



深圳市星源创科技有限公司
SHENZHEN Xingyuanchuang TECHNOLOGY CO., LTD

天线测试报告

Antenna Test Report

MN: truck-FP7R2

RF: 关巍

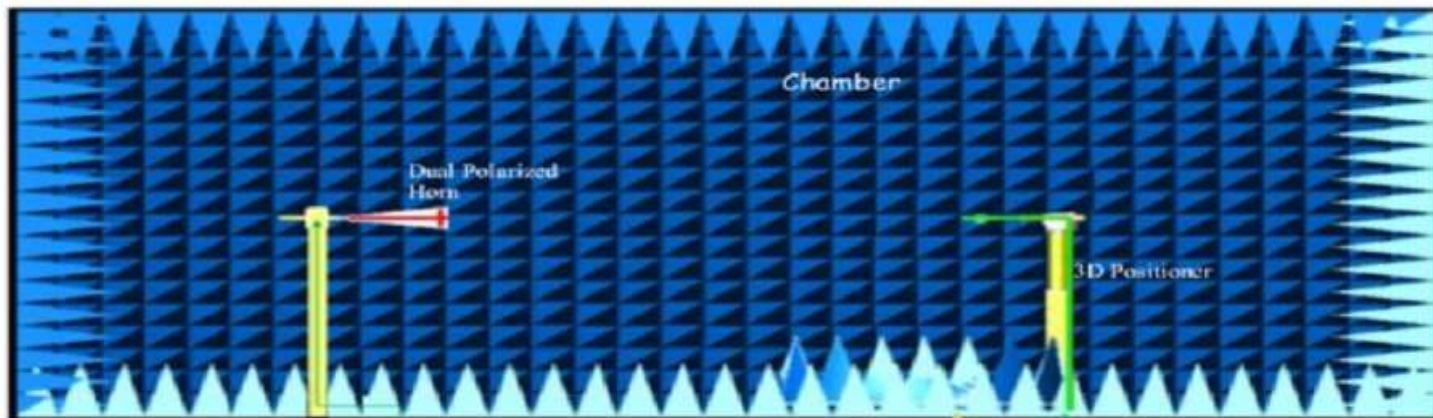
MD: 黄清清

MP: 19918388579

Adress: Room 1506, Tangwei Shareholding Business Building, Tangwei Community, Fuhai Subdistrict, Bao'an District, Shenzhen City

Date: 2025. 4. 2.
REV : V1. 0

OTA Chamber Overview

0.1~12.5Ghz
RF Switch BoxWireless
Communications
Test Set 1Wireless
Communications
Test Set 2Network
Analyzer

Standard

Passive	Agilent HP8753/E5062/E5071
GSM	Agilent 8960
CDMA2000	Agilent 8960
WCDMA	Agilent 8960
TDSCDMA	Agilent 8960
LTE	RS CMW500
BT	RS CMU500/200
WIFI	Agilent N4010

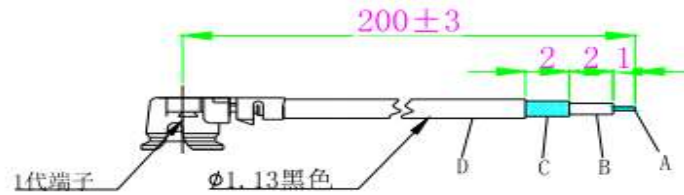
RF Link

GPIB Link

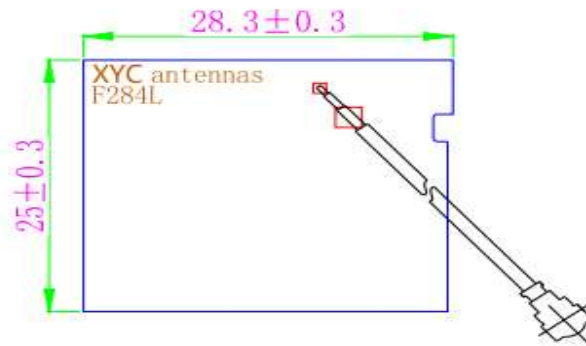
Optical Link

Serial Link

天线规格



A - Center conductor B - Dielectric
C - Outer conductor D - Jacket



BOM 清单	品名	规格(mm)	颜色
	PPC	外形:25x28.3	黑色
	MI-113同轴线	1代端子L=200	黑色
	导电布	无	

 星源创科技有限公司 Xyc Technologies Corp.	设计 DR.	黄清洁	2025-06-17	PART NO.
	核准 APPD.			F284L-21RB-200
单位: mm 1:100 ± 0.1 1:50 ± 0.1 1:20 ± 0.1 1:10 ± 0.1		数量: 个 100 ± 0.1 50 ± 0.1 20 ± 0.1 10 ± 0.1		单位 比例 张数
				2/2

