

Antenna Evaluation Report

Customer	国光	Project	CHARGE 5 Wi-Fi
Report Version	V4.0	Report Date	2022-06-18
Prepared by	舒席良	Checked by	张磊

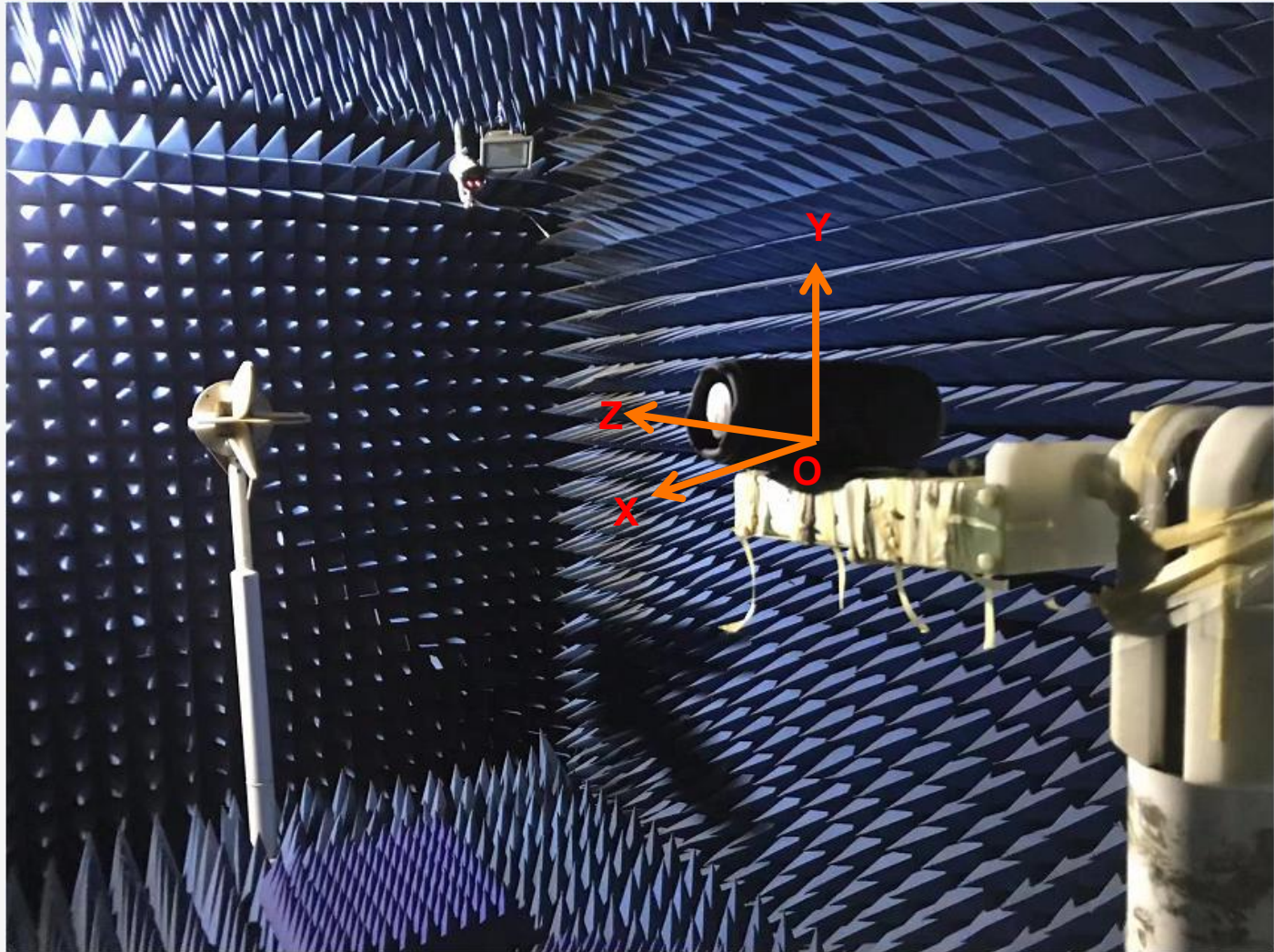


项目评估射频需求概况

机型	音响		
天线形式			
频段及天线材质	主天线		材质
	BT	2400-2500MHZ	FPC+同轴线
	WIFI	2400-2500MHz 5150-5850MHz	FPC+同轴线



