



ANTENNA TEST RESULT

Project Name	Memor11	Platform	MT8768
ANT Version	V1.0	HW Version	V01
Software Version	1.00.01.20220803	ME Version	T0
Test Date	2022.08.31	Engineer	wuqingjie
Temperature	25°C	Humidity	50%
Conclusion:	可以满足认证需求		

Test Equipment&Environment

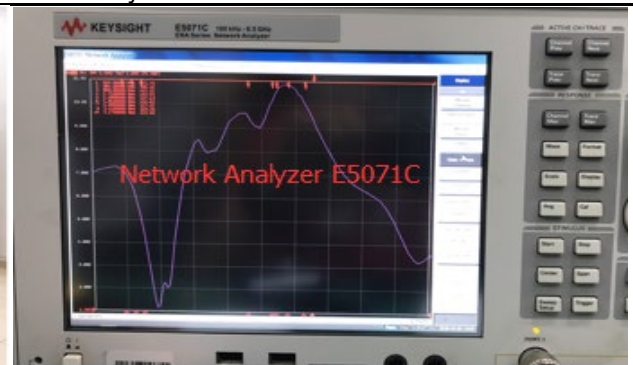
Equipment&Environment:

3D Microwave chamber (7M*4M*4M)

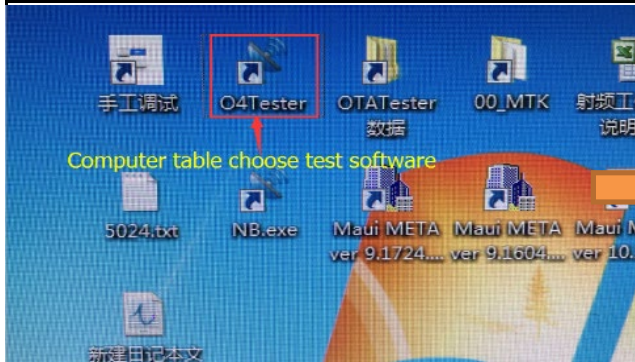
ROHDE&SCHWARZ CMW500

Agilent 8960 SERIES 10 E5515C

KEYSIGHT E5071C Network Analyzer

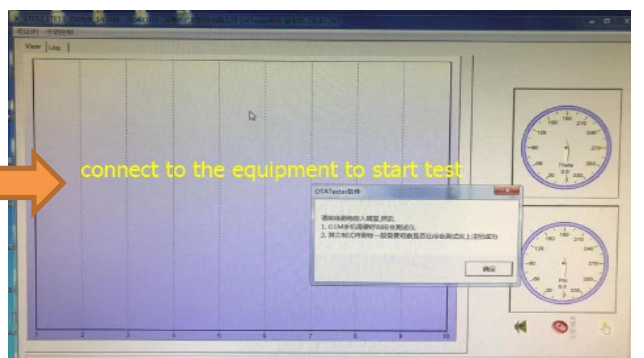
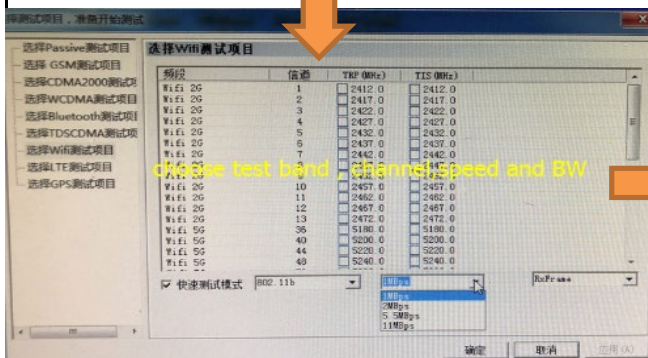
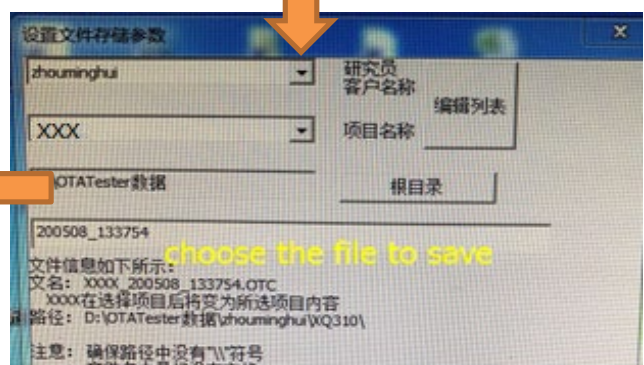
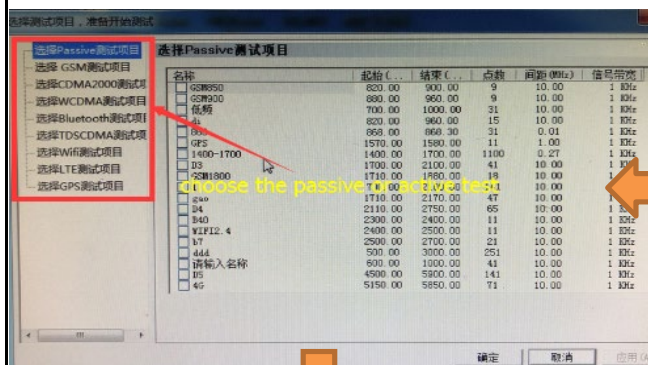