有源测试数据
Active test data



深圳市星源创科技有限公司
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802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	9.55	CH1 11Mbps	-84.86
	2437	CH6 11Mbps	9.65	CH6 11Mbps	-84.95
	2467	CH11 11Mbps	9.33	CH11 11Mbps	-85.13
802.11g		TRP		TIS	
	2412	CH1 54Mbps	10.14	CH36 54Mbps	-72.37
	2437	CH6 54Mbps	10.80	CH60 54Mbps	-72.48
	2467	CH11 54Mbps	10.74	CH161 54Mbps	-72.74
802.11a		TRP		TIS	
	5180	CH36 6Mbps	9.35	CH36 54Mbps	-71.05
	5300	CH60 6Mbps	11.42	CH60 54Mbps	-71.34
	5805	CH161 6Mbps	12.03	CH161 54Mbps	-71.88
802.11g/n		TRP		TIS	
	2412	CH1 MCS7	10.65	CH1 MCS7	-65.97
	2437	CH6 MCS7	10.47	CH6 MCS7	-67.36
	2467	CH11 MCS7	10.74	CH11 MCS7	-68.45



WIFI-吞吐量测试-RVR Throughput test

RVR测试系统(2. 4G-AX-40M-2-CH1)																							
TX						RX																	
图片						Angle\Att.ref							0dB	10dB	20dB	30dB	40dB	Angle\Att.ref	0dB	10dB	20dB	30dB	40dB
						0.0°							436	428	428	364	228	0.0°	488	488	465	285	136
						90.0°							388	380	354	273	202	90.0°	484	478	359	242	143
						180.0°							435	432	430	371	229	180.0°	488	488	474	294	124
270.0°	344	340	344	262	203	270.0°	434	431	381	239	147												
备注																							



WIFI-吞吐量测试-RVR Throughput test

RVR测试系统(2. 4G-AX-40M-2-CH6)																																																																									
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WIFI-吞吐量测试-RVR Throughput test

RVR测试系统 (2. 4G-AX-40M-2-CH11)																																																																								
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WIFI-吞吐量测试-RVR Throughput test

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WIFI-吞吐量测试-RVR Throughput test

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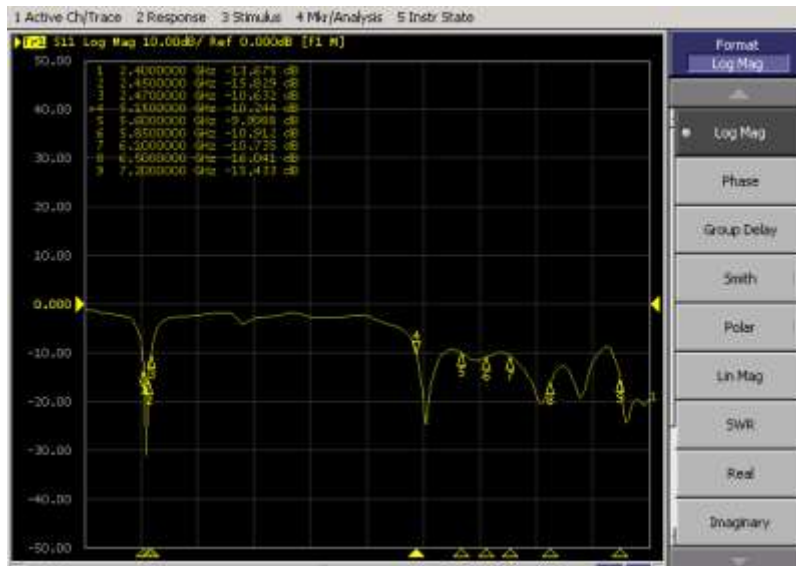
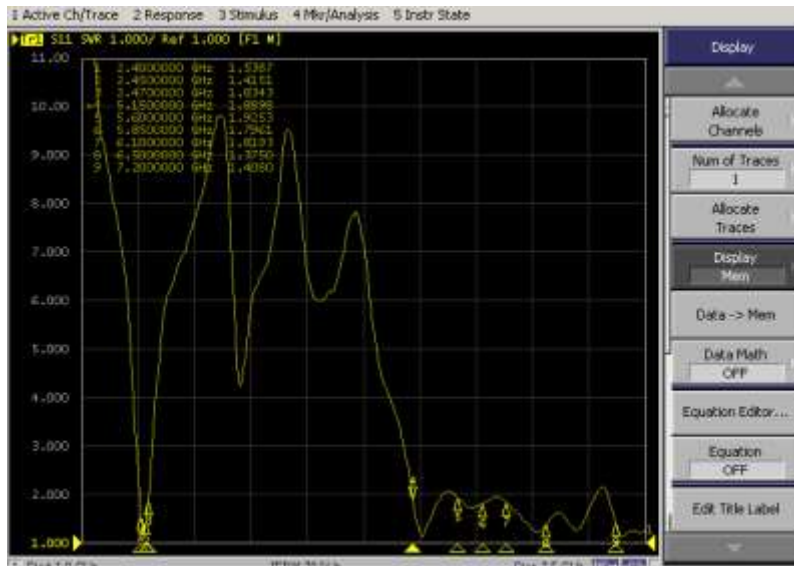
WIFI-吞吐量测试-RVR Throughput test