2.机台在暗室中的摆放位置



H面: XOY

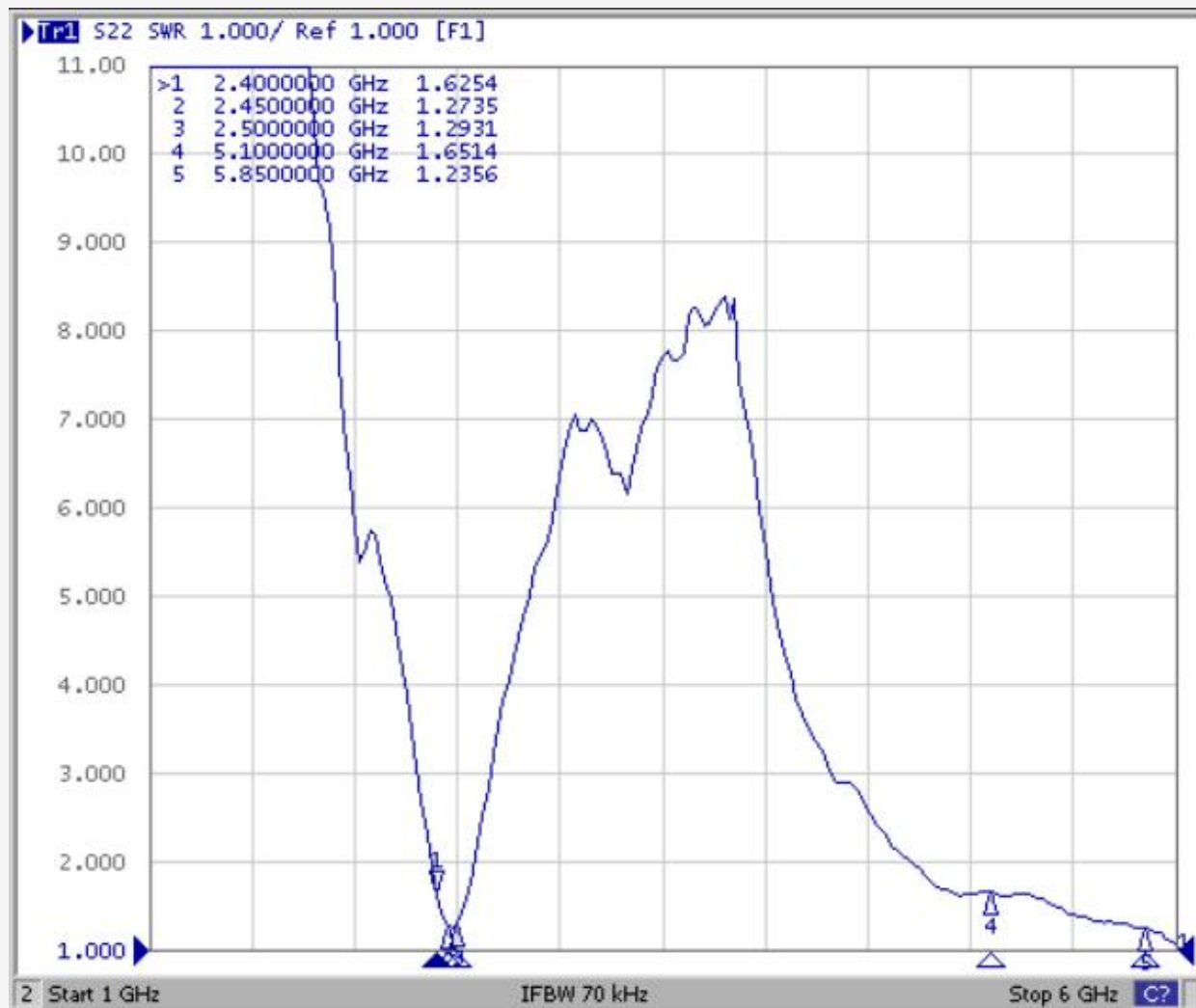
E1面: XOZ

E2面: YOZ



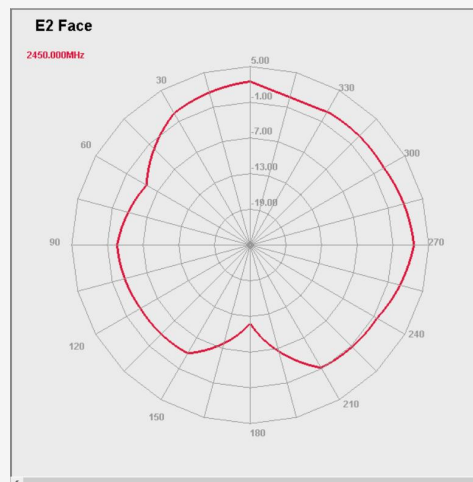
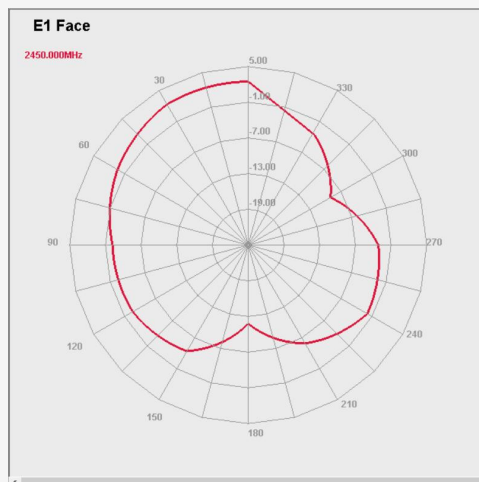
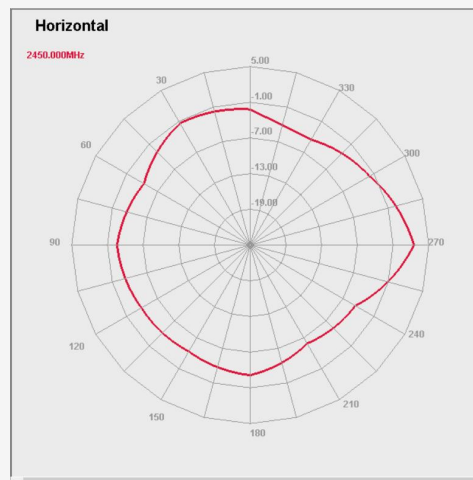
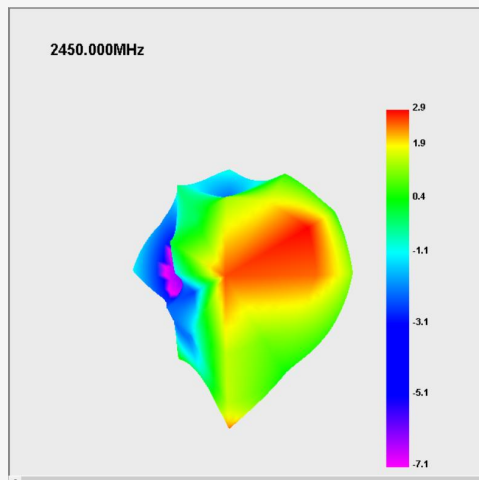
3.S参数

