



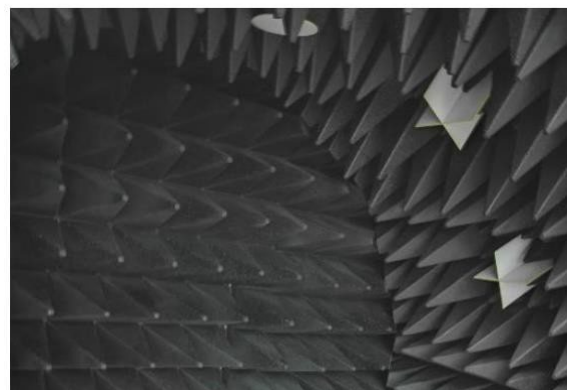
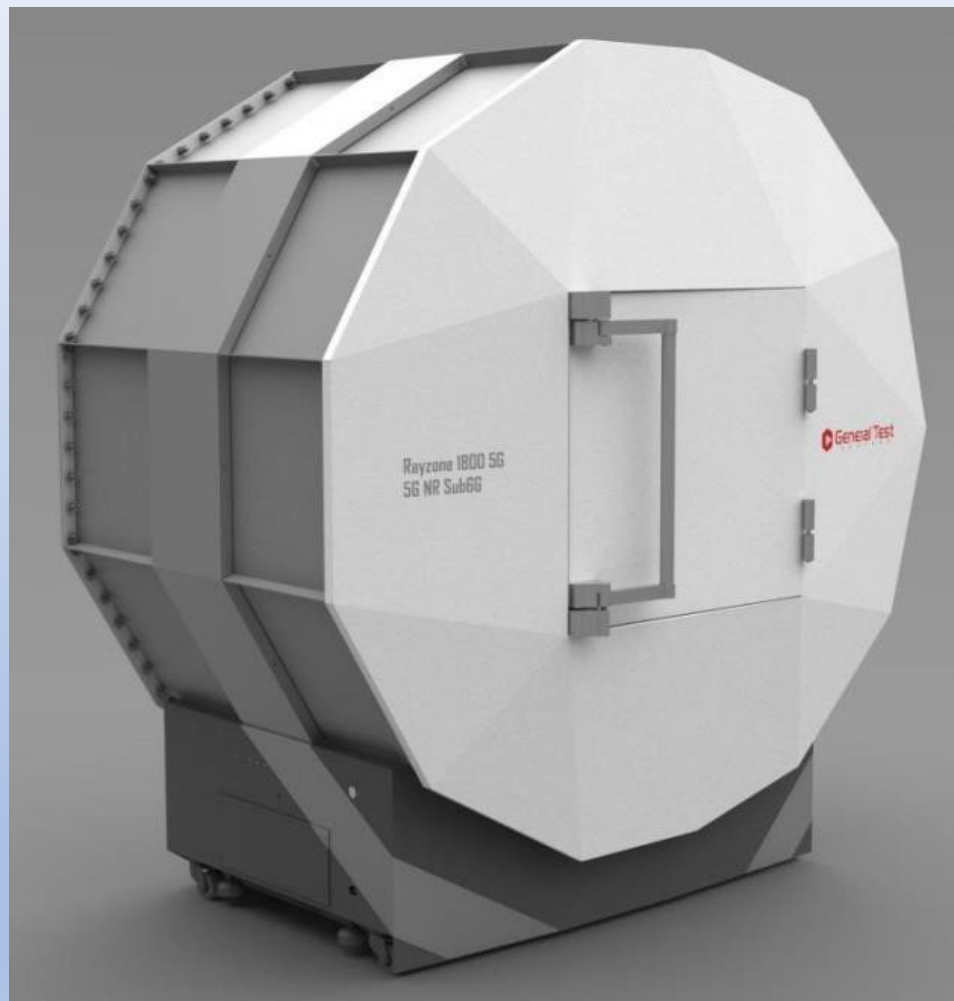
深圳汉阳天线设计有限公司

SHENZHEN HANYANG ANTENNA DESIGN CO.LTD.