RVR测试系统 (5G-AX-80M-2-CH161)																																																																								
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无源测试数据

Passive test data

Main ANT S11-VSWR&Return Loss



Frequency (MHZ)	2400	2450	2500	5150	5600	5850	6100	6500	7200
VSWR	1.53	1.41	1.83	1.88	1.92	1.75	1.81	1.37	1.40
Return Loss (DB)	-13.67	-15.82	-10.63	-10.24	-9.99	-10.91	-10.73	-16.04	-15.43

无源测试数据
Passive test data

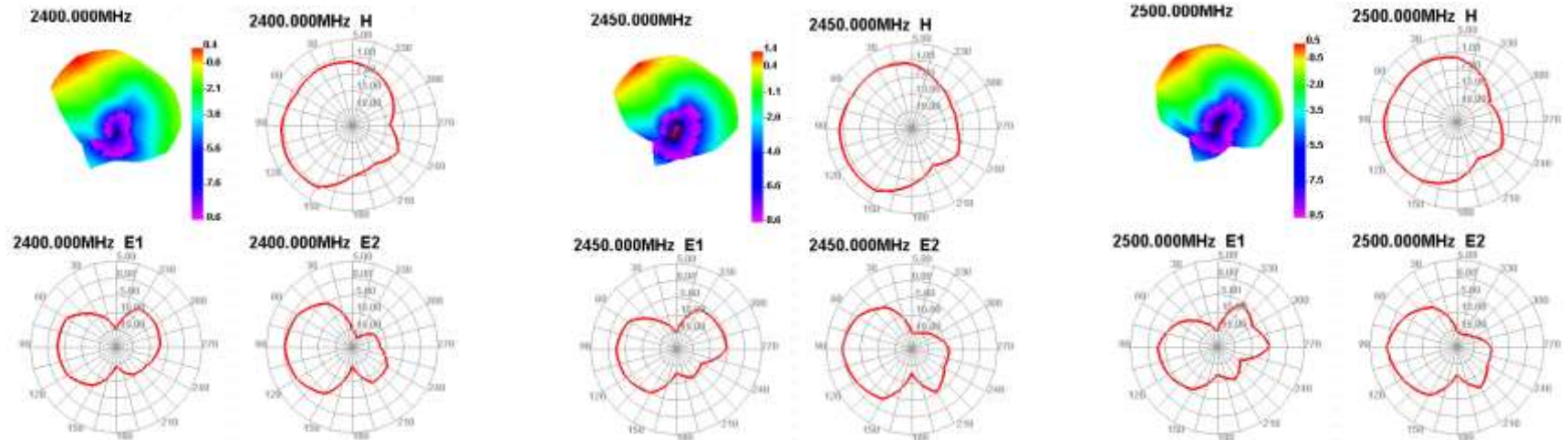
Main ANT GAIN&Efficiency-WIFI2.4G/BT

Passive Test For WIFI2.4

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	33.79	-4.71	0.43	-1.72	16.617	17.173	0.43	-19.34	5.14	60	45.78	46.01
2410	34.93	-4.57	0.86	-1.29	17.332	17.603	0.86	-19.17	5.43	60	46.01	46.29
2420	36.81	-4.34	1.17	-0.98	18.285	18.521	1.17	-18.75	5.51	90	45.73	46.01
2430	36.3	-4.4	1.19	-0.96	18.134	18.163	1.19	-18.75	5.6	90	46.01	46.36
2440	37.49	-4.26	1.33	-0.82	18.741	18.75	1.33	-16.34	5.59	90	46.12	46.48
2450	37.28	-4.29	1.39	-0.76	18.546	18.731	1.39	-16.21	5.68	90	46.12	46.54
2460	38.01	-4.2	1.57	-0.58	18.741	19.272	1.57	-16.86	5.77	60	46.14	46.52
2470	35.3	-4.52	1.25	-0.9	17.286	18.009	1.25	-18.11	5.78	60	46.4	46.8
2480	32.28	-4.91	0.78	-1.37	15.709	16.575	0.78	-19.38	5.69	60	46.26	46.64
2490	30.04	-5.22	0.3	-1.85	14.562	15.481	0.3	-19.71	5.53	30	46.51	46.91
2500	30.64	-5.14	0.49	-1.66	14.799	15.843	0.49	-18.43	5.63	30	46.47	46.86

无源测试数据
Passive test data

Main ANT Direction of figure(2.4/BT)