WiFi-1



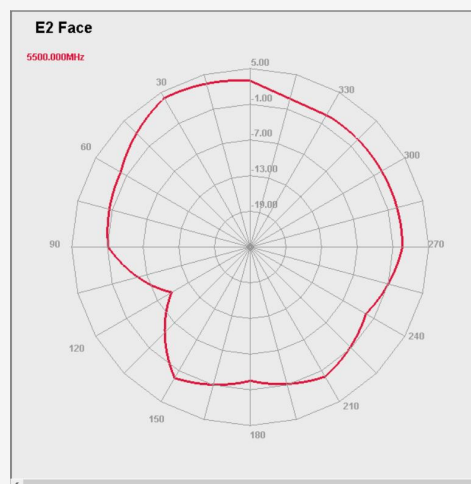
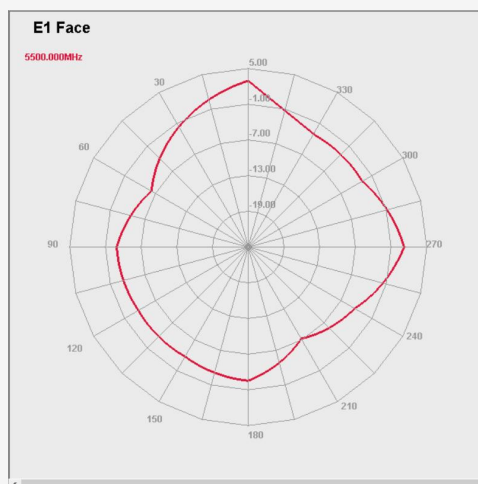
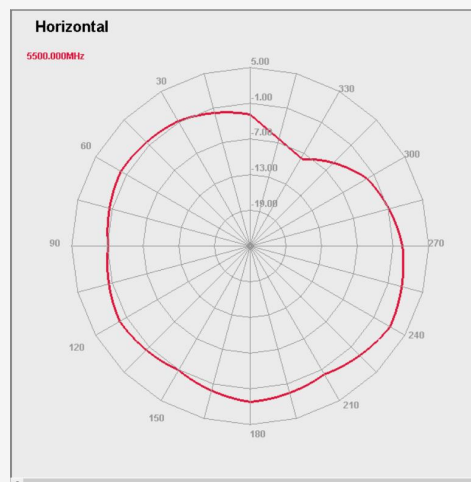
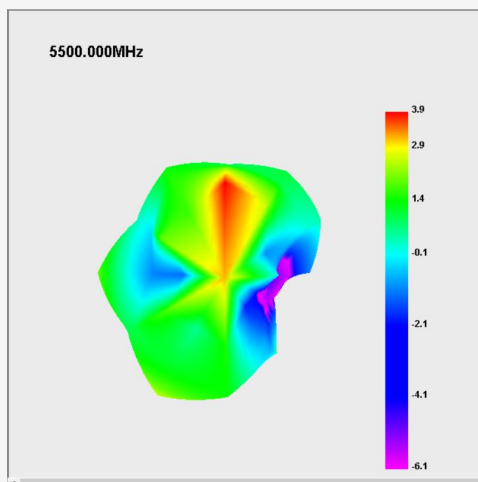
8.3D&2D场形图