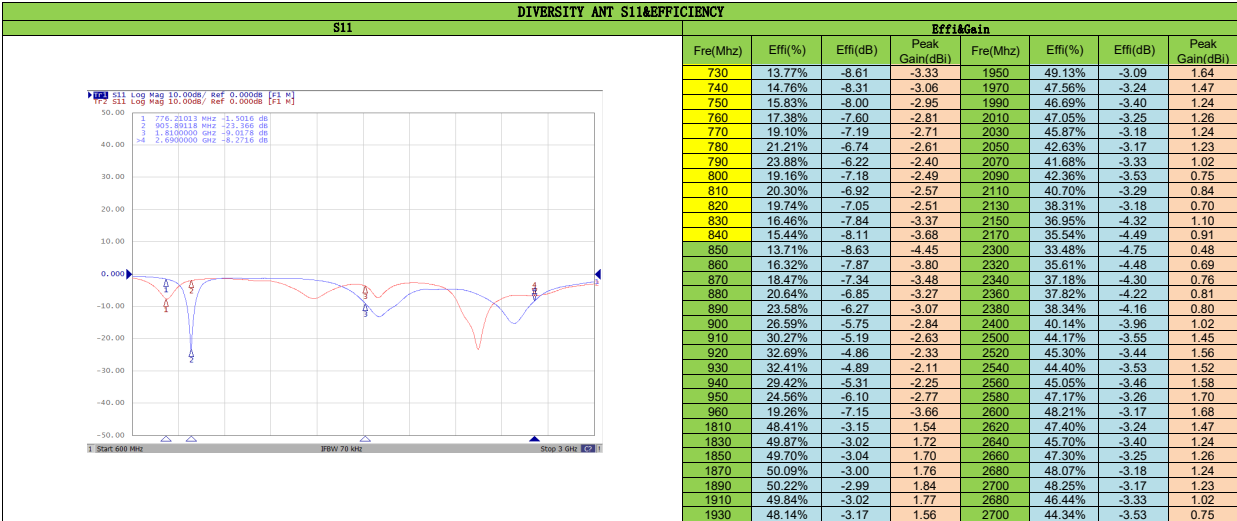
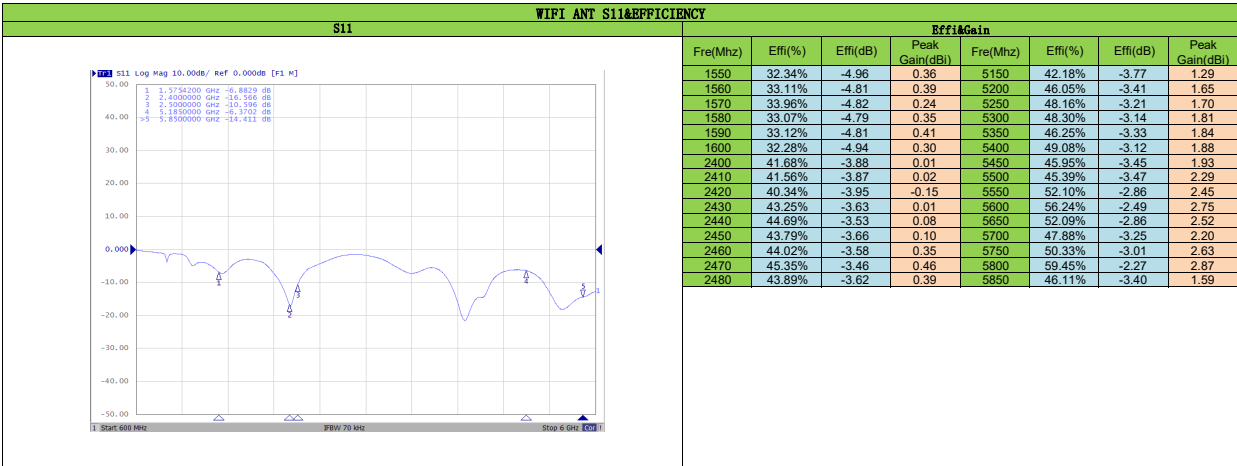
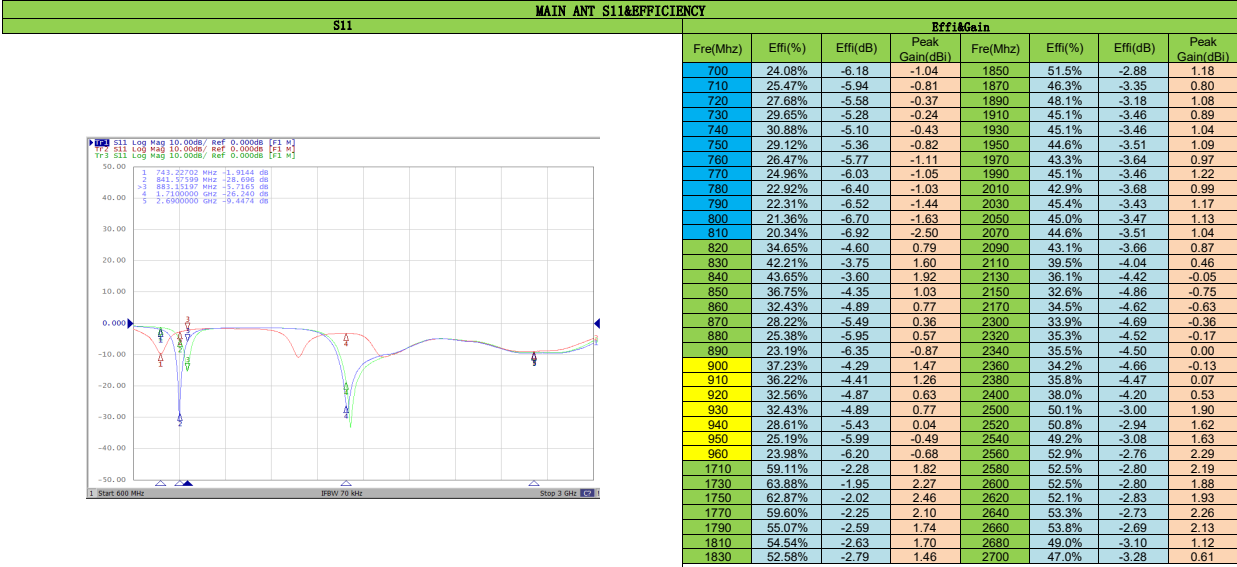