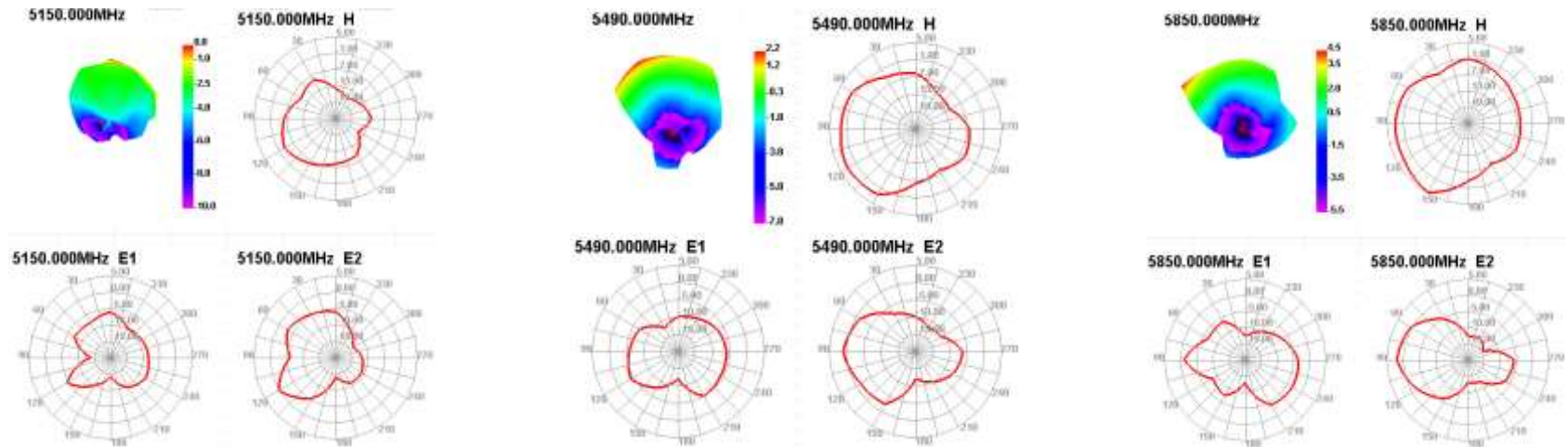
无源测试数据 Passive test data

Main ANT GAIN&Efficiency-WIFI 5G

Passive Test For WIFI5G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	URI5 (%)	URI5 (%)	Max (dB)	Min (dB)	Directivity (dBi)	Bandwidth (3dB)	AttH (dB)	AttV (dB)
5150	25.11	-6.76	0.04	-2.11	9.077	12.031	0.04	-16.48	6.8	0	49.82	49.4
5170	24.43	-6.69	-0.2	-2.35	9.191	12.242	-0.2	-16.23	6.49	0	50.13	49.77
5190	24.3	-6.14	0.19	-1.96	10.301	13.936	0.19	-17.2	6.34	0	50.42	49.95
5210	27.04	-5.68	0.3	-1.85	11.545	15.5	0.3	-16.34	5.98	0	50.88	50.49
5230	26.21	-5.82	-0.23	-2.38	11.264	14.944	-0.23	-16.97	5.59	0	50.42	50.08
5250	31.41	-5.03	0.38	-1.77	13.443	17.967	0.38	-15.48	5.41	0	51.02	50.72
5270	29.08	-5.36	0.06	-2.09	12.302	16.776	0.06	-16.93	5.42	0	50.85	50.6
5290	34.22	-4.66	0.76	-1.39	14.472	19.753	0.76	-17.18	5.42	0	51.34	51.12
5310	29.31	-5.33	0.15	-2	12.567	16.74	0.15	-17.53	5.48	0	50.44	50.36
5330	31.43	-5.03	0.44	-1.71	13.688	17.744	0.44	-16.88	5.47	0	51.08	51.01
5350	31.37	-5.04	0.52	-1.63	13.524	17.842	0.52	-17.48	5.56	0	51.02	51.01
5370	31.36	-5.04	0.58	-1.57	13.398	17.961	0.58	-17.06	5.62	0	50.91	50.95
5390	30.26	-5.19	0.5	-1.65	13.076	17.181	0.5	-17.25	5.69	0	50.46	50.43
5410	37.91	-4.21	1.61	-0.54	16.566	21.348	1.61	-15.84	5.83	0	51.18	51.09
5430	36.38	-4.39	1.57	-0.58	15.742	20.634	1.57	-16.05	5.96	60	50.69	50.7
5450	39.65	-4.02	2.16	0.01	16.874	22.78	2.16	-14.66	6.17	60	50.71	50.85
5470	37.19	-4.3	2.11	-0.04	15.797	21.392	2.11	-14.52	6.41	60	50.93	50.83
5490	37.61	-4.25	2.24	0.09	15.986	21.621	2.24	-14.84	6.49	60	50.92	50.79
5510	40.98	-3.87	2.61	0.46	17.181	23.799	2.61	-15.44	6.49	60	51.18	51.16
5530	41.49	-3.82	2.43	0.28	17.056	24.429	2.43	-15.04	6.25	60	51.44	51.3
5550	45.26	-3.44	3.12	0.97	18.62	26.64	3.12	-14.79	6.57	30	51.69	51.76
5570	40.83	-3.89	3.15	1	17.006	23.825	3.15	-15.12	7.04	30	51.42	51.33
5590	46.26	-3.35	3.8	1.65	19.36	26.903	3.8	-13.78	7.15	30	51.71	51.76
5610	39.42	-4.04	3.27	1.12	16.693	22.729	3.27	-16.39	7.31	30	51.17	51.22
5630	46.67	-3.31	4.21	2.06	20.127	26.547	4.21	-16.83	7.52	30	51.78	51.77
5650	36.14	-4.42	3.3	1.15	16.05	20.093	3.3	-16.96	7.72	30	51.47	51.55
5670	47.48	-3.23	4.58	2.42	21.251	26.229	4.58	-16.19	7.81	60	52.12	52.28
5690	34	-4.69	3.08	0.93	15.378	18.619	3.08	-20.07	7.77	60	52.12	52.25
5710	44.45	-3.52	4.3	2.15	20.597	23.851	4.3	-21.02	7.82	60	51.95	52.05
5730	39.53	-4.03	3.93	1.78	18.781	20.747	3.93	-18.34	7.96	60	51.59	51.69
5750	38.68	-4.13	3.91	1.76	18.587	20.089	3.91	-17.32	8.04	60	51.12	51.15
5770	39.77	-4	3.94	1.79	19.208	20.561	3.94	-17.86	7.94	60	51.02	51.06
5790	37.46	-4.26	3.52	1.37	18.203	19.261	3.52	-18.77	7.78	0	51.08	51.16
5810	39.98	-3.98	3.81	1.66	19.742	20.233	3.81	-17.26	7.79	0	51.36	51.43
5830	42.21	-3.75	4.15	2	21.098	21.111	4.15	-15.48	7.9	0	51.65	51.66
5850	46.34	-3.34	4.48	2.33	23.163	23.178	4.48	-14.73	7.82	0	51.88	52.05