客户：GSD

DCT14 Antenna report

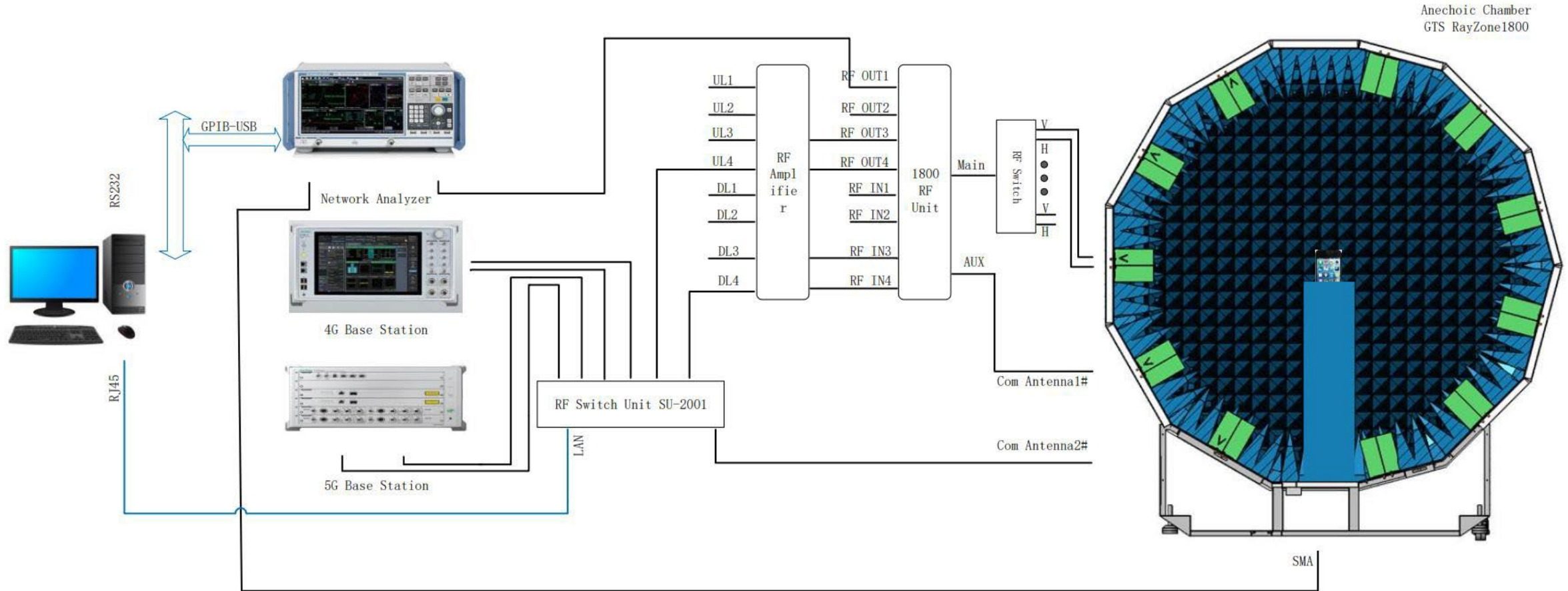
日期：2023-12-06



- 无线通信标准: 2G/3G/4G/5G(FR1)/GNSS/A-GNSS/Wi-Fi/Bluetooth
- 物联网通信标准: LTE Cat NB1(NB-IoT)/Cat-M1(e-MTC)
- SISO测试TRP/TIS/EIRP/EIS, 2x2 MIMO吞吐率测试;
- 无源天线测试、Desense测试、ICS
- 支持600MHz-7.5GHz频段
- GTS MaxSign 100 测试软件支持天线/OTA测试, 提供可视化数据分析
- 新型EPP硬质环保吸波材料、低RCS高增益测量天线组、透波转台和夹具
- 快速MIMO测试; 认证级测试精度
- 一体化设计, 即插即用, 维护简单



RayZone1800 Test Setup



Address of the testing laboratory :Shenzhen Baoan District Qianjin 2 Road BaoYunda logistics information building 12A11

Test Date: 12/6/2023

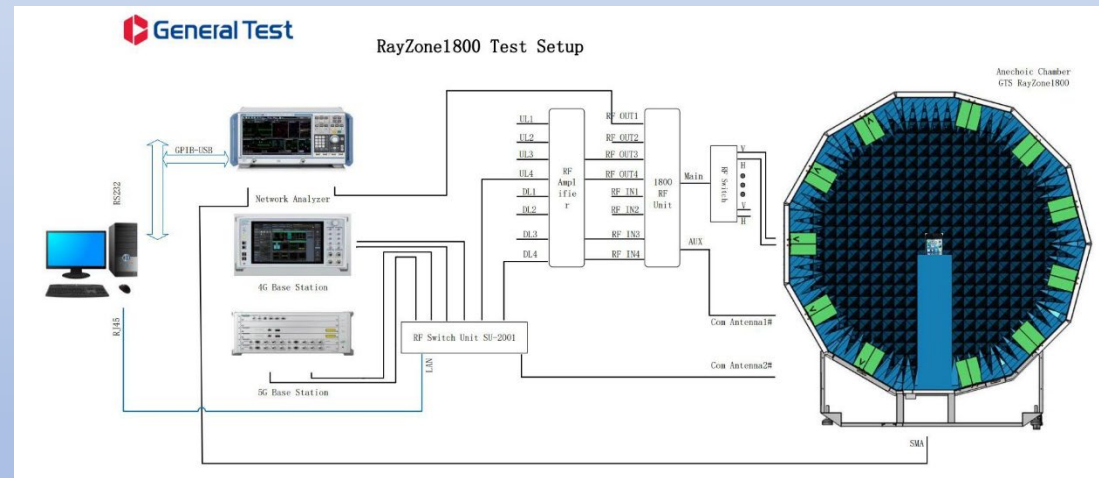
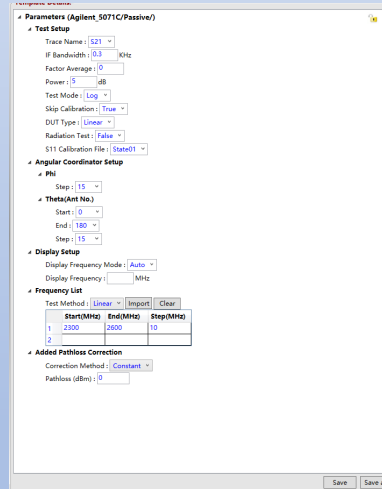
Test Engineer: Liu Deng

