

客户承认书

SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT 客户/机型: _____

CUSTOMER P.N./ 客户物料号: _____

PRODUCT NAME./ 物料名称: LTE Antenna

MODEL NO./ 物料型号: 29Z008A

SPECIFICATION/ 物料规格: _____

VERSION 版本	DATE 日期	REVISION DESCRIPTION 修订说明
T:A	2025-11-17	新增/newly added

SUPPLIER AUTHORIZED SIGNATURE/供应商承认签核		
制作/PREPARED	审核/CHECKED	批准/APPROVED
肖文珍/JENNY		

CUSTOMER AUTHORIZED SIGNATURE/客户承认签核			
项目		质量	

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目录 content

目录/content	2
1. 名词解释/Noun explanation	3
2. 测试设备/Test equipment	4
3. 适用频段/Working frequency band	4
4. 基本测试项目/Test project	4
4.1 驻波比图/VSWR plot	4
4.2 史密斯阻抗图/Simth plot	6
4.3 辐射方向图/Radiation pattern	4
4.4 增益和效率/Gain & Efficiency	4
4.5 TRP&TIS测试	4
5. 测试指标和数据图表/Antenna parameter	5
5.1 驻波比/VSWR	5
5.1.1 驻波比图/VSWR plot	5
5.1.2 驻波比数据/VSWR data	5
5.2 史密斯阻抗圆图/Simth plot	6
5.3 辐射方向图/Radiation pattern	7
5.3.1 H-plane	7
5.3.2 E-plane	8
5.4 增益和效率/UGain & Efficiency	10
5.5 TRP&TIS	10
6. 环境处理建议/Environmental treatment suggestions	11
7. 阻抗匹配要求/Impedance matching	11

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8_天线外形图/Antenna plan	11
8.1.天线尺寸图/ Antenna dimensional drawing	12
8.2 馈线尺寸图/Coaxical cable length drawing	12
8.3 射频端尺寸图/Connector drawing	12
9_天线安装指导/Antenna installation guide	13
9.1.天线安装说明/Antenna installation instructions	13
9.2 馈线走线说明/Coaxical routing	13
10_ 其他/Other	13

1 名词解释/Noun explanation

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
TRP	Total Radiated Power
TIS	Total Isotropic Sensitivity
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access

2 测试设备/Test equipment

可根据实际情况自行增减

矢量网络分析仪/ network analyzer

综合测试仪/ Agilent8960

GTS 暗室/ GTS chamber

3 适用频段/Working frequency band

将适用的频段用其他颜色标出/ The yellow Identification is the using band

制式/Standard	上行	下行
GSM850	824MHz~849MHz	869MHz~894MHz
GSM900	890MHz~915MHz	935MHz~960MHz
DCS1800	1710MHz~1785MHz	1805MHz~1880MHz
PCS1900	1850MHz~1910MHz	1930MHz~1990MHz
CDMA800	825MHz~835MHz	870MHz~880 MHz
CDMA2000	824MHz ~849MHz	869MHz ~894MHz
WCDMA2100	1920MHz~1980MHz	2110MHz~2170MHz
WIFI (2. 4G)	2412MHz~2483MHz	
TD-SCDMA2100	2010MHz~2025MHz	2010MHz~2025MHz
TD-SCDMA B39	1880 MHz-1920 MHz	1880 MHz-1920 MHz
LTE	820MHz ~2690MHz	