无源测试数据 Passive test data

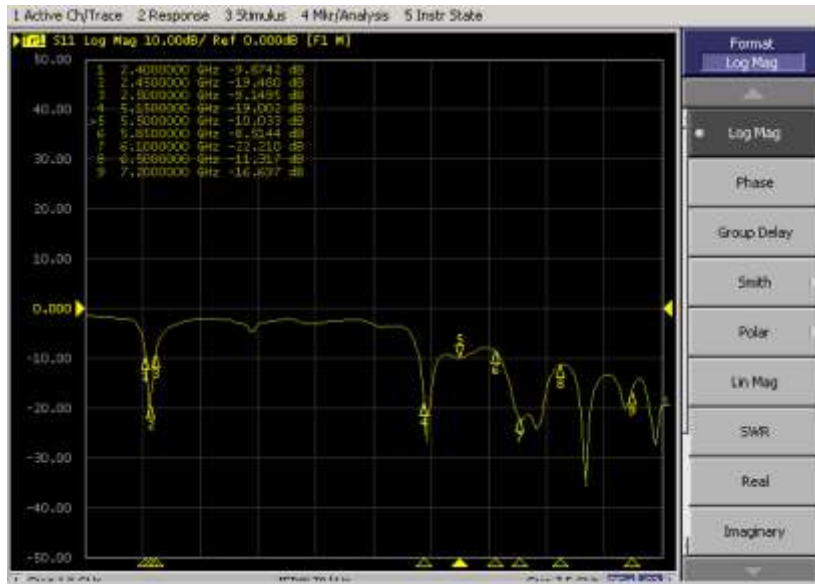
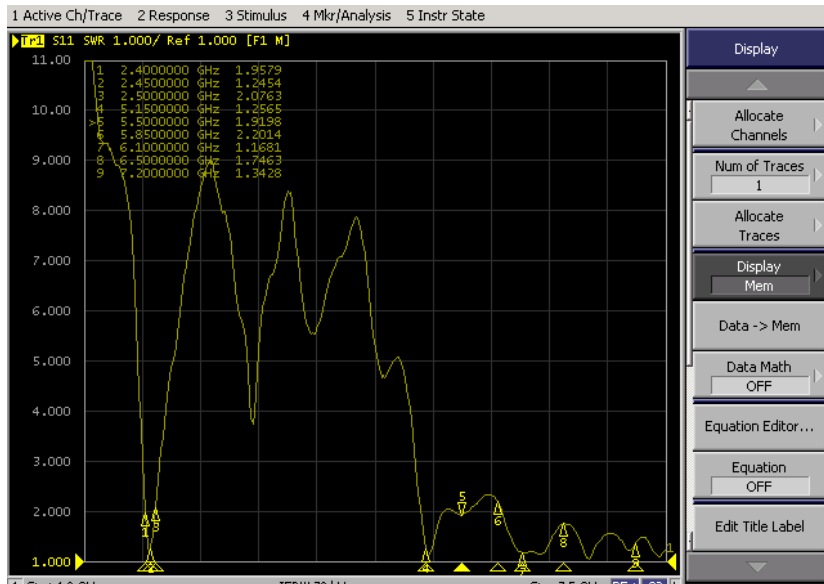
Main ANT Direction of figure(5G)