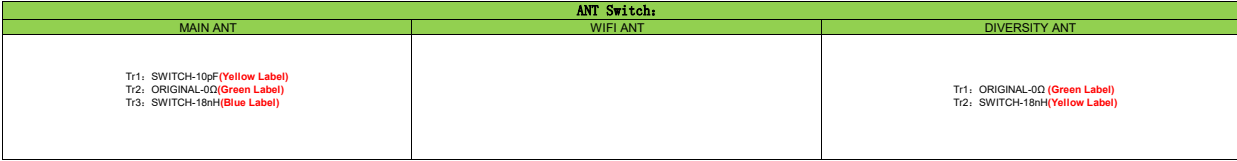
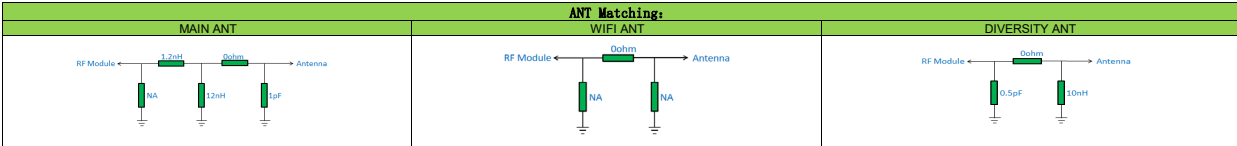
Test Step