Software name and version: GTS_MAX SIGN Libra1.2.7

Cal Date:12/6/2023

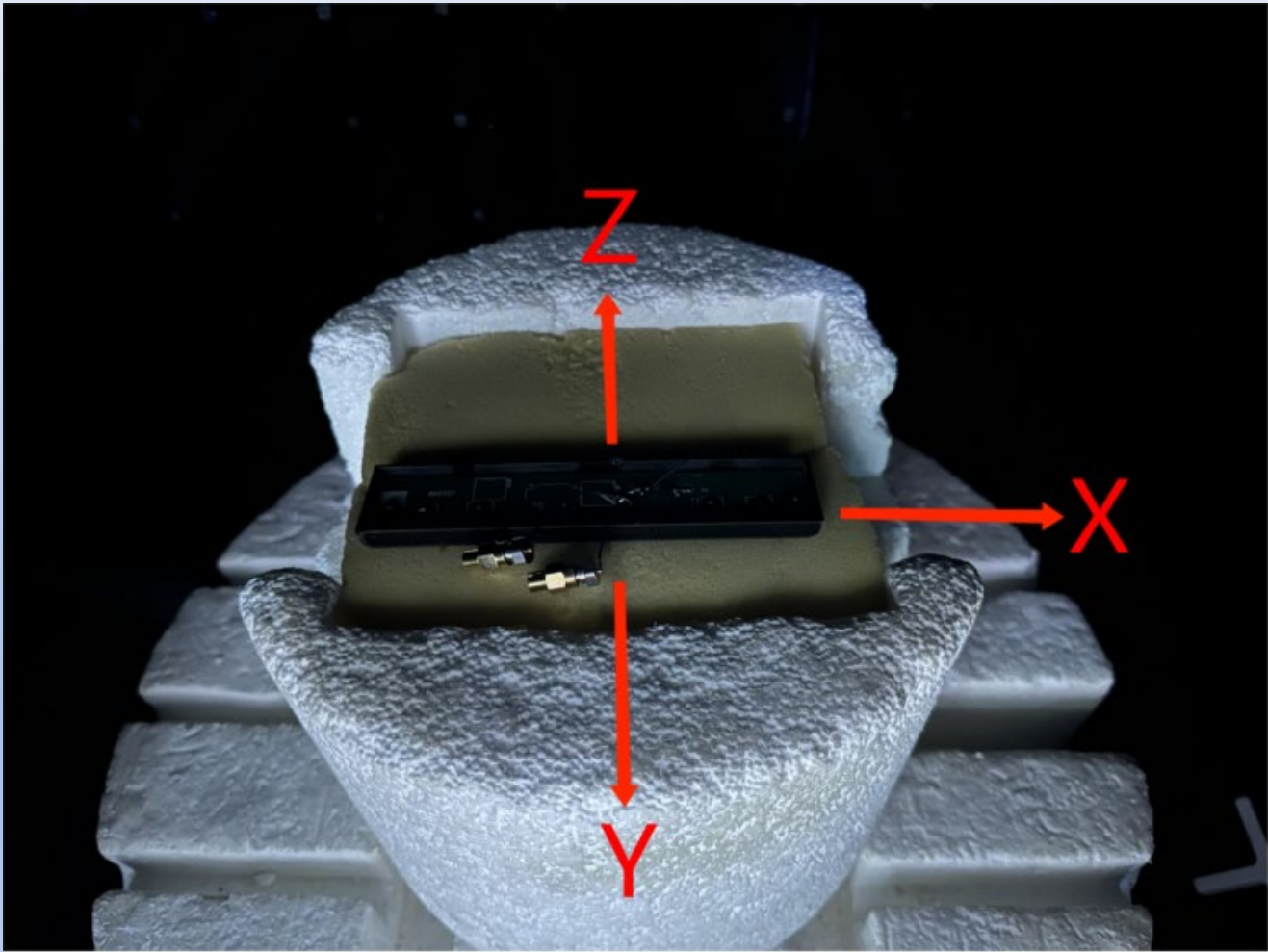