无源测试数据

Passive test data

AUX ANT S11-VSWR&Return Loss



Frequency (MHZ)	2400	2450	2500	5150	5600	5850	6100	6500	7200
VSWR	1.95	1.24	2.07	1.25	1.91	2.20	1.16	1.74	1.34
Return Loss (DB)	-9.87	-19.48	-9.14	-19.00	-10.03	-8.51	-22.21	-11.31	-16.69

无源测试数据
Passive test data

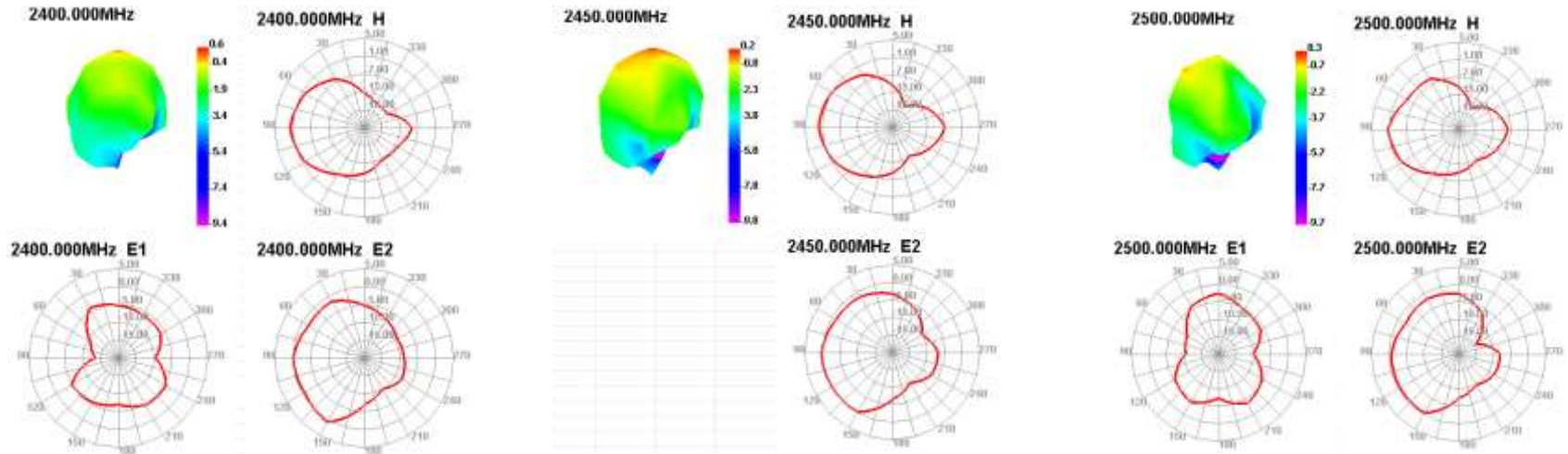
AUX ANT GAIN&Efficiency-WIFI2.4G/BT

Passive Test For WIFI2.4

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	31.81	-4.97	0.65	-1.5	13.747	18.067	0.65	-18.88	5.62	90	45.78	46.01
2410	33.49	-4.75	0.33	-1.82	14.529	18.963	0.33	-19.04	5.08	90	46.01	46.29
2420	35.92	-4.45	0.49	-1.66	15.64	20.282	0.49	-19.21	4.93	90	45.73	46
2430	35.98	-4.44	0.46	-1.69	15.788	20.194	0.46	-19.03	4.9	90	46.01	46.36
2440	36.33	-4.4	0.33	-1.82	16.039	20.287	0.33	-18.75	4.73	30	46.12	46.48
2450	35.81	-4.46	0.16	-1.99	15.761	20.051	0.16	-18.06	4.62	30	46.12	46.54
2460	36.89	-4.33	0.33	-1.82	16.015	20.873	0.33	-17.44	4.67	30	46.14	46.52
2470	33.25	-4.78	0.12	-2.03	14.472	18.779	0.12	-17.54	4.91	30	46.4	46.8
2480	30.27	-5.27	-0.53	-2.68	13.196	16.502	-0.53	-17.47	4.74	30	46.26	46.64
2490	30.22	-5.5	-0.57	-2.72	12.736	15.48	-0.57	-17.41	4.92	30	46.51	46.91
2500	31.25	-5.28	0.27	-1.88	13.451	16.195	0.27	-17.25	5.55	60	46.47	46.86

无源测试数据
Passive test data

AUX ANT Direction of figure(2.4/BT)