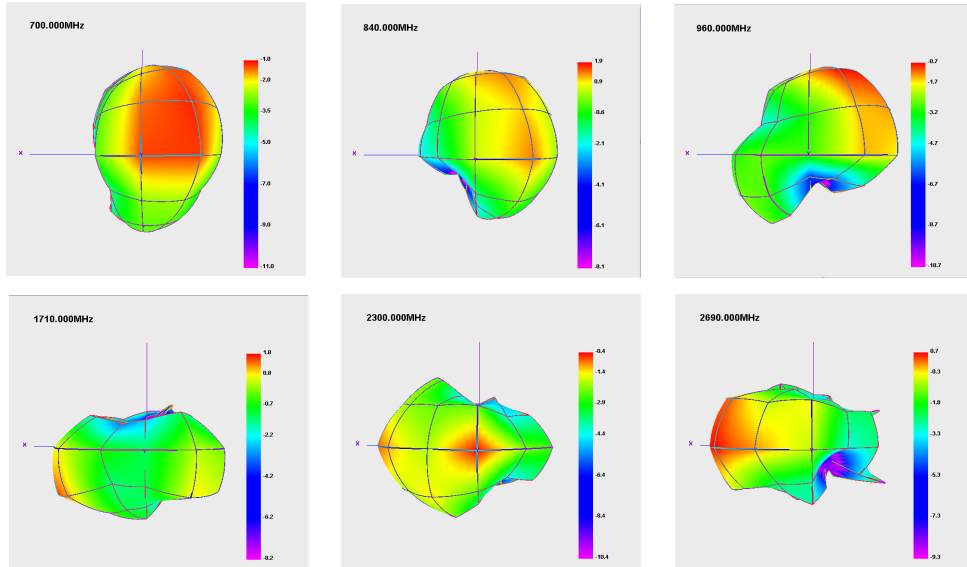
查看测试结果
开始一个3D测试
开始一个2D测试
开始特定点测试
平坦度测试
金机/偶极子校准
喇叭天线校准无源
偶极子校准有源
查看/更改 配置
查看历史测试记录