Test Standard:Generic standard

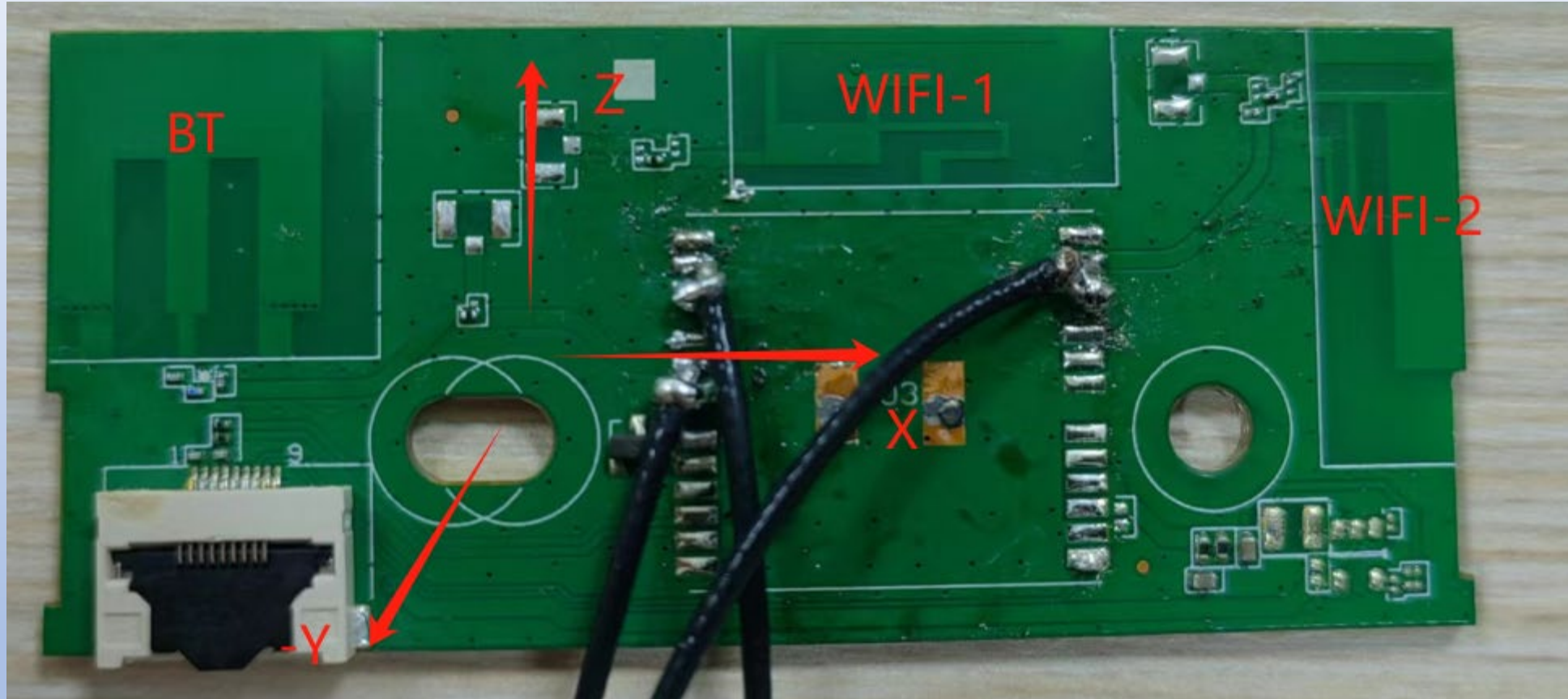
Test set-up:



Test flow:

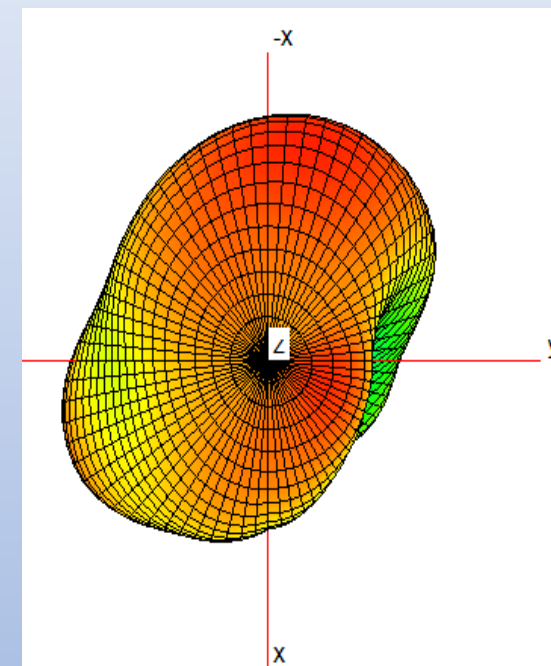
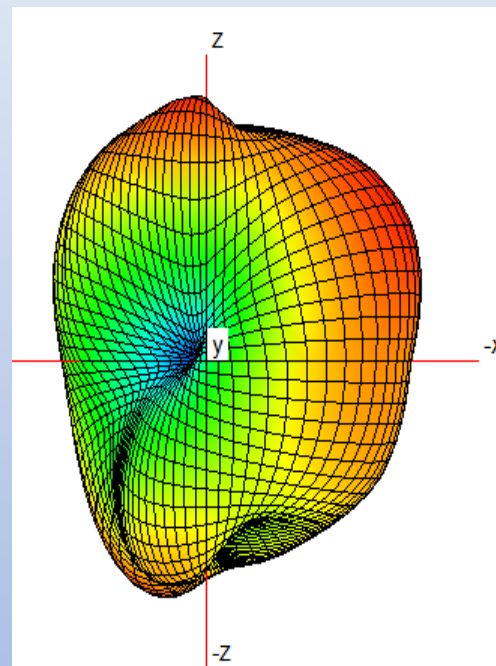
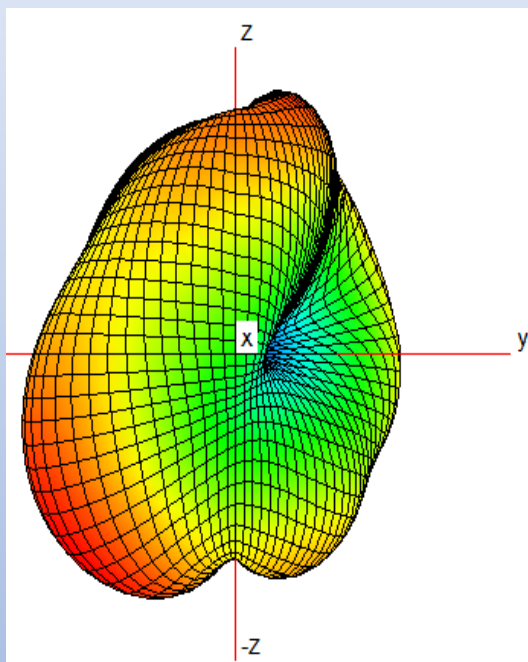
校准设备表	测试仪器	制造商	型号	系列号	校准日期	校准过期日期
	网络分析仪	Keysight	E5071C	MY47002902	2023. 04. 01	2024. 03. 30
	CMW500天线测试系统	GTS	1800	/	2023. 04. 01	2024. 03. 30





2400-2500MHz			
Freq	Efficiency_dB	Gain	Efficiency_Pcent
2400	-14.16	-1.18	3.84
2410	-14.38	-1.2	3.65
2420	-14.6	-1.22	3.47
2430	-14.89	-1.25	3.24
2440	-15.33	-1.29	2.93
2450	-15.69	-1.32	2.7
2460	-16	-1.36	2.51
2470	-16.34	-1.39	2.32
2480	-16.65	-1.41	2.16
2490	-17.09	-1.44	1.95
2500	-17.41	-1.47	1.82

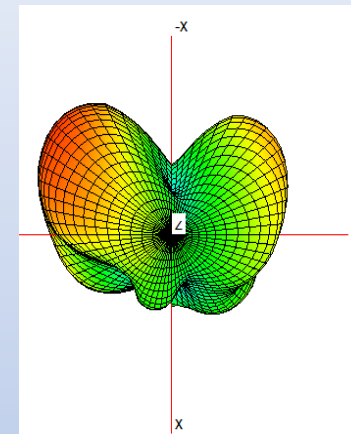
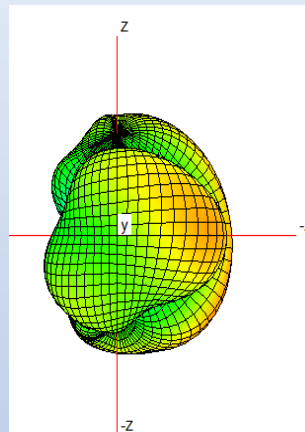
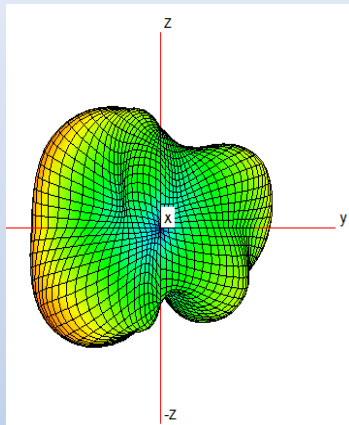
2450MHz