WiFi-1: 2.4G



9.3D&2D场形图

WiFi-1: 5.8G



6.无源效率

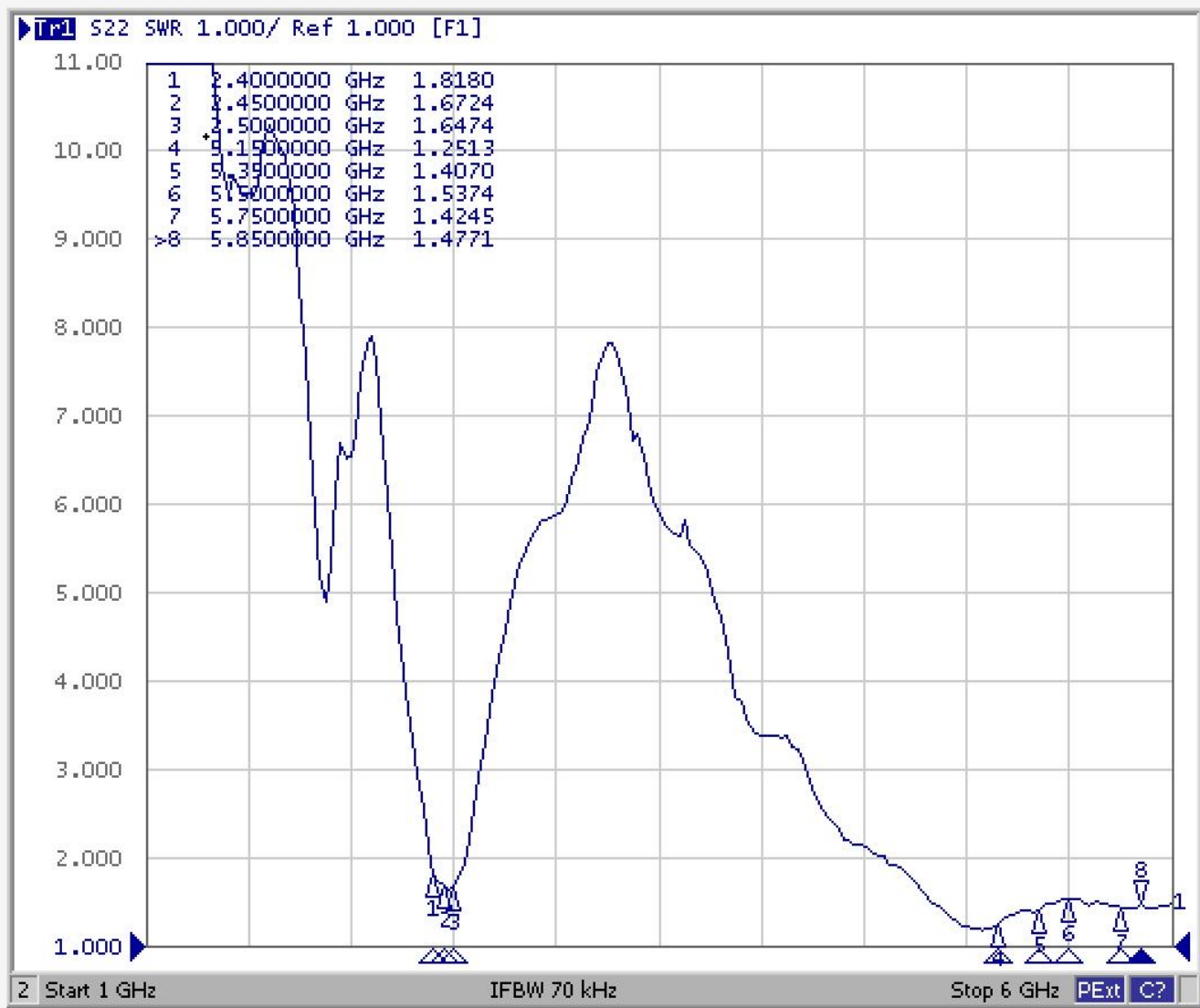
WiFi-1

Freq (MHz)	Effi (%)	Gain (dBi)
2400	50.26	2.34
2450	60.73	2.91
2500	67.93	2.58
5150	52.05	3.84
5350	59.73	4.06
5500	62.72	3.90
5650	59.85	4.33
5750	58.39	4.10
5850	55.04	3.75



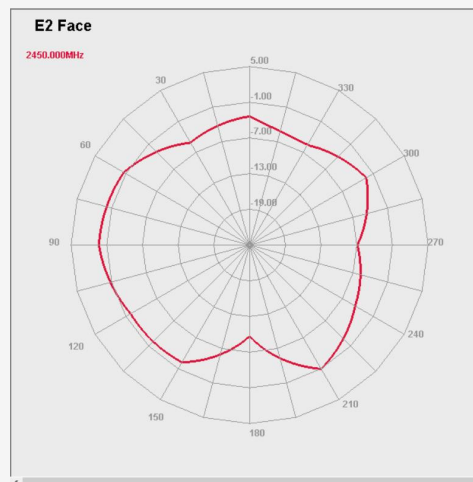
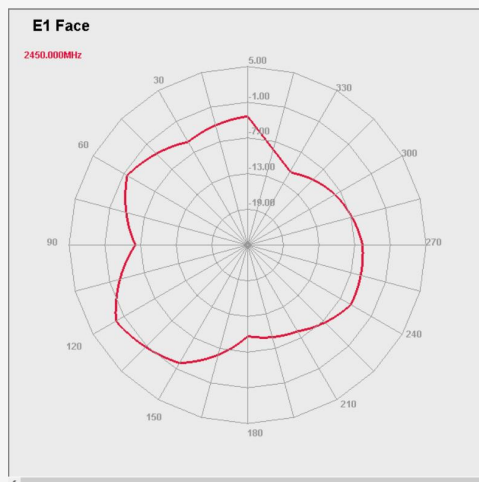
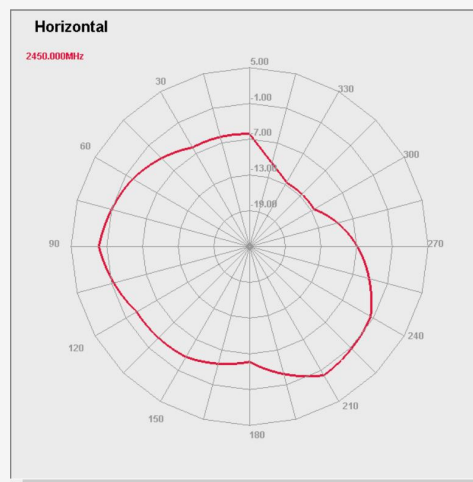
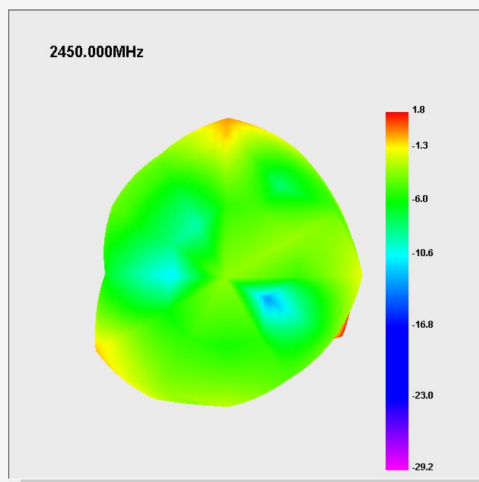
7.S参数

