

项目报告

客户名称 Customer Name: 创维 Skyworth

项目名称 Project Name: HP47R

开发案号 Development Case No: B2511101520

版本号 Version: V1.1

结构工程师 Structural: 唐海林 Tang Hailin

射频工程师 RF: 胡冲 Hu Chong

频段 Frequency Band: 2.4-5.8GHz

制作日期 Creation Date: 20251114

修订日期 Revision Date	修订内容 Revision Content	修订者 Revised By	原版本 Original Version
202501114	初版 Initial Version	Hu Chong	/
20260415	中英文双语版本 Bilingual Version (Chinese & English)	Hu Chong	V1.1

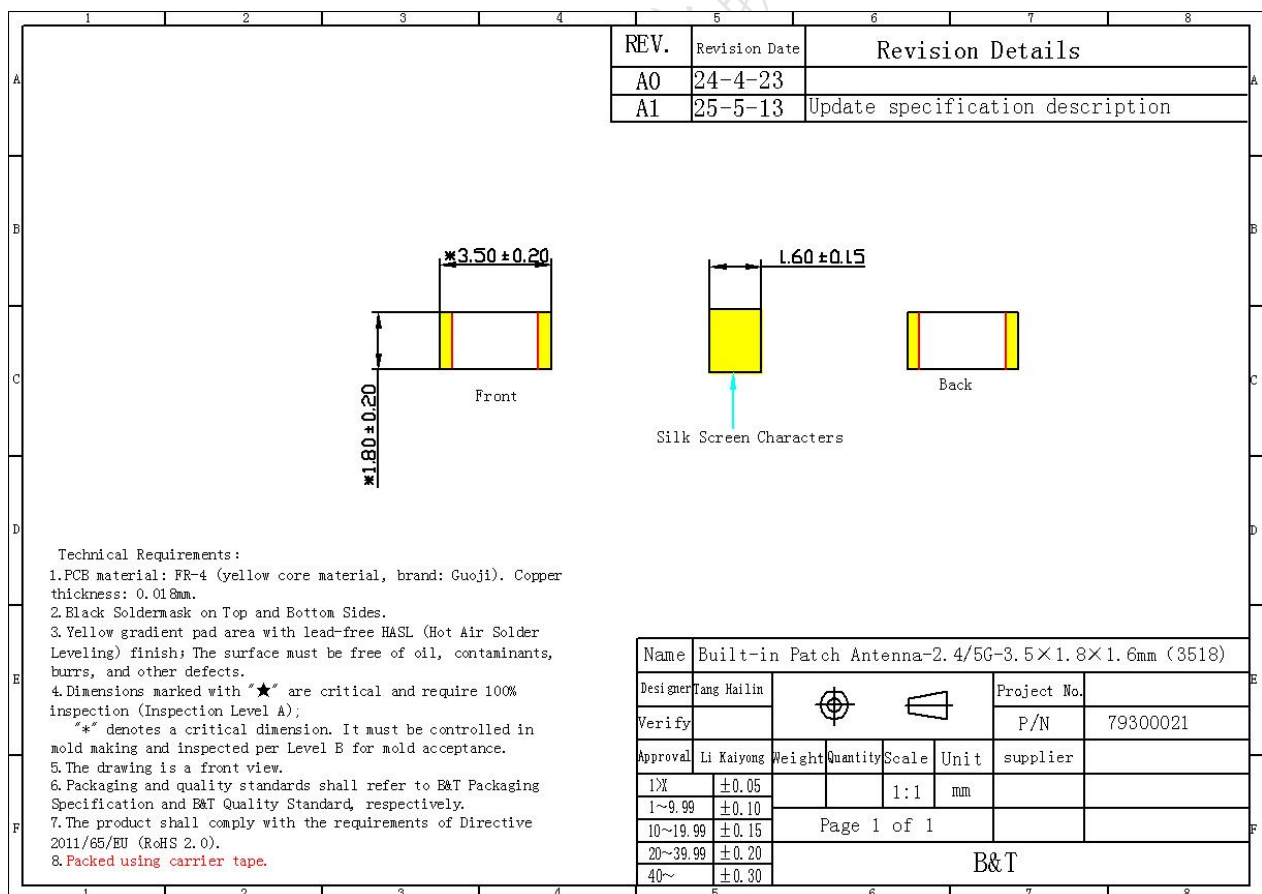