无源测试数据

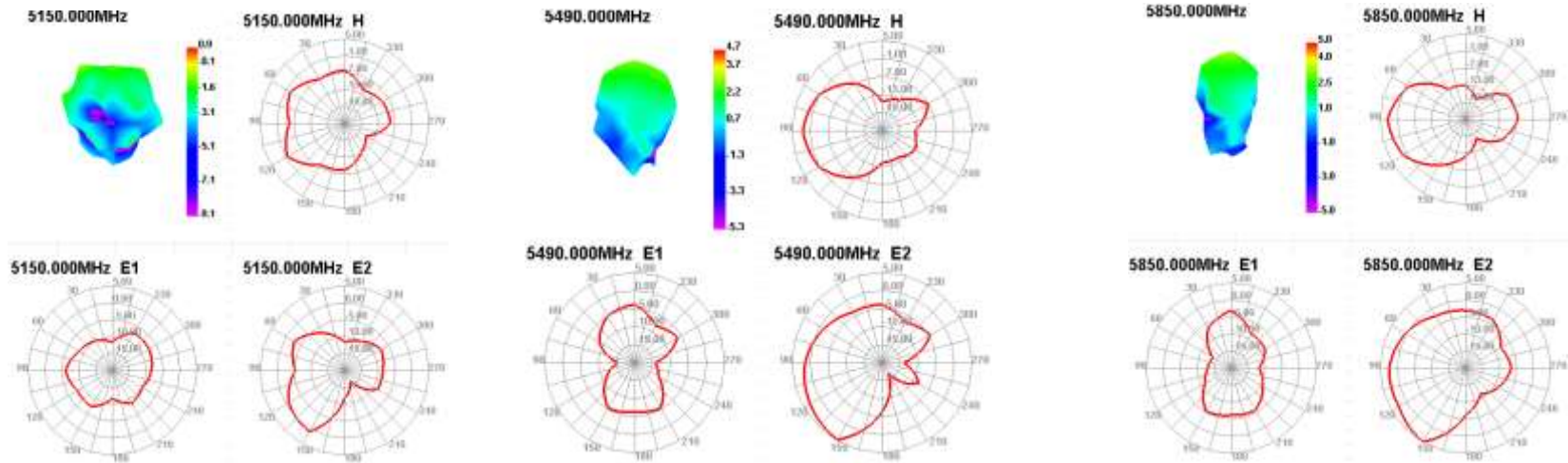
Passive test data

AUX ANT GAIN&Efficiency-WIFI 5G

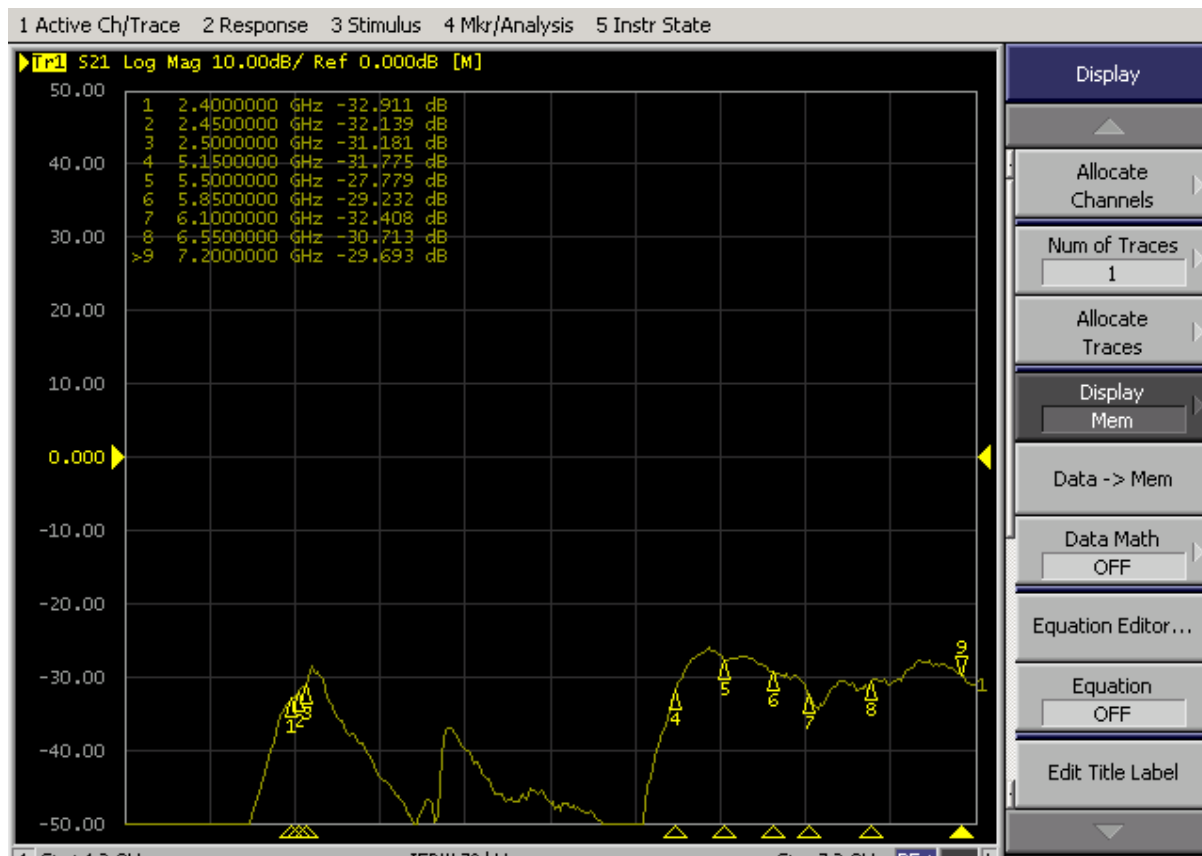
Passive Test For WIFI5G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	23.85	-6.23	0.93	-1.22	10.256	13.593	0.93	-19.9	7.16	90	49.82	49.4
5170	25.61	-5.92	1.45	-0.7	10.904	14.704	1.45	-21.22	7.37	60	50.13	49.77
5190	27.05	-5.68	2	-0.15	11.539	15.514	2	-20	7.68	60	50.42	49.95
5210	30.18	-5.2	2.55	0.4	12.869	17.309	2.55	-18.49	7.75	30	50.88	50.49
5230	28.06	-5.52	2.21	0.06	11.907	16.15	2.21	-17.95	7.73	60	50.42	50.08
5250	35.19	-4.54	3.23	1.08	14.807	20.385	3.23	-17.05	7.76	120	51.02	50.72
5270	33.34	-4.77	3.13	0.98	14.09	19.248	3.13	-18.77	7.9	30	50.85	50.6
5290	41.98	-3.77	4.26	2.11	17.82	24.161	4.26	-22.14	8.03	30	51.34	51.12
5310	35.78	-4.46	3.6	1.45	15.031	20.748	3.6	-21.3	8.06	30	50.44	50.36
5330	38.91	-4.1	3.97	1.82	16.132	22.777	3.97	-18.54	8.07	30	51.08	51.01
5350	40.19	-3.96	4.32	2.17	16.419	23.772	4.32	-19.17	8.28	0	51.02	51.01
5370	42.35	-3.73	4.73	2.58	17.295	25.054	4.73	-21.63	8.46	0	50.91	50.95
5390	37.95	-4.21	4.37	2.22	15.325	22.62	4.37	-21.5	8.58	30	50.46	50.43
5410	43.85	-3.58	4.99	2.84	17.338	26.515	4.99	-16.29	8.57	30	51.18	51.09
5430	37.38	-4.27	4.3	2.15	14.558	22.823	4.3	-15.83	8.58	30	50.69	50.7
5450	41.72	-3.8	4.88	2.73	16.339	25.379	4.88	-15.87	8.68	0	50.71	50.85
5470	37.49	-4.26	4.49	2.34	14.872	22.622	4.49	-20.69	8.75	0	50.93	50.83