choose test mode
(3D OR 2D)

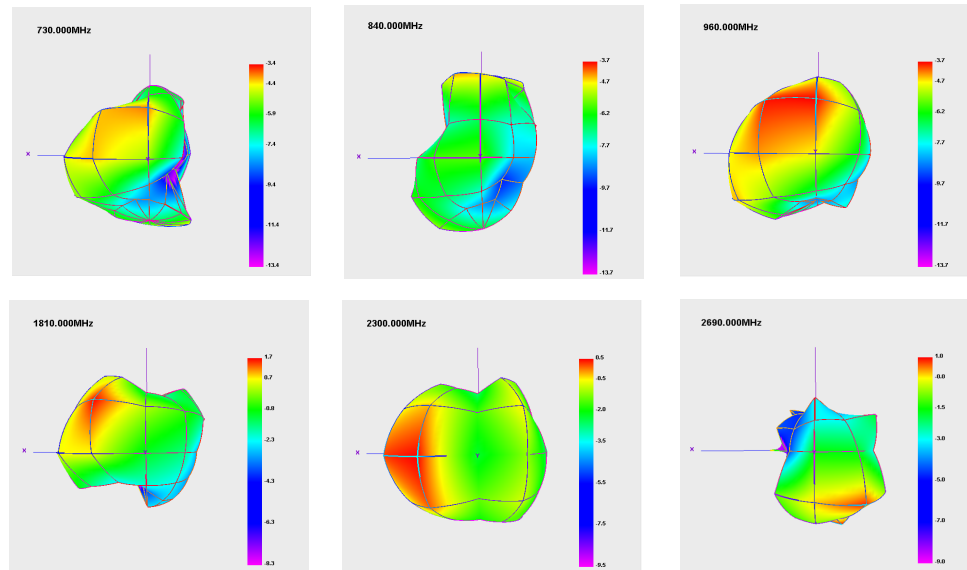




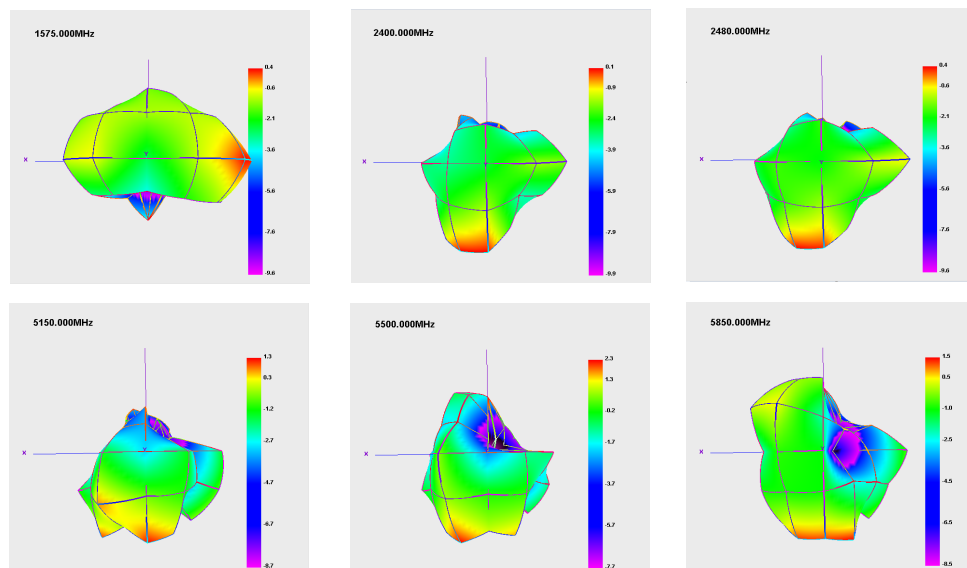
MAIN ANT 3D Pattern



DIVERSITY ANT 3D Pattern



WIFI ANT 3D Pattern



MAIN ANT TWP (dbm)									
Band	Channel	Freq (MHz)	RF (MHz)		FS	ATP	SPFC	(min) SPEC	
GSM850	128	924.2	924.2		28.42				
	190	935.6	935.6		28.32	28.27	27	26	
	251	946.8	946.8		28.08				
GSM900	975	960.9	960.9		28.13	27.82	23		
	124	967.1	967.1		28.39				
	124	967.1	967.1		28.95				
DCS1800	212	1733.2	1733.2		28.73				
	298	1747.4	1747.4		28.97	28.79	21		
	885	1754.4	1754.4		28.68				
PCS1900	212	1920.2	1920.2		28.76	27.21	25.6	24.5	
	881	1938.8	1938.8		27.53				
	910	1949.8	1949.8		27.34				
WCDMA-B1	9912	1920.4	1920.4		28.18				
	9728	1926.4	1926.4		28.70	20.54	15		
	9988	1927.4	1927.4		28.73				
WCDMA-B2	9988	1926.4	1926.4		28.97				
	9990	1930.4	1930.4		28.36	20.61	19.9	18	
	9998	1937.4	1937.4		28.81				
WCDMA-B4	1312	1712.4	1712.4		28.14	20.59	20.05	18	
	1312	1712.4	1712.4		28.73				
	1312	1712.4	1712.4		28.91				
WCDMA-B5	4182	846.6	846.6		19.16	18.39	18	17	
	4185	847.6	847.6		17.60				
	4253	848.6	848.6		18.40				
WCDMA-B8	2112	864.4	864.4		18.13	18.16	13		
	2128	864.4	864.4		18.16				
	2883	865.6	865.6		18.18				
FDD LTE-B2	18900	1880.0	1880.0		20.91	20.78	18.9	17	
	18900	1880.0	1880.0		20.76				
	18900	1880.0	1880.0		20.87				
FDD LTE-B4	20100	1742.5	1742.5		20.09	20.08	19.05	17	
	20100	1742.5	1742.5		20.09				
	20100	1742.5	1742.5		20.09				
FDD LTE-B5	20400	1804.0	1804.0		19.18	19.40	17.95	17	
	20400	1804.0	1804.0		19.65				
	20400	1804.0	1804.0		19.37				
FDD LTE-B7	20400	1804.0	1804.0		20.66				
	21100	1856.0	1856.0		20.38	20.16	13.5		
	21100	1856.0	1856.0		19.44				
FDD LTE-B12	21100	1856.0	1856.0		17.95	17.35	16.5	15	
	21100	1856.0	1856.0		17.22				
	21100	1856.0	1856.0		17.63				
FDD LTE-B13	21200	1792.0	1792.0		17.40	17.40	17	16	
	21200	1792.0	1792.0		17.40				
	21200	1792.0	1792.0		17.40				
FDD LTE-B17	21700	1740.0	1740.0		18.04	18.06	18.5	15	
	21700	1740.0	1740.0		18.24				
	21700	1740.0	1740.0		17.91				
FDD LTE-B25	22900	1854.0	1854.0		19.97	18.99	14		
	22900	1854.0	1854.0		19.41				
	22900	1854.0	1854.0		19.58				
FDD LTE-B26	22900	1854.0	1854.0		16.62	17.55	14		
	22900	1854.0	1854.0		17.50				
	22900	1854.0	1854.0		18.54				
FDD LTE-B28	22900	1854.0	1854.0		19.54	17.97	16.5	15	
	22900	1854.0	1854.0		17.66				
	22900	1854.0	1854.0		17.70				