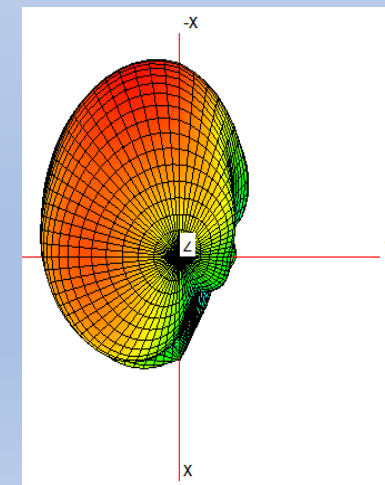
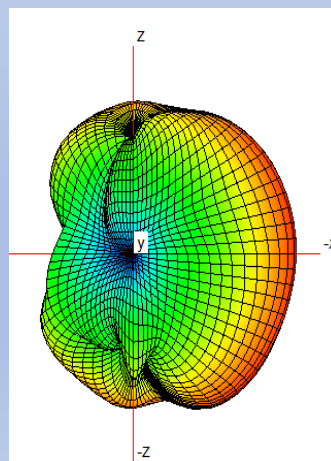
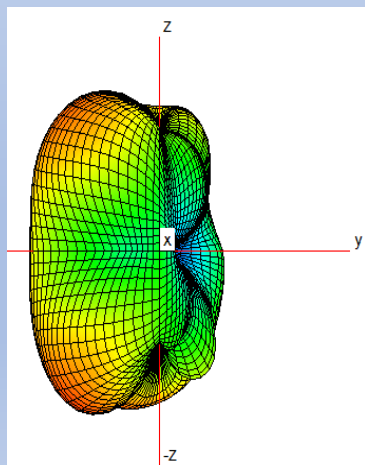
2400-2500MHz			
Freq	Efficiency_dB	Gain	Efficiency_Pcent
2400	-3.07	2	49.32
2410	-3.12	1.92	48.77
2420	-3.14	1.9	48.55
2430	-3.24	1.75	47.41
2440	-3.35	1.57	46.26
2450	-3.43	1.37	45.37
2460	-3.5	1.15	44.67
2470	-3.57	0.96	43.93
2480	-3.68	0.61	42.86
2490	-3.81	0.32	41.55
2500	-3.86	0.08	41.07

5150-5850MHz			
Freq	Efficiency_dB	Gain	Efficiency_Pcent
5150	-1.74	3.18	66.94
5175	-1.7	3.35	67.61
5200	-1.62	3.49	68.93
5225	-1.63	3.57	68.71
5250	-1.65	3.63	68.4
5275	-1.88	3.34	64.87
5300	-1.9	3.31	64.53
5325	-1.97	3.19	63.57
5350	-1.85	3.31	65.3
5375	-1.71	3.51	67.49
5400	-1.66	3.66	68.2
5425	-1.69	3.72	67.78
5450	-1.93	3.48	64.11
5475	-2.25	3.14	59.53
5500	-2.3	3	58.89
5525	-2.15	3.15	60.99
5550	-2.04	3.28	62.49
5575	-1.99	3.28	63.27
5600	-2.03	3.18	62.64
5625	-2.05	3.12	62.41
5650	-2.12	3.07	61.38
5675	-2.28	2.91	59.1
5700	-2.26	3.03	59.37
5725	-2.41	2.92	57.42
5750	-2.45	2.85	56.89
5775	-2.53	2.73	55.87
5800	-2.49	2.67	56.42
5825	-2.63	2.53	54.59
5850	-2.57	2.47	55.37