5490	39.37	-4.05	4.71	2.56	15.62	23.747	4.71	-19.82	8.76	30	50.92	50.79
5510	37.61	-4.25	4.43	2.28	14.91	22.704	4.43	-21.36	8.68	30	51.18	51.16
5530	39.92	-3.99	4.89	2.74	16.173	23.744	4.89	-23.37	8.88	30	51.44	51.3
5550	38.8	-4.11	4.87	2.72	16.103	22.695	4.87	-28.31	8.98	30	51.89	51.76
5570	40.78	-3.9	5.1	2.95	17.044	23.739	5.1	-25.97	8.99	30	51.42	51.33
5590	39.14	-4.07	4.98	2.83	16.143	23.001	4.98	-22.29	9.05	30	51.71	51.76
5610	39.1	-4.08	5.14	2.99	16.339	22.758	5.14	-21.41	9.22	60	51.17	51.22
5630	33.01	-4.81	4.51	2.36	14.123	18.883	4.51	-24.39	9.33	60	51.78	51.77
5650	34.73	-4.59	4.61	2.46	15.02	19.714	4.61	-19.66	9.2	60	51.47	51.55
5670	36.49	-4.38	4.72	2.57	15.594	20.899	4.72	-19.51	9.09	60	52.12	52.28
5690	34.73	-4.59	4.51	2.36	14.983	19.749	4.51	-28.1	9.11	60	52.12	52.25
5710	41.56	-3.81	5.41	3.26	17.743	23.822	5.41	-22.44	9.22	30	51.95	52.05
5730	39.34	-4.05	5.05	2.9	16.818	22.522	5.05	-20.42	9.1	30	51.59	51.69
5750	41.13	-3.86	5.18	3.03	17.216	23.909	5.18	-18.4	9.04	30	51.12	51.15
5770	41.78	-3.79	5.14	2.99	17.182	24.603	5.14	-21.11	8.93	30	51.02	51.06
5790	41.19	-3.85	5.09	2.94	16.712	24.479	5.09	-24.8	8.94	0	51.08	51.16
5810	41.81	-3.79	5.11	2.96	16.877	24.932	5.11	-19.83	8.9	0	51.36	51.43
5830	42.41	-3.73	5.03	2.88	17.124	25.289	5.03	-18.19	8.75	0	51.65	51.66
5850	43	-3.67	5	2.85	17.197	25.802	5	-17.37	8.66	0	51.88	52.05

无源测试数据
Passive test data

AUX ANT Direction of figure(5G)



隔离度测试 Isolation test



合作共赢

