

Sample Recognition Letter

PROJECT NAME : X7

BAISHUI LAI	ME	RF	QC
Signature	CHENLONG YANG	WANGPING	LIUJIAD
date	20240124	20240124	20240124
CUSTOMER	ME	MD	QC
Signature			
date			

Project X7		write: Wang ping	Name : X7 Sample Recognition Letter
Date: 2024/01/24			
Edition		Examine and rify: Qinbilin	
A			
Manufacturer : Shenzhen BaiShuiLai Intelligent Technology Co. , Ltd. Address : 307.309 ,D Building minle science and Technology Park Meiban Road Longhua district Shenzhen,China			

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 3.1 standing wave(VSWR) and Reccho reflection(Return Loss).....

 3.2 TRP/TIS make use of Agilent8960(8820C) test in the ETS 5m×4m×4m 3D Chamber

 3.3(Matching Circuit Description)

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1Summary

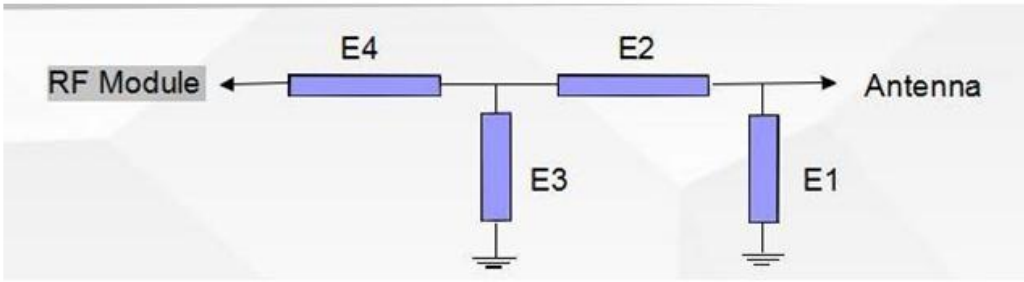
This report is mainly used to describe the《Baishuilai Electronics》X7 Sample antenna recognition letter.

2 Name and type of antenna

MATERIALS	NAME	TYPE
TDDLTE+FDDLTE ANTENNA	X7-MAIN-V1.0	PIFA
DIVERSITY ANTENNA	X7-DIV-V1.0	PIFA
WIFI/BT ANTENNA	X7-WIFI-V1.0	PIFA

3Debug settings

- 3.1standing wave(VSWR)and echo reflection(Return Loss)
- VSWR is using the HP 8753E connected to the terminal assembly to test, state for free space.
- 3.2 TRP/TRS Tested in the ETS 5m× 4 m× 3 m 3D Chamber using Agilent8960 (8820 C) 。
- 3.3Matching Circuit Description Match have no change



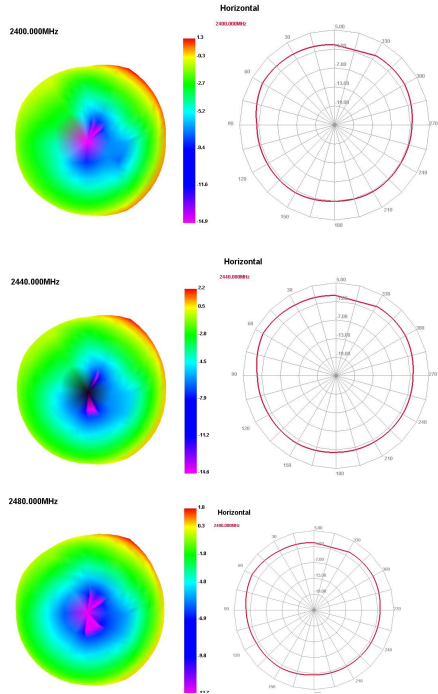
2.4G bt TDD LTE FDD LTE		Element	Value	
		E1(0201)		Press the motherboard original matching circuit is not modified
		E2(0201)		
		E3(0201)		
		E4(0201)		