WiFi-2



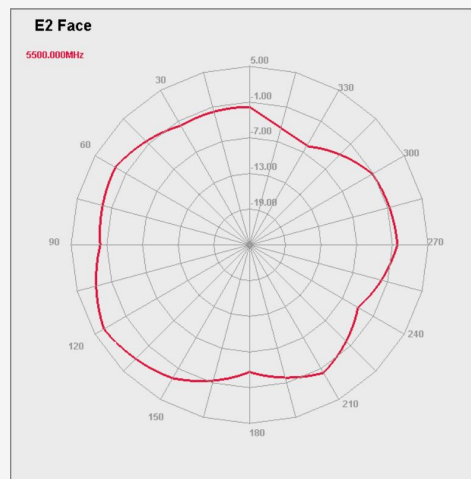
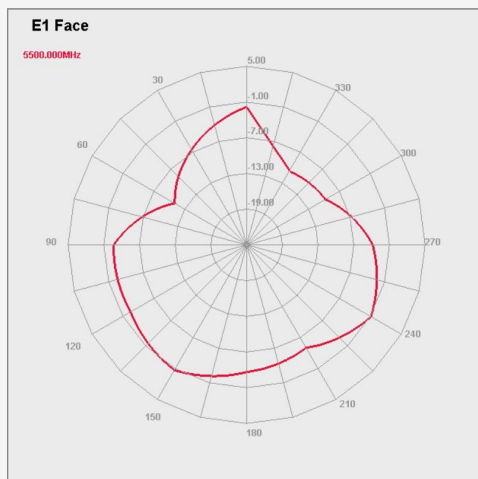
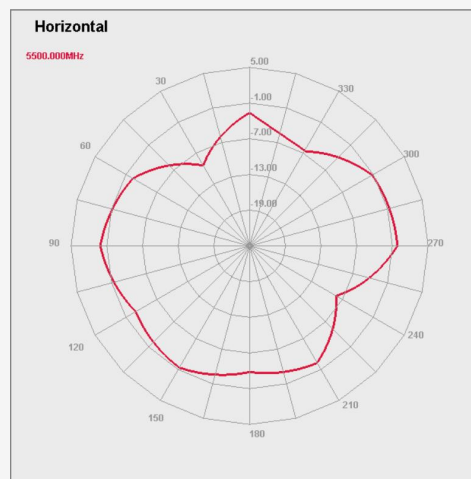
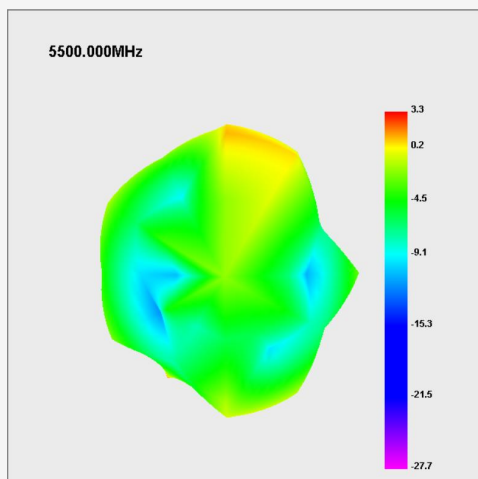
8.3D&2D场形图