一、天线安装示意图 Antenna Information



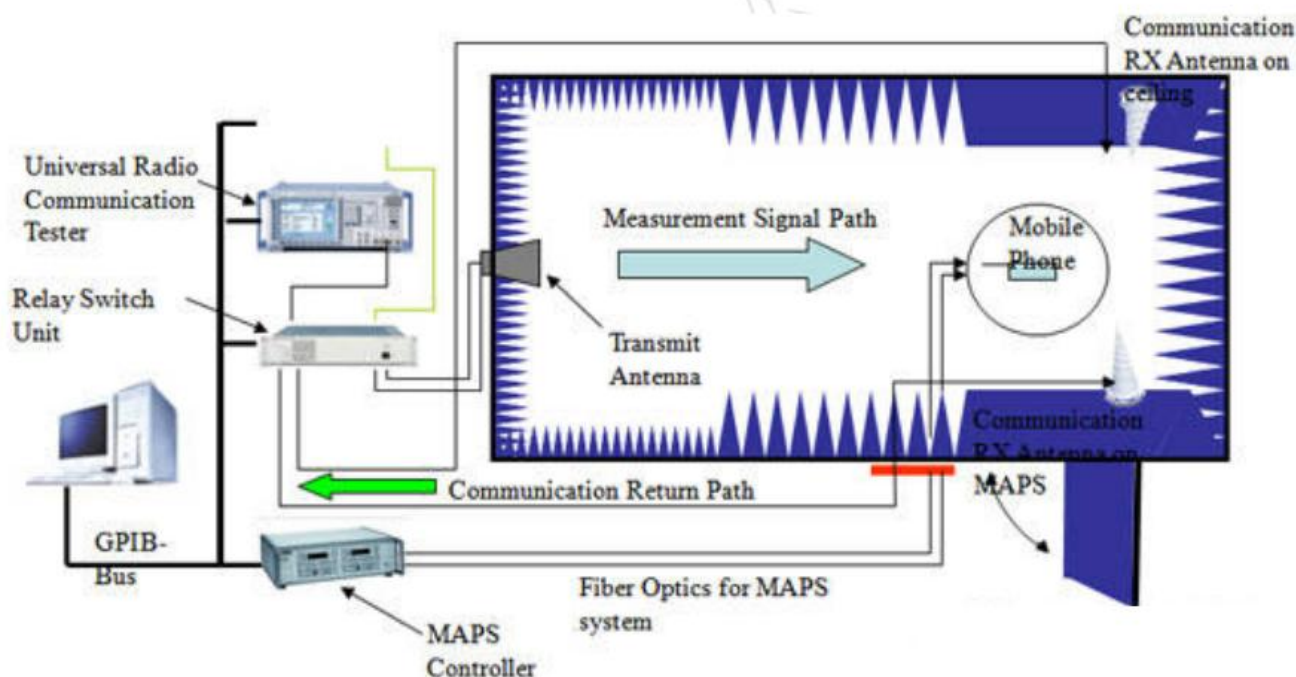
天线物料名称 Antenna Material Name: 内置贴片天线-2.4 / 5G-chip-3.5×1.8×1.6mm (3518)

天线制造商 Antenna Manufacturer: 四川博安通通信技术有限公司 Sichuan B&T Technology Co., Ltd.

厂商地址 Manufacturer Address: 四川省绵阳市经开区塘汛街道文武中路 218 号 8 幢 5 层 2、3 号 2nd and 3rd Units, 5th Floor, Building 8, No. 218 Wenwu Middle Road, Tangxun Subdistrict, Economic and Technological Development Zone, Mianyang City, Sichuan Province