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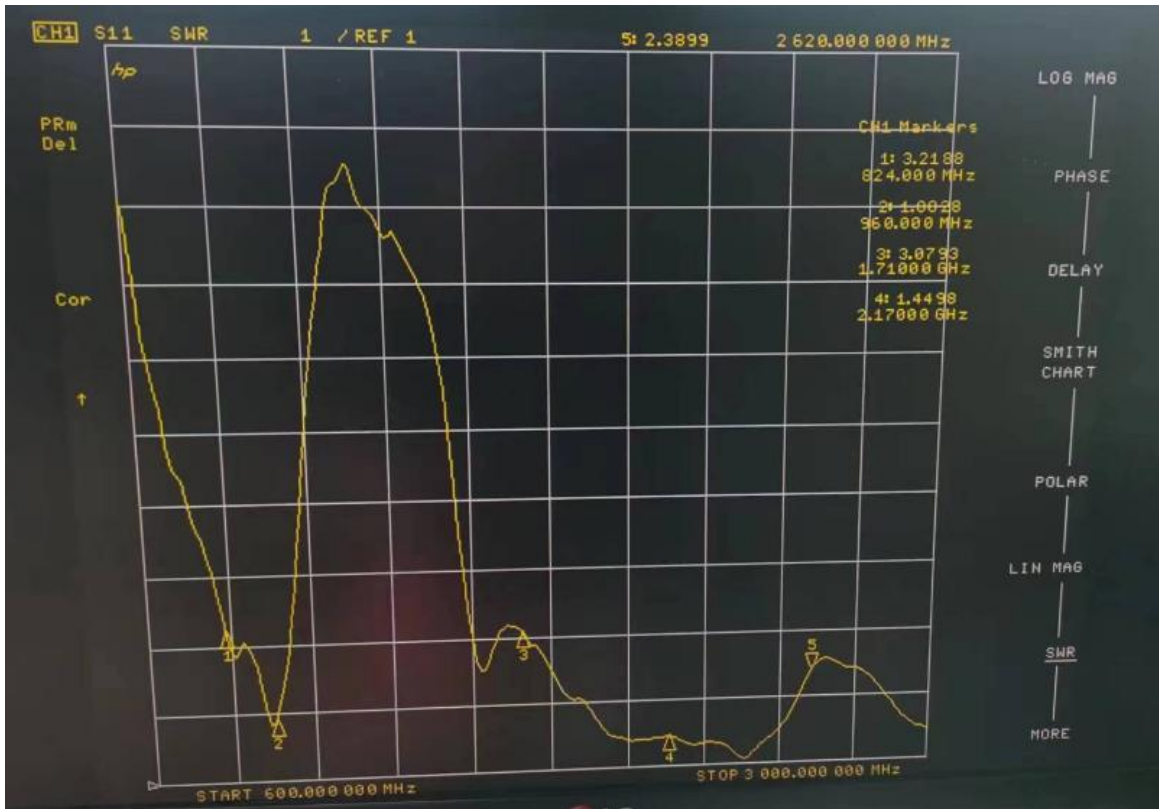
4 Effective Radiated Power And Isotopic Sensitivity Summation



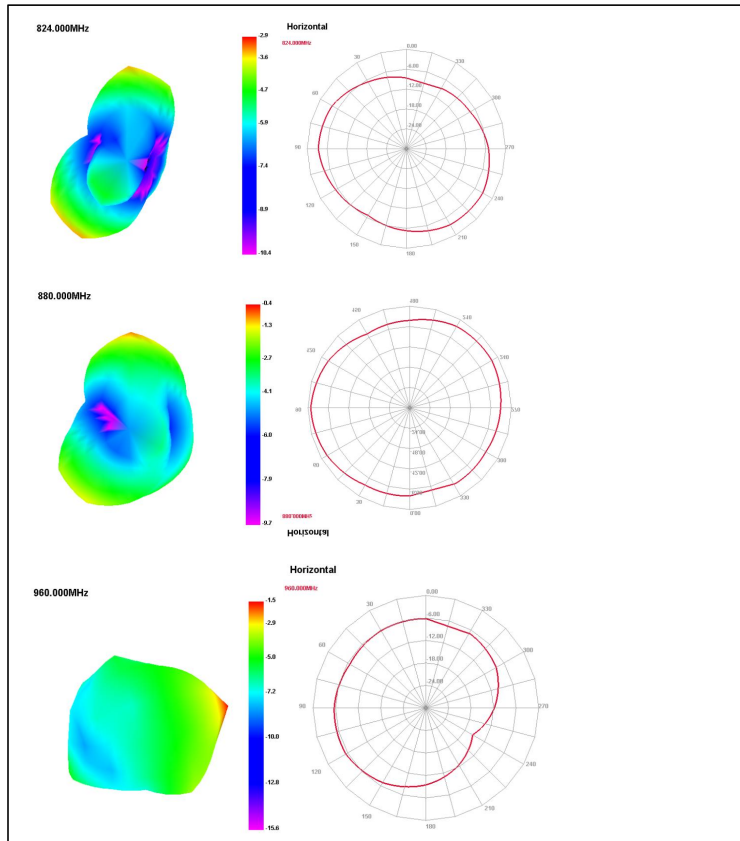
Channel	Gain(dBi)	Efficiency (%)
2400	1.30	37.7
2410	1.42	39.2
2420	1.73	42.9
2430	1.85	43.2
2440	2.21	46.7
2450	2.22	46.8
2460	2.13	45.6
2470	1.94	43.1
2480	1.23	37.5