WiFi-2: 2.4G



9.3D&2D场形图

WiFi-2: 5.8G



10.无源效率

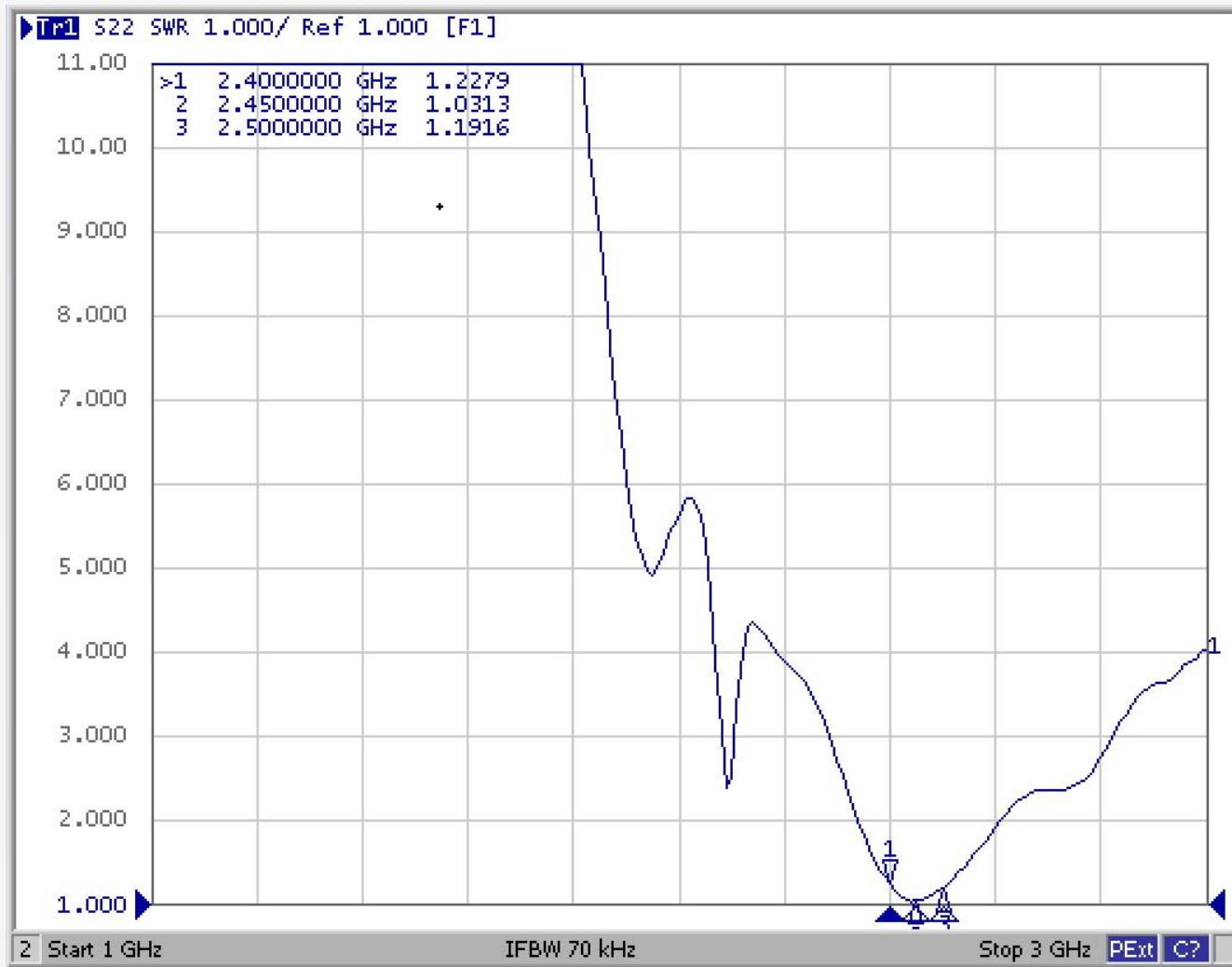
WiFi-2

Freq (MHz)	Effi (%)	Gain (dBi)
2400	55.36	1.36
2450	55.62	1.79
2500	58.28	2.36
5150	53.02	3.79
5350	58.61	4.59
5500	60.45	3.28
5650	58.27	3.79
5750	55.04	4.29
5850	52.83	4.27



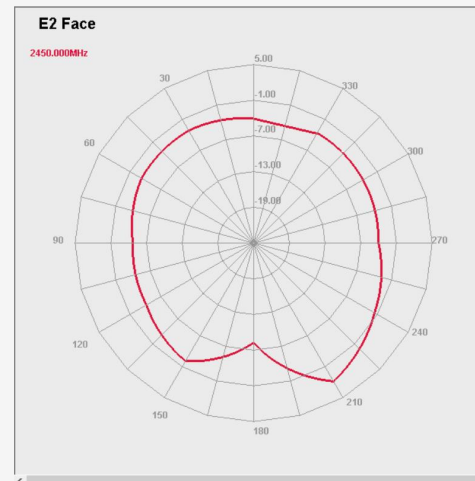
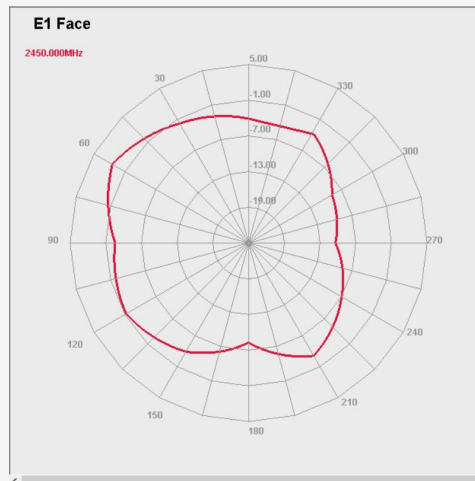
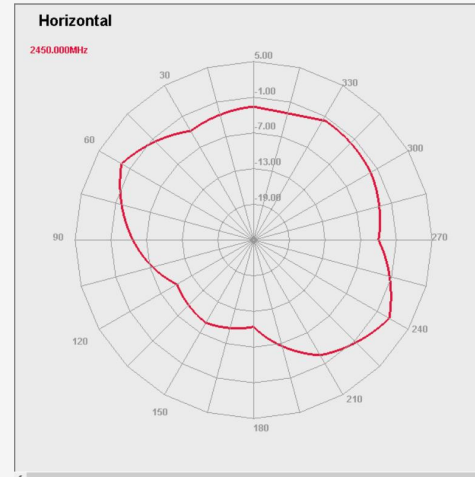
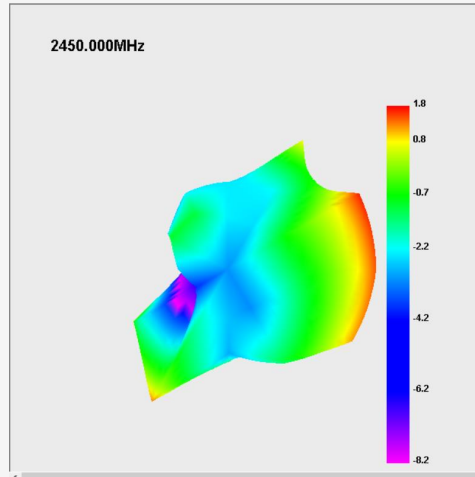
11.S参数