MAIN+DIVERSITY ANT TIS (dbm)									
Band	Channel	Freq (MHz)	RF (MHz)	FS	ATP	SPFC	(min) SPEC		
GSM850	128	924.2	924.2	-104.70					
	190	935.6	935.6	-104.68	-104.68	-102.5	-101.5		
	251	946.8	946.8	-103.62					
GSM900	975	960.9	960.9	-102.77					
	124	967.1	967.1	-101.49	-101.91	-98.5			
	124	967.1	967.1	-101.48					
DCS1800	212	1733.2	1733.2	-109.25					
	298	1747.4	1747.4	-107.23	-106.36	-98			
	885	1754.4	1754.4	-105.80					
PCS1900	212	1920.2	1920.2	-109.68					
	881	1938.8	1938.8	-107.64	-107.24	-103	-101.5		
	910	1949.8	1949.8	-107.40					
WCDMA-B1	9912	1920.4	1920.4	-110.84					
	9728	1926.4	1926.4	-110.19	-110.75	-99			
	9988	1927.4	1927.4	-111.22					
WCDMA-B2	9988	1926.4	1926.4	-108.50					
	9990	1930.4	1930.4	-109.49	-109.08	-104.4	-102		
	9998	1937.4	1937.4	-109.25					
WCDMA-B4	1312	1712.4	1712.4	-110.95					
	1312	1712.4	1712.4	-110.96	-110.38	-105.5	-103		
	1312	1712.4	1712.4	-110.94					
WCDMA-B5	4182	846.6	846.6	-108.17					
	4182	846.6	846.6	-108.28	-107.81	-104.8	-102		
	4182	846.6	846.6	-106.97					
WCDMA-B8	2112	864.4	864.4	-107.86					
	2112	864.4	864.4	-107.86	-107.83	-99			
	2888	865.6	865.6	-107.48					
FDD LTE-B2	18900	1880.0	1880.0	-98.34	-98.32	-92.2	-90		
	18900	1880.0	1880.0	-98.79					
	18900	1880.0	1880.0	-97.84					
FDD LTE-B4	20100	1742.5	1742.5	-98.90	-98.41	-93.3	-91.5		
	20100	1742.5	1742.5	-98.40					
	20100	1742.5	1742.5	-98.14					
FDD LTE-B5	20400	1804.0	1804.0	-95.96					
	20400	1804.0	1804.0	-95.85	-95.83	-92.6	-90		
	20400	1804.0	1804.0	-95.16					
FDD LTE-B7	20400	1804.0	1804.0	-97.69					
	21100	1856.0	1856.0	-96.19	-97.37	-87.5			
	21100	1856.0	1856.0	-97.64					
FDD LTE-B12	21100	1856.0	1856.0	-92.85					
	21100	1856.0	1856.0	-93.86	-93.73	-91	-90.5		
	21100	1856.0	1856.0	-94.38					
FDD LTE-B13	21200	1792.0	1792.0	-95.64	-95.64	-91	-90		
	21200	1792.0	1792.0	-93.59					
	21200	1792.0	1792.0	-93.47	-93.47	-91	-90.5		
FDD LTE-B25	22900	1854.0	1854.0	-96.37					
	22900	1854.0	1854.0	-96.73	-96.03	-87			
	22900	1854.0	1854.0	-96.61					
FDD LTE-B26	22900	1854.0	1854.0	-94.12					
	22900	1854.0	1854.0	-94.12	-93.54	-86			
	22900	1854.0	1854.0	-92.54					
FDD LTE-B28	22900	1854.0	1854.0	-94.11					
	22900	1854.0	1854.0	-95.32	-94.90	-91	-90.5		
	22900	1854.0	1854.0	-95.26					