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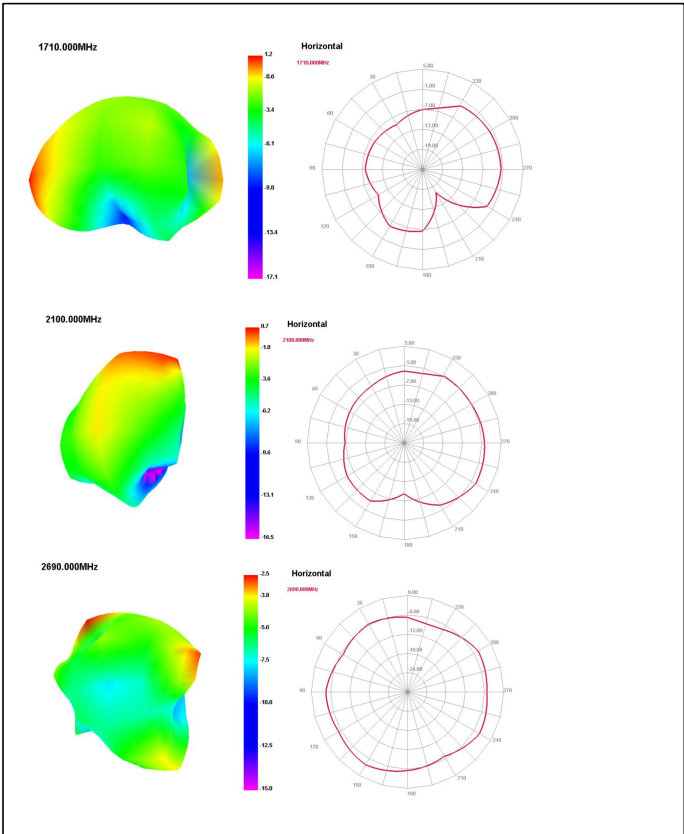


Channel	Gain(dBi)	Efficiency (%)
820	-2.85	24.9
840	-1.41	30.7
860	-0.71	37.6
880	-0.35	47.1
900	-0.06	52.5
920	0.07	42.4
940	0.55	32.0
960	-1.5	23.9
1700	1.22	43.9
1750	0.94	44.1
1800	1.16	45.3
1850	1.38	51.0
1900	2.26	39.6
1950	2.7	39.8
2000	2.26	35.5
2050	1.14	32.3
2100	0.67	35.3