4 基本测试项目/Test project

4.1 驻波比图/VSWR plot

4.2 史密斯阻抗图/Simth plot

4.3 辐射方向图/Radiation pattern

4.4 增益和效率/Gain & Efficiency

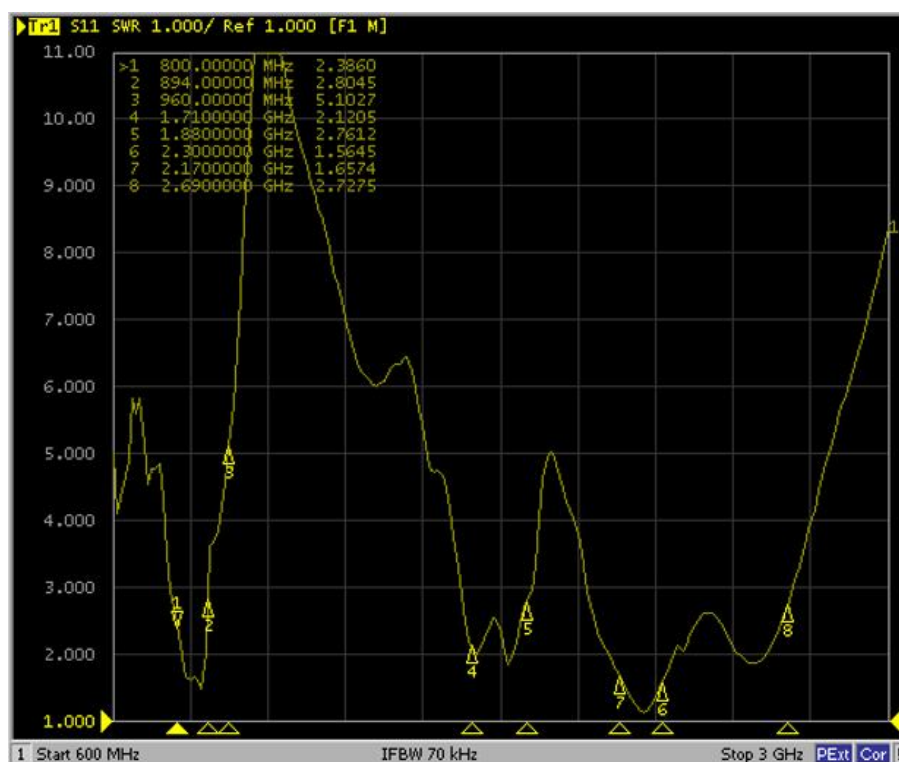
4.5 TRP&TIS

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5 测试指标和数据图表/Antenna parameter