Performance Color Table		
	Channel Level	
	Not optimized Level	

Main Reference			For US Bands
ANT Switch State	Matching	GSM850DCS1800PCS1900 WCDMA-B1/B2/B4/B5/LTE-B2/B4/B5/B7/B25/B26	
State 1	Active	LTE-B2/B4/B5/B7/B25	
State 2	Idle	GSM850 WCDMA-B8	
State 3	Idle		
Diversity Reference			For US Bands
ANT Switch State	Matching	WCDMA-B1/B2/B4/B5/B6/LTE-B4/B5/B6/LTE-B25/B26	
State 1	Active	LTE-B2/B4/B5/B7/B25	
State 2	Idle		

WIFI OTA TEST(LCD ON)					
Mode: 802.11b Rate: 11Mbps BW: 20M					
Band	Channel	Freq/MHz	TRP (dBm) FS	AVE	SPEC
WIFI 2.4G	1	2412	15.21	15.55	≥16
	7	2442	16.09		
	11	2462	15.34		
Mode: 802.11b Rate: 11Mbps BW: 20M					
Band	Channel	Freq/MHz	TIS (dBm) FS	AVE	SPEC
WIFI 2.4G	1	2412	-88.10	-88.27	≤-86
	7	2442	-88.34		
	11	2462	-88.36		

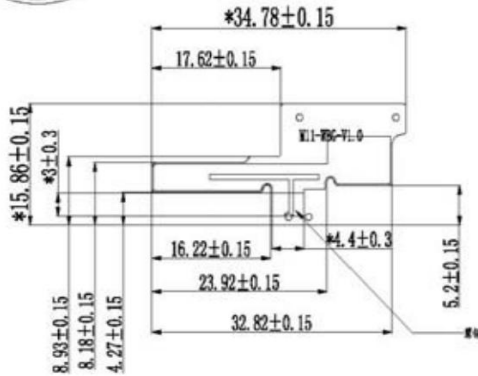
GPS OTA TEST	
Freq (MHz)	TIS
1575.42	-143.09

WIFI OTA TEST(LCD ON)					
Mode: 802.11a Rate: 6Mbps BW: 20M					
Band	Channel	Freq/MHz	TRP (dBm) FS	AVE	SPEC
WIFI 5G	36	5180	15.99	15.42	≥14
	100	5500	15.73		
	165	5850	14.53		
Mode: 802.11a Rate: 54Mbps BW: 20M					
Band	Channel	Freq/MHz	TIS (dBm) FS	AVE	SPEC
WIFI 5G	36	5180	-76.03	-76.23	≤-74
	100	5500	-77.09		
	165	5850	-75.58		

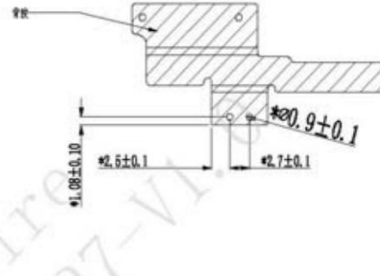
Antenna design drawing
WIF/BT ANT



丝印字符 Silk screen character
M11-WBG-V1.0



正面 (走线面)
Front (wiring surface)



Back side (adhesive back side)
反面 (背胶面)

NFCANT