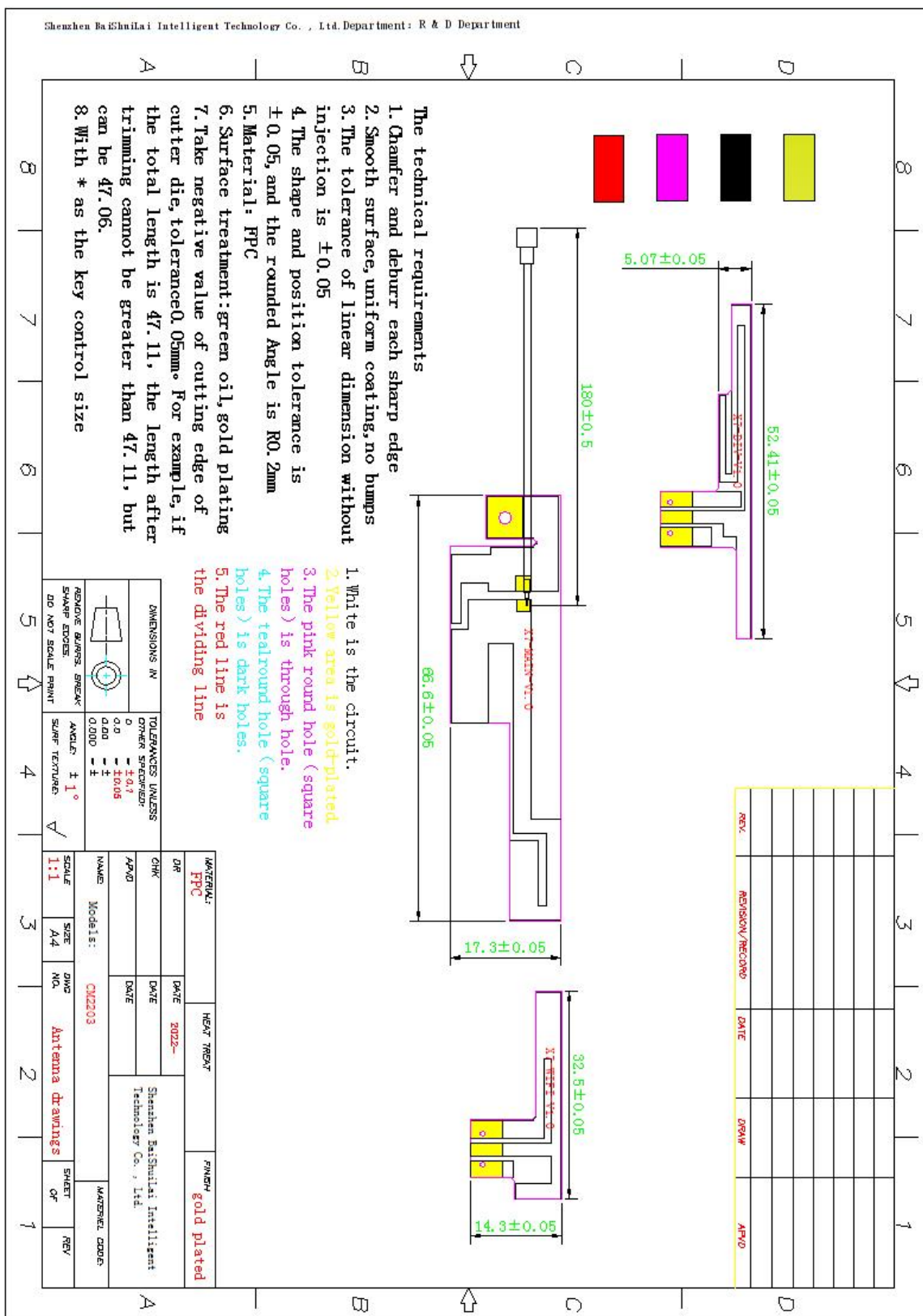
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Channel	Gain(dBi)	Efficiency (%)
2150	-0.94	35.3
2200	-1.29	24.1
2250	-0.82	25.0
2300	-0.86	24.7
2350	-0.32	29.4
2400	-0.36	30.8
2450	-0.24	32.1
2500	-1.28	28.8
2550	-1.75	27.5
2600	-1.61	26.9
2650	-2.83	22.5
2700	-2.51	24.1



Frequency band	Channel	TRP(dBm)	TIS(dBm)	Frequency band	Channel	TRP(dBm)	TIS(dBm)
LTE B38 20M	Low	17.7		LTE B39 20M	Low	19.2	
	Mid	17.5			Mid	18.5	
	Hig	17.3	-90.5		Hig	18.2	-91.3
LTE B40 20M	Low	17.6		LTE B41 20M	Low	17.2	
	Mid	17.4			Mid	17.1	
	Hig	18.5	-92.1		Hig	16.6	-90.2
LTE B1 10M	Low	17.1		LTE B3 10M	Low	18.2	
	Mid	17.5			Mid	18.2	
	Hig	17.4	-90.8		Hig	17.8	-91.4
LTE B5 10M	Low	16.8		LTE B7 10M	Low	17.9	
	Mid	17.5			Mid	18.2	
	Hig	18.2	-88.6		Hig	17.5	-91.2
LTE B8 10M	Low	18.1		LTE B20 10M	Low	16.3	
	Mid	17.4			Mid	16.5	
	Hig	16.7	-87.5		Hig	17.1	-89.7

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