5.1 驻波比/VSWR

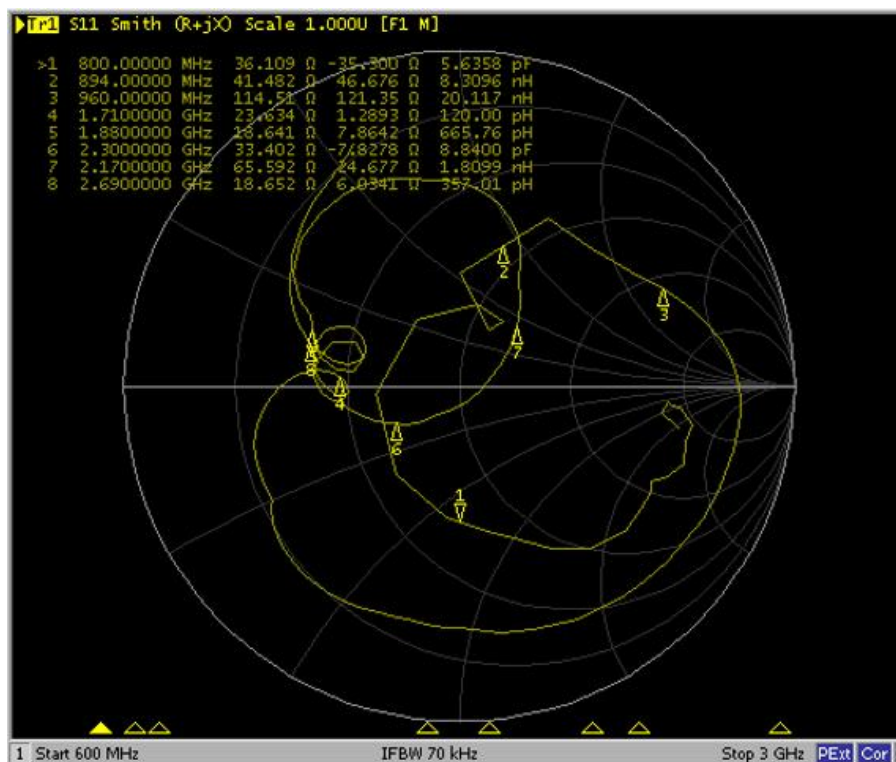
5.1.1 驻波比图/VSWR plot



5.1.2 驻波比数据/VSWR data

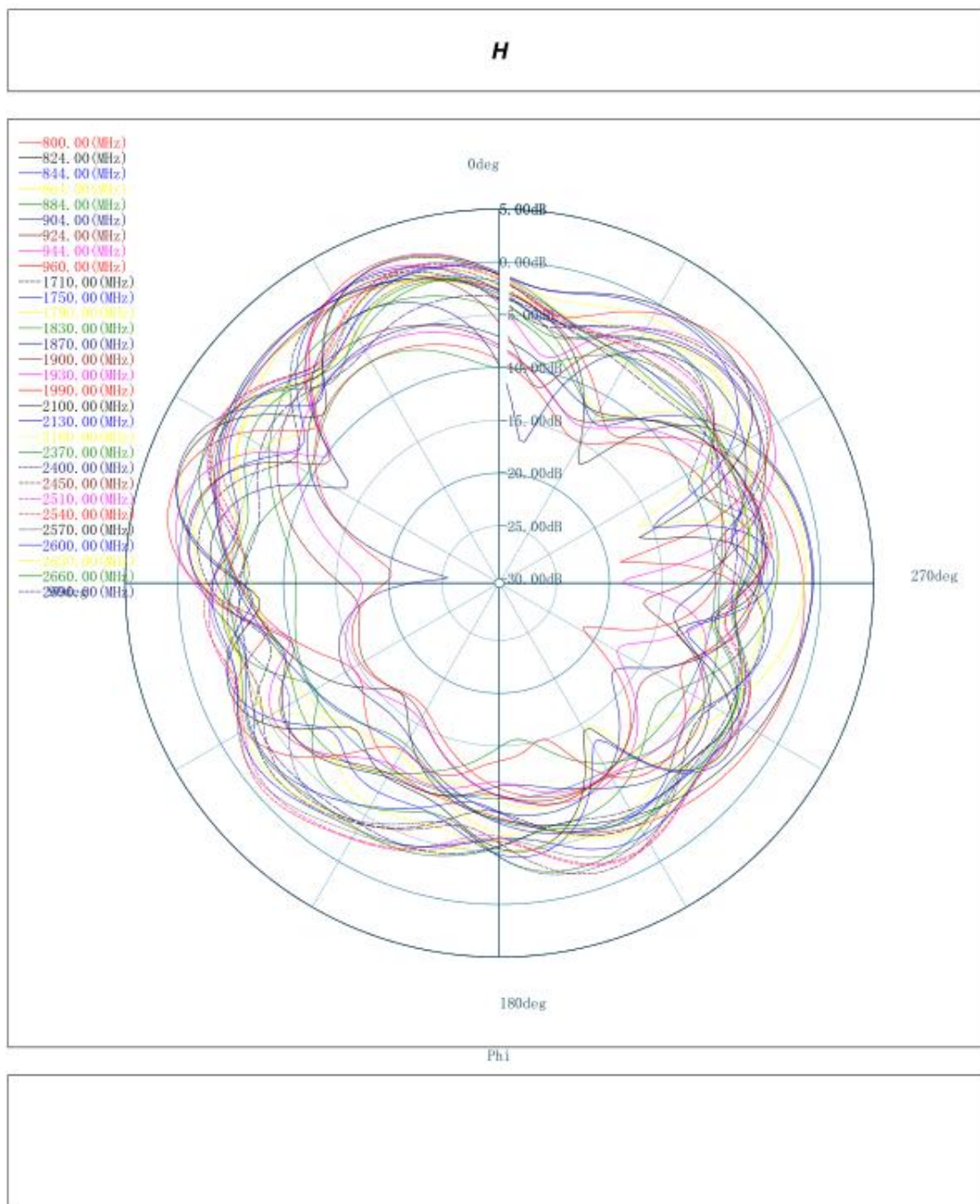
Freq/MHz	824	960	1710	1880	2170	2300	2690
VSWR	2.3	2.8	2.1	2.7	1.6	1.5	2.7