二、微波暗室原理图 Microwave Anechoic Chamber Schematic

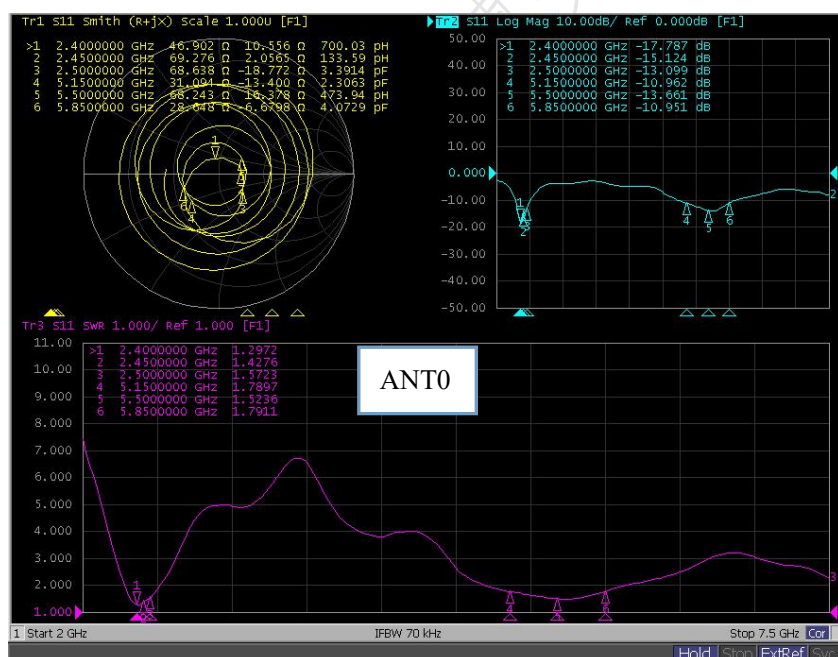


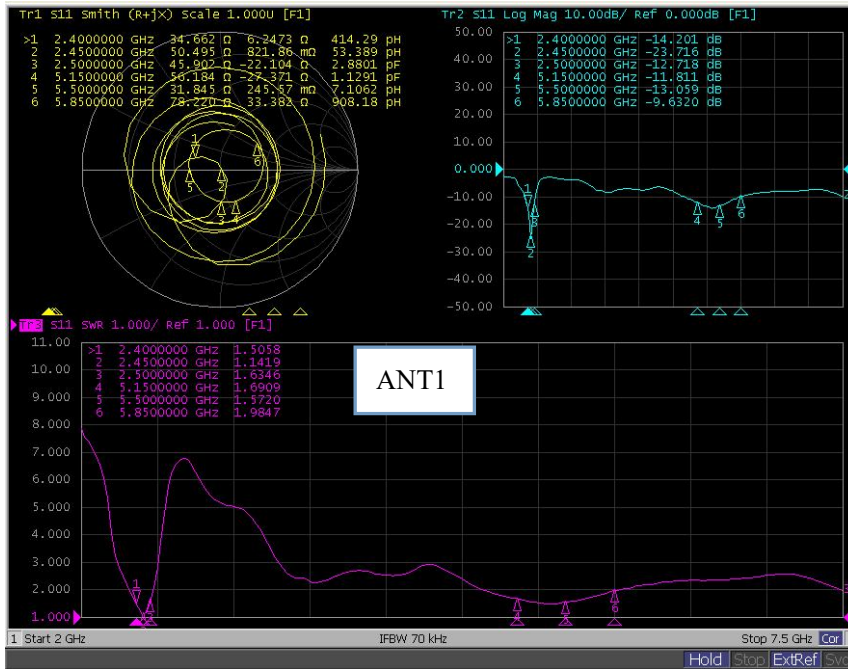
三、天线无源测试数据 Antenna Passive Test Data

(确认: ☒整机测试 ☐单天线测试)

(Confirmation: Whole Machine Test / Single Antenna Test)