2450MHz



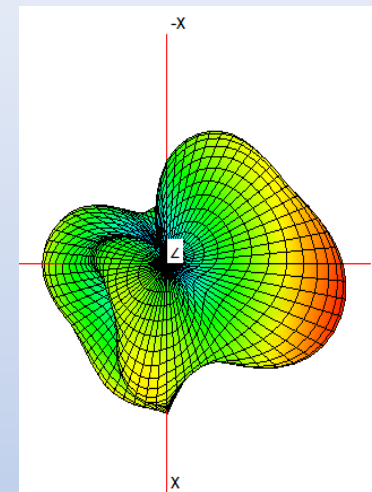
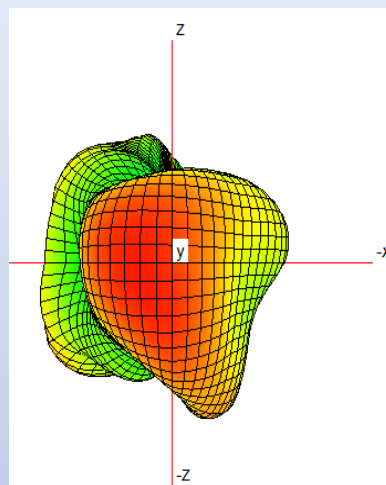
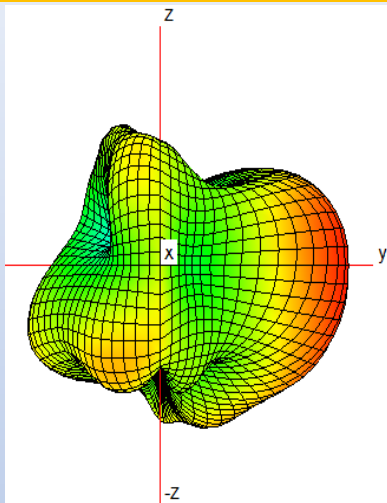
5550MHz



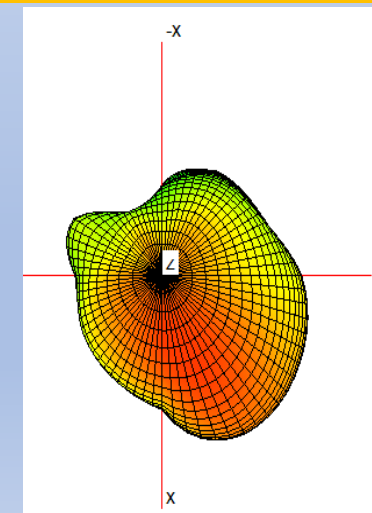
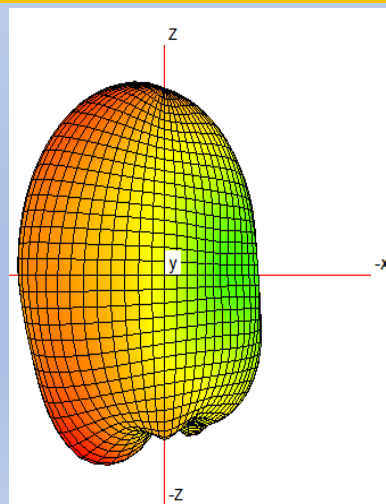
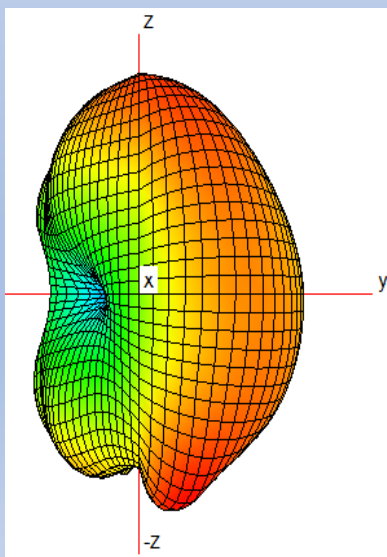
2400-2500MHz			
Freq	Efficiency_dB	Gain	Efficiency_Pcent
2400	-3.49	1.26	44.82
2410	-3.48	1.45	44.92
2420	-3.44	1.67	45.28
2430	-3.46	1.81	45.12
2440	-3.49	1.92	44.72
2450	-3.51	2.03	44.55
2460	-3.51	2.1	44.54
2470	-3.52	2.12	44.44
2480	-3.55	2.13	44.15
2490	-3.63	2.02	43.39
2500	-3.64	1.96	43.24

5150-5850MHz			
Freq	Efficiency_dB	Gain	Efficiency_Pcent
5150	-2.17	2.59	60.64
5175	-2.13	2.76	61.19
5200	-2.06	2.93	62.18
5225	-2.06	2.94	62.26
5250	-2.04	2.83	62.45
5275	-2.27	2.43	59.29
5300	-2.34	2.3	58.28
5325	-2.47	2.06	56.65
5350	-2.4	2.14	57.58
5375	-2.23	2.3	59.81
5400	-2.15	2.38	60.93
5425	-2.14	2.71	61.03
5450	-2.33	2.83	58.49
5475	-2.58	2.76	55.24
5500	-2.65	2.74	54.28
5525	-2.57	2.83	55.38
5550	-2.53	2.92	55.88
5575	-2.51	2.92	56.09
5600	-2.61	2.79	54.86
5625	-2.68	2.77	53.92
5650	-2.85	2.67	51.92
5675	-3.07	2.61	49.3
5700	-3.13	2.71	48.6
5725	-3.33	2.65	46.44
5750	-3.5	2.45	44.64
5775	-3.61	2.22	43.6
5800	-3.62	2.06	43.46
5825	-3.79	1.74	41.8
5850	-3.98	1.44	39.96