BT



12.3D&2D场形图

BT



13.无源效率

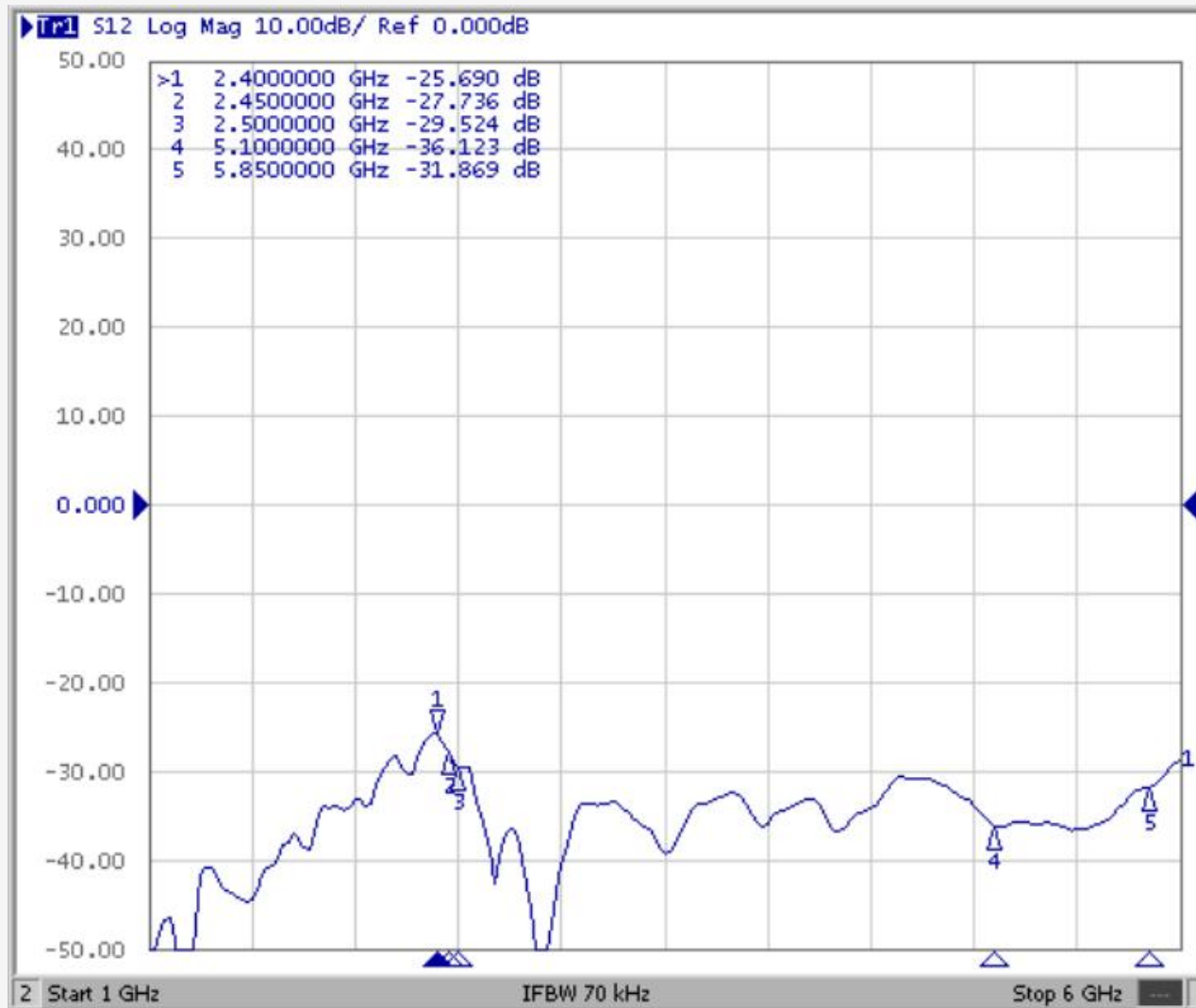
BT

Freq (MHz)	Effi (%)	Gain (dBi)
2400	60.97	2.60
2410	61.25	2.39
2420	60.28	2.10
2430	58.55	1.89
2440	59.58	2.05
2450	59.07	1.85
2460	60.22	2.02
2470	58.40	1.70
2480	56.52	1.70
2490	54.70	1.65
2500	54.18	1.66