➤ 天线 S 参数图 Antenna S-Parameter Diagram





➤ S 参数数据 S-Parameter Data

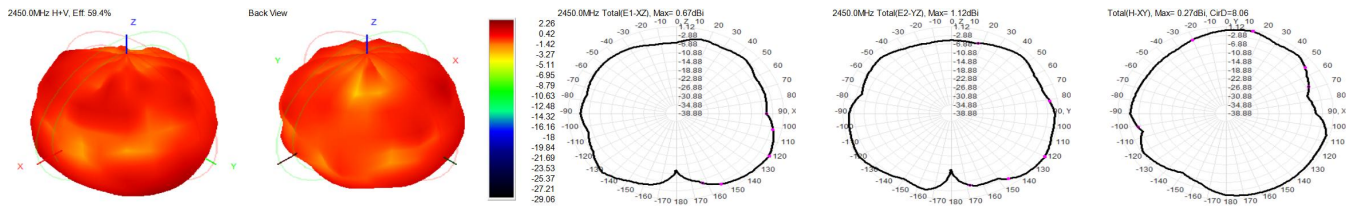
Freq/MHz		2400	2450	2500	5150	5500	5850
VSWR	ANT0	1.29	1.42	1.57	1.78	1.52	1.79
	ANT1	1.50	1.14	1.63	1.69	1.57	1.98

➤ 增益&辐射效率 Gain & Radiation Efficiency

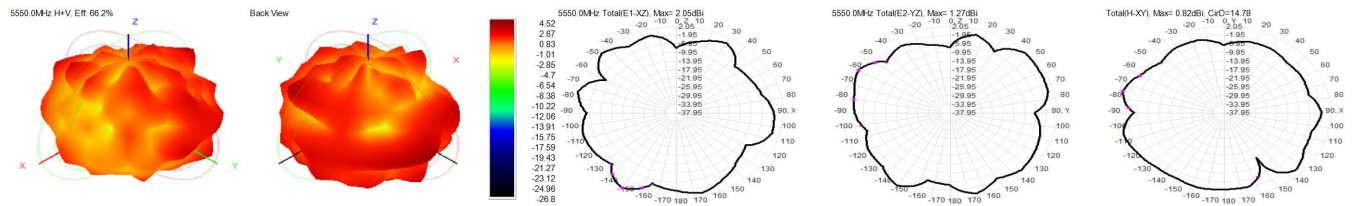
Frequency (MHz)	ANT0		ANT1	
	Gain (dBi)	Efficiency (%)	Gain (dBi)	Efficiency (%)
2400	1.45	51.73	1.78	51.01
2410	1.74	52.48	2.15	53.45
2420	1.79	53.09	2.58	53.47
2430	1.93	55.23	2.62	54.96
2440	2.54	55.99	2.66	57.91
2450	2.26	59.42	2.53	58.20
2460	2.29	55.48	2.17	57.63
2470	2.35	50.60	2.60	56.94
2480	2.24	50.80	2.52	53.30
2490	2.21	51.44	1.94	52.58
2500	1.57	48.85	1.30	51.74
5150	3.03	58.08	3.58	60.03
5250	4.11	61.44	3.87	58.64
5350	4.38	61.05	3.39	63.07
5450	4.20	67.72	3.24	59.63
5550	4.52	66.23	3.85	61.87
5650	4.31	63.26	3.22	52.36
5750	4.18	59.91	3.91	50.46
5850	3.84	55.34	3.85	51.96

天线方向图 Antenna Radiation Pattern

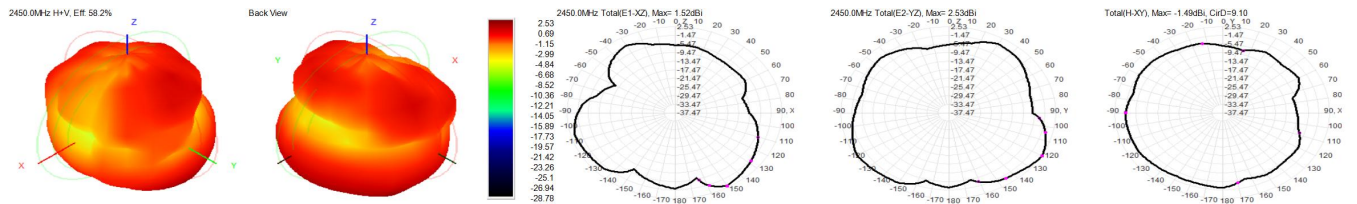
ANT0 2450MHz



ANT0 5550MHz



ANT1 2450MHz



ANT1 5550MHz

