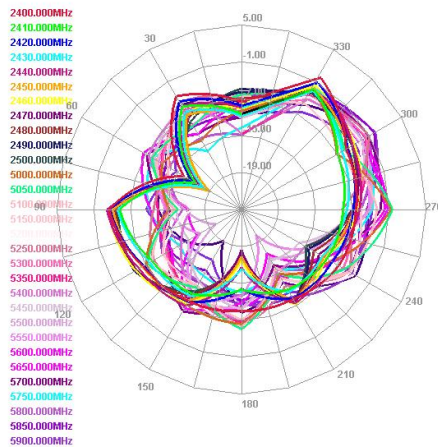
测试数据/RF Report

WIFI

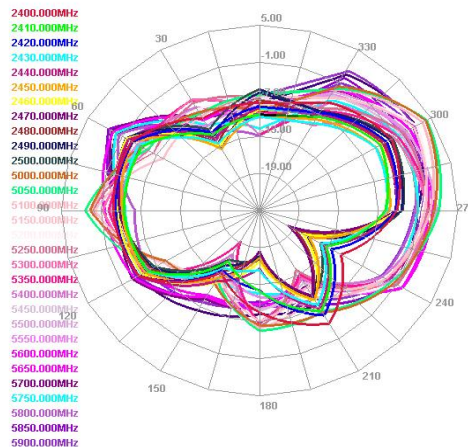
Horizontal



E1 Face



E2 Face



BT

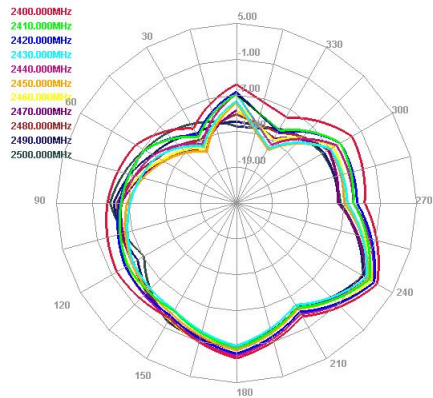
Passive Test For 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	46.47	2.56
2410	40.78	1.08
2420	45.6	1.98
2430	35.06	0.54
2440	44.95	1.45
2450	37.28	0.72
2460	42.8	1.38
2470	37.74	0.48
2480	39.16	0.48
2490	39.11	0.08
2500	41.29	0.21

PART 6

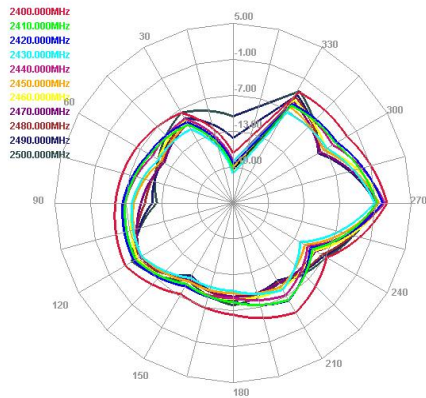
测试数据/RF Report

BT

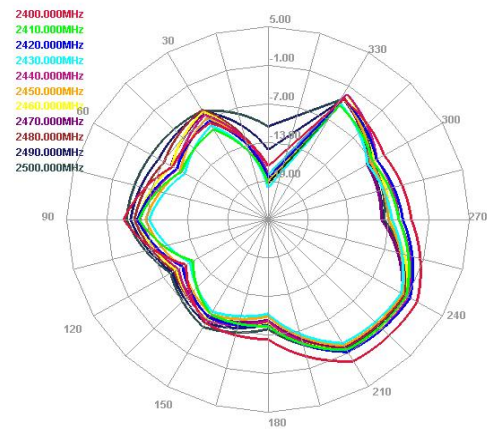
Horizontal



E1 Face



E2 Face





2022

Thanks!

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