

规格承认书
SPECIFICATION FOR APPROVAL

日期
DATE: 2024.07.03

版本
REV.: V1.0

客 户
CUSTOMER: 德明通讯（上海）股份有限公司

客 户 料 号
CUSTOMER P/N: *****

品 名
PART NAME: PW550-NA Antenna

供 方 料 号
SUPPLIER P/N: N12-7548-R0A

送样日期 Date: 送样数量 Q'TY: Pcs

客户确认 CUSTOMER APPROVED BY		
工程研发部	生产采购部	承认
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY

供方确认 SUPPLIER SIGNATURE		
研发部	工程部	批准
ENGINEER R&D DEPT	ENGINEER R&D DEPT	APPROVAL

Revised History

[illegible]

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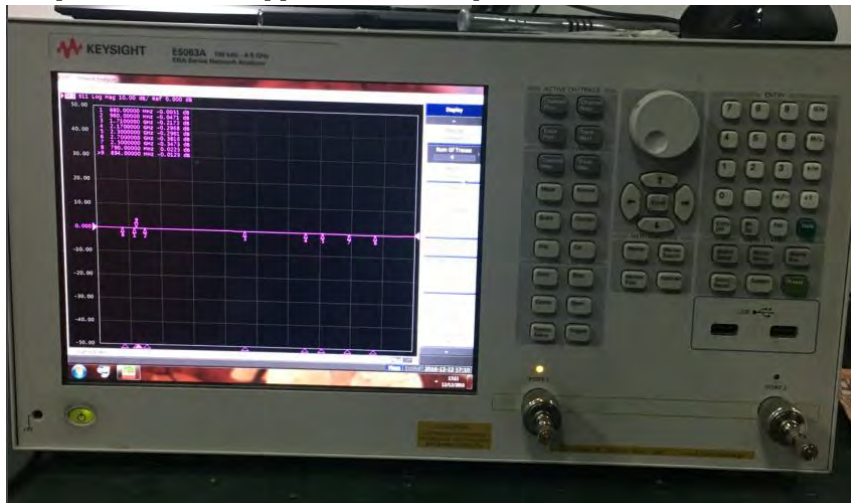
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1. RF Fixture Experiment

1.1 Test Setup

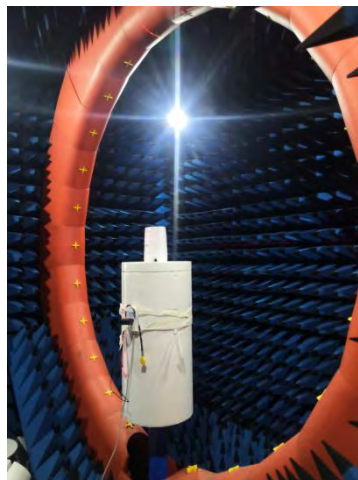
1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S11) were performed using an KeySight E5071C Network Analyzer. The isolation between antennas is also teste. The testing was performed with apparatus in free space.



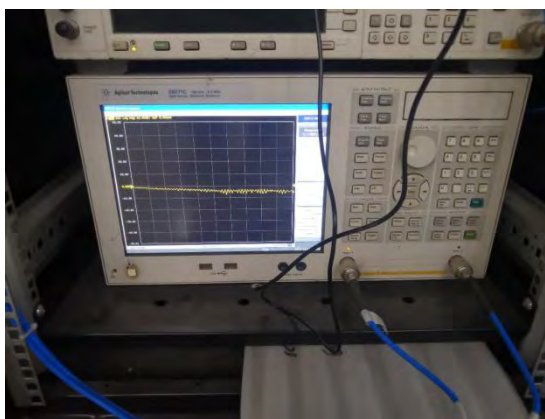
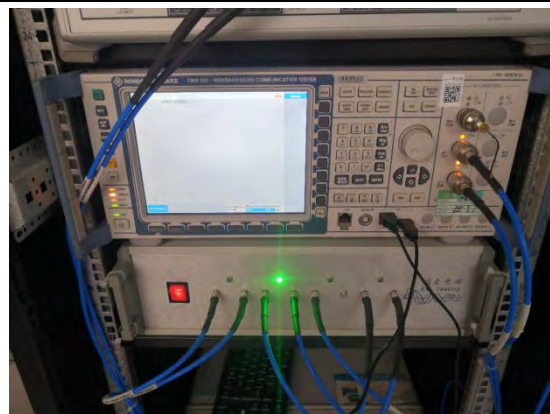
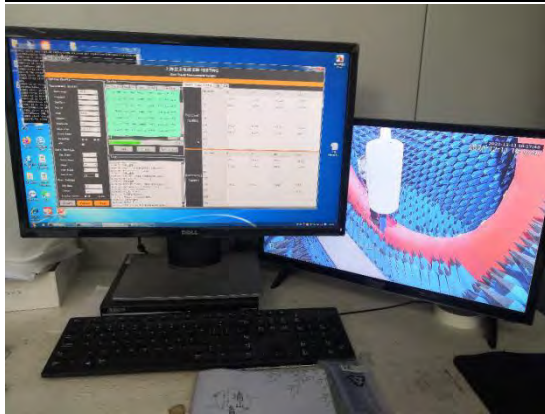
1.1.2 Anechoic Chamber Test Setup

When we test Gain and Efficiency of the antenna, we will use the ETS 3D chamber. The chamber provides test frequency from 400MHz to 6GHz. The real test environment is showing as following picture



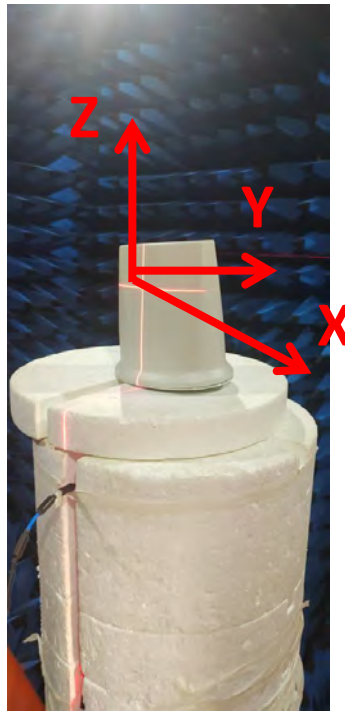


Shenzhen be-comfortable Technology Co. Ltd.

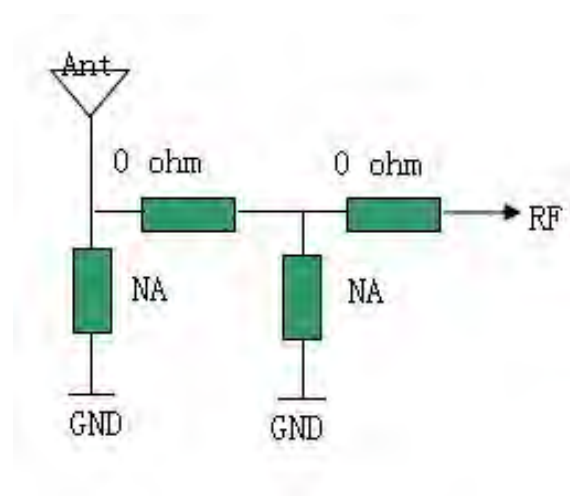


1.2 UE configuration

1.2.1 Antenna location pictures