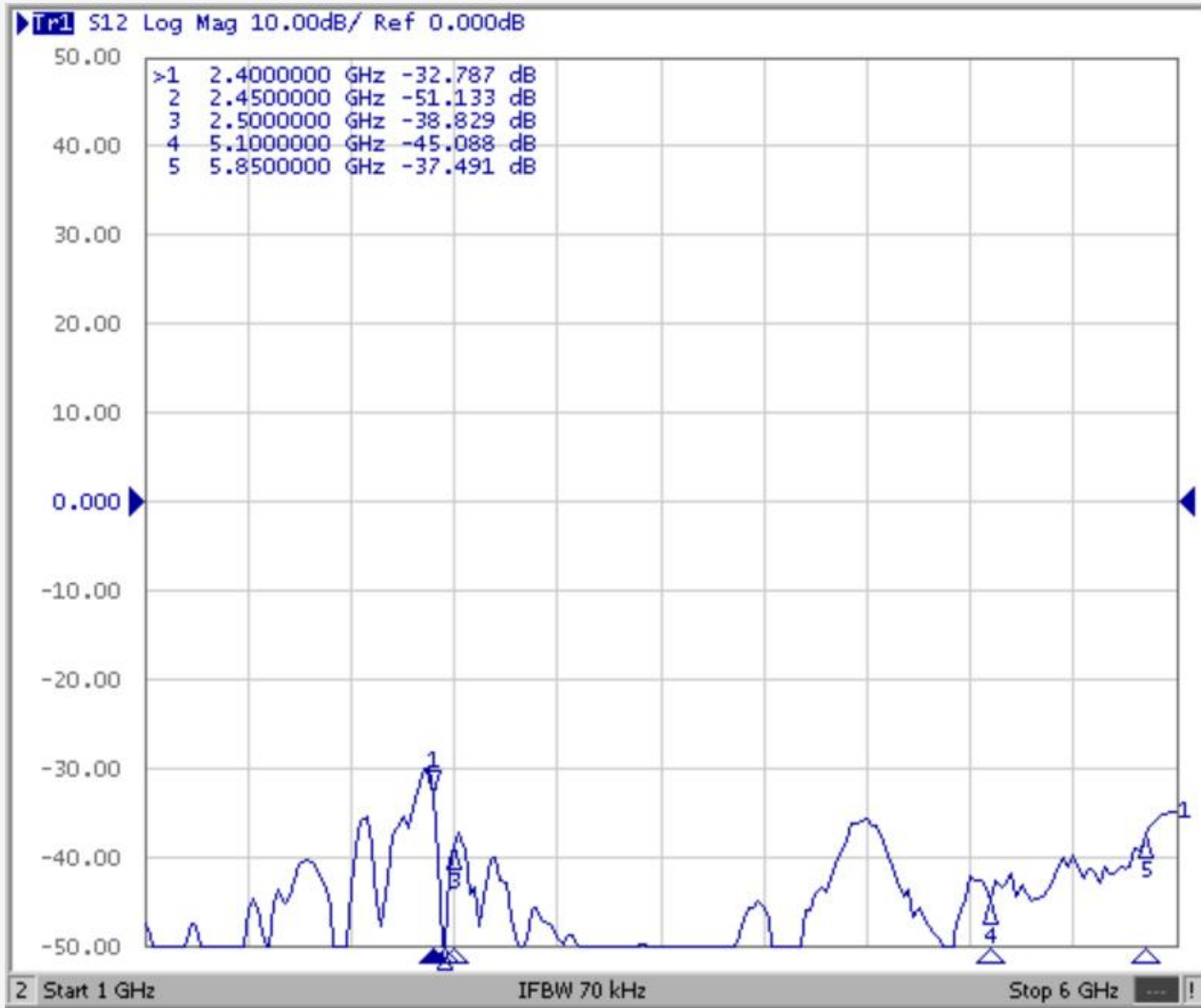
14. 隔离度

WiFi-1&BT



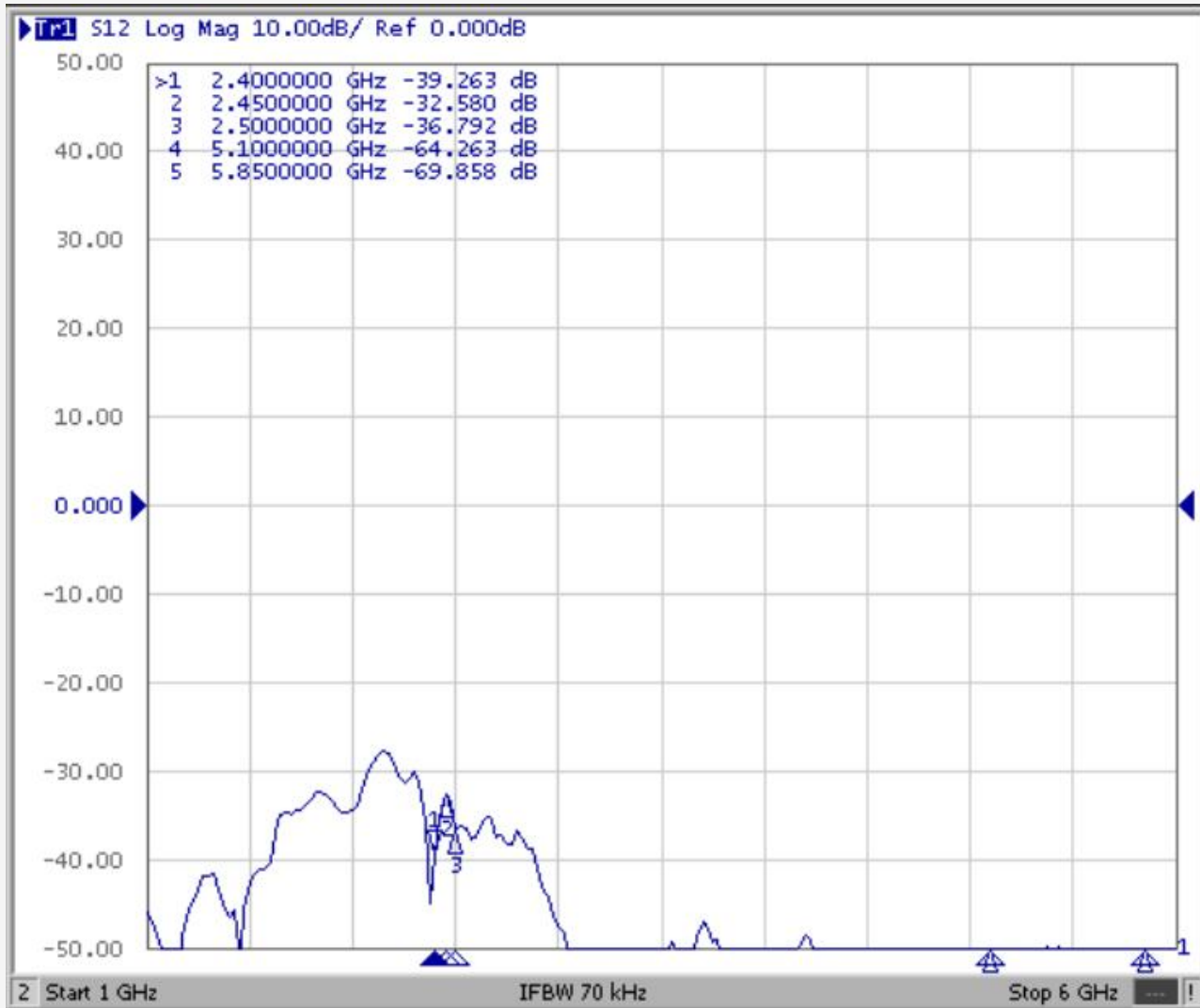
15. 隔离度

WiFi-1&WIFI-2



16. 隔离度

WiFi-2&BT



17.OTA有源数据

		TPR	TIS
802.11b 11M	1	19.65	-86.88
	6	16.54	-86.95
	11	15.24	-87.64
802.11g 54M	1	15.85	-75.63
	6	15.59	-75.84
	11	15.30	-75.91
802.11n MCS7	1	15.32	-71.98
	6	15.18	-71.91
	11	14.26	-71.85
802.11a 54M	36	9.58	-72.87
	149	8.14	-72.75
	161	8.54	-72.85
BT	0	8.32	-86.13
	36	8.32	-87.32
	78	8.29	-87.63



18.外场测试



测试时间: 2022/06/17
测试场地: 深圳市宝安区鹤洲豪庭附近
测试手机: Iphone 13 Pro
配网手机: 小米MIX
配网APP: JBL ONE
测试路由器: 华硕-RT-AC85P



WIFI	前	后	左	右
2.4G	200	200	200	200
5.8G	250	255	255	255



谢谢观看