5.2 史密斯阻抗圆图/Smith impedance circle diagram

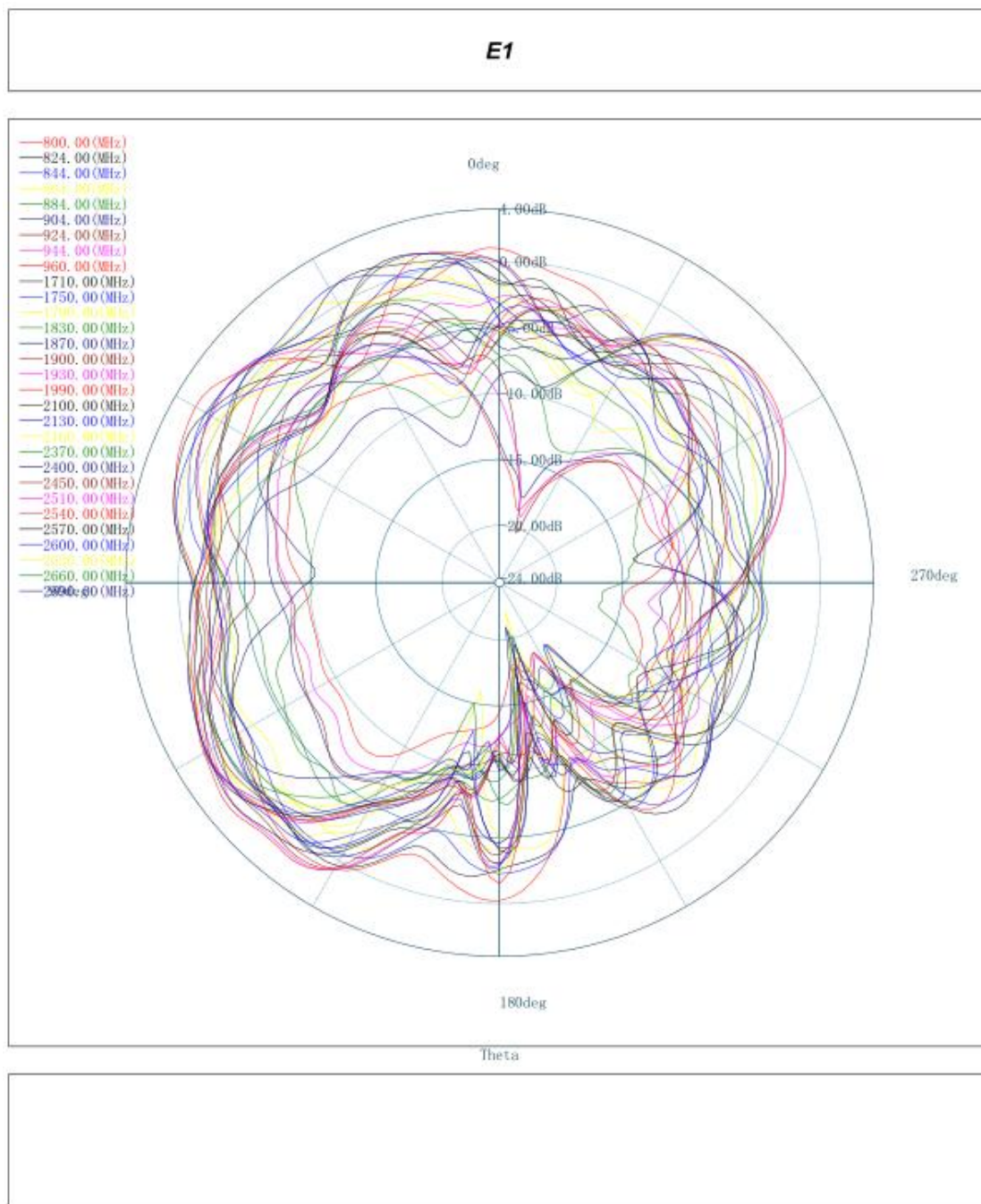


5.3 辐射方向图/Radiation pattern

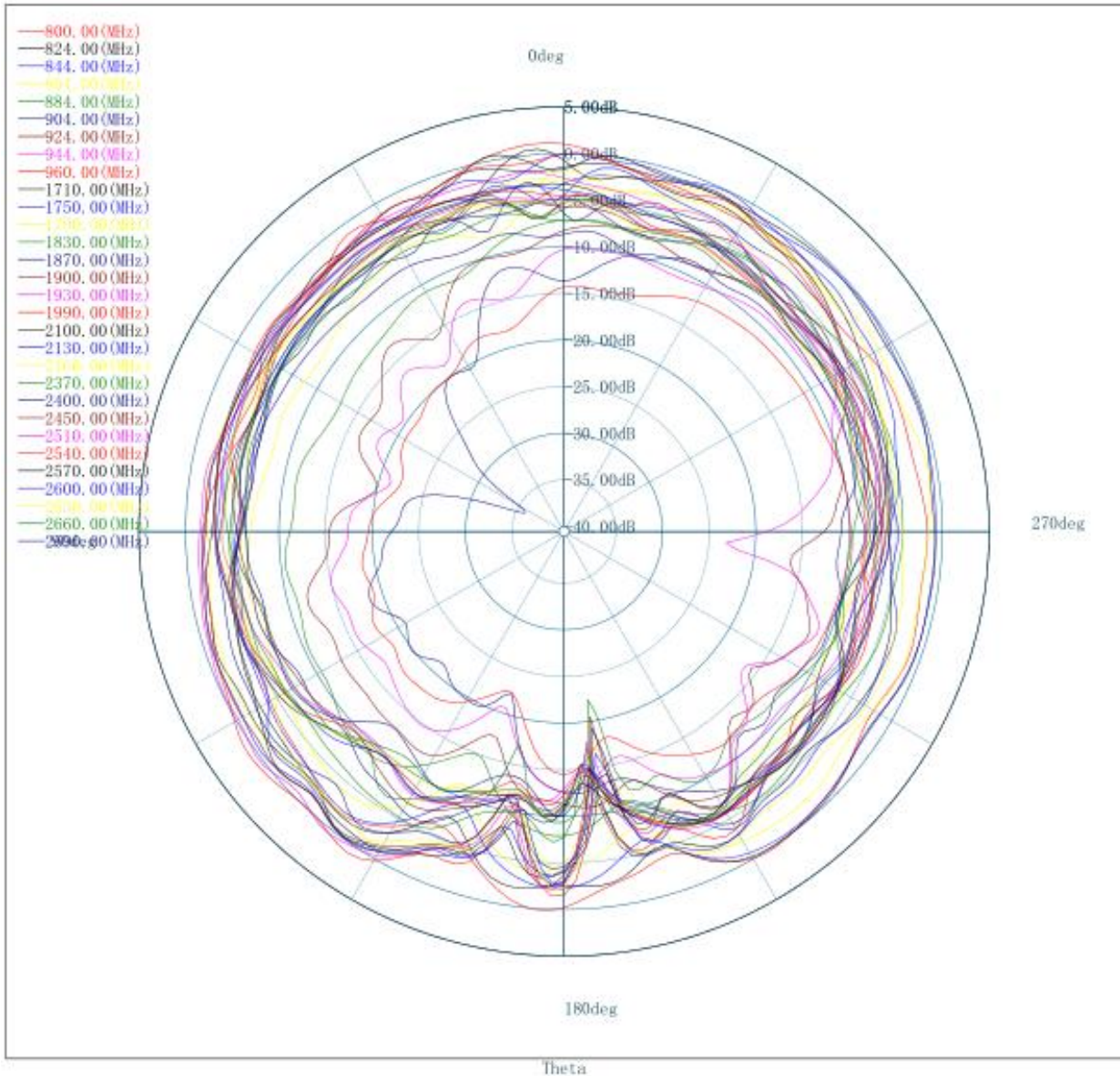
5.3.1 H-plane



5.3.2 E-plane



E2



5.4 增益和效率/Gain & Efficiency

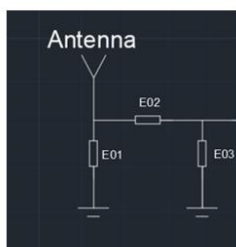
频率	效率	增益		频率	效率	增益
800000000	44%	1.699499826		1930000000	47%	2.618085256
824000000	48%	1.5883579		1990000000	56%	2.904844855
844000000	43%	1.47344381		2100000000	54%	2.598851789
864000000	42%	0.82078604		2130000000	50%	2.259282058
884000000	33%	-1.687731054		2160000000	48%	2.100575781
904000000	23%	-4.382050469		2370000000	37%	0.322590509
924000000	25%	-2.862493445		2400000000	37%	0.563688108
944000000	21%	-4.11584098		2450000000	40%	1.109406192
960000000	18%	-5.722714462		2510000000	46%	1.715697642
1710000000	51%	1.727018329		2540000000	46%	1.826440973
1750000000	52%	1.99526021		2570000000	43%	1.846293024