2450MHz



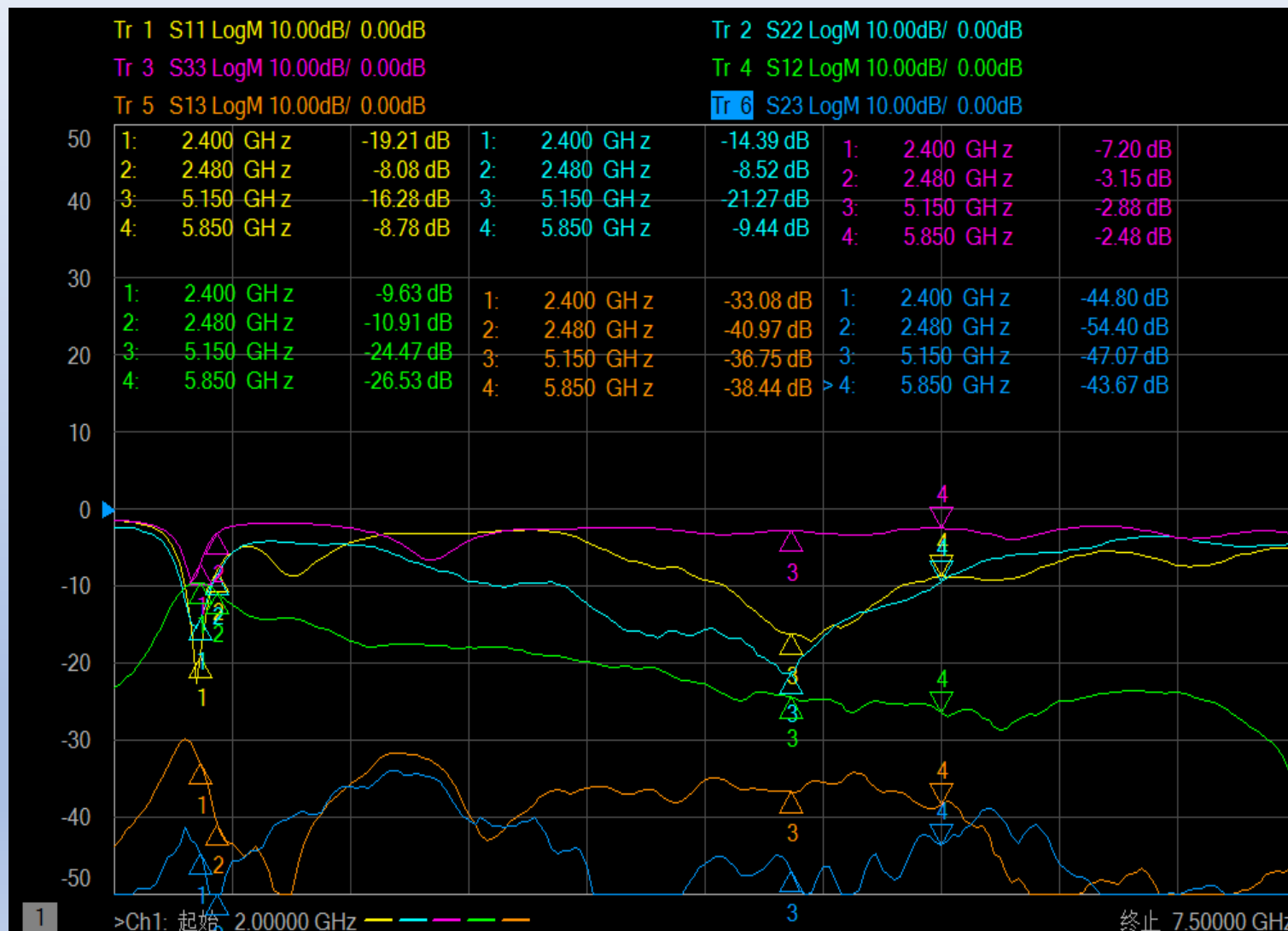
5550MHz



S11-WIFI-1

S22-WIFI-2

S33-BT





深圳汉阳天线设计有限公司

SHENZHEN HANYANG ANTENNA DESIGN CO., LTD.

5G

Welcome calls consultations, negotiations and guidance come!

Thank you

地址：深圳市宝安区前进路宝运达物流信息大厦**12A**层。

电话：**0755-23069700**

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