1790000000	39%	0.11475046		2600000000	39%	1.636315223
1830000000	18%	-3.335771287		2630000000	35%	1.155693266
1870000000	31%	1.262318973		2660000000	30%	0.26135788
1900000000	41%	2.226817106		2690000000	24%	-1.193821872

4G								
	channel	TRP	TIS			channel	TRP	TIS
FDD-B1	50	18.6			FDD-B8	3500	18.58	
	300	18.93				3625	17.54	
	550	18.35	-91.98			3750	17.22	-90.77
FDD-B3	1250	21.01			FDD-B20	6200	18.9	
	1575	19.44				6300	19.24	
	1900	18.5	-91.43			6400	17.58	-92.54
FDD-B5	2450	18.96			FDD-B28	9260	19.19	
	2525	19.13				9435	18.95	
	2600	18.52	-92.89			9610	17.59	-91.41
FDD-B7	2800	18.36						
	3100	17.57						
	3400	17.29	-90.32					

6 环境处理建议/Environmental treatment suggestions

The environment doesn't need to be treated

7 阻抗匹配要求/Impedance matching



Element	Value
E01	/
E02	1.8nh
E03	/

第 12 页 共 13 页

9 天线安装指导/Antenna installation guide

9.1 天线安装及馈线走线说明/Antenna installation instructions

10 其他/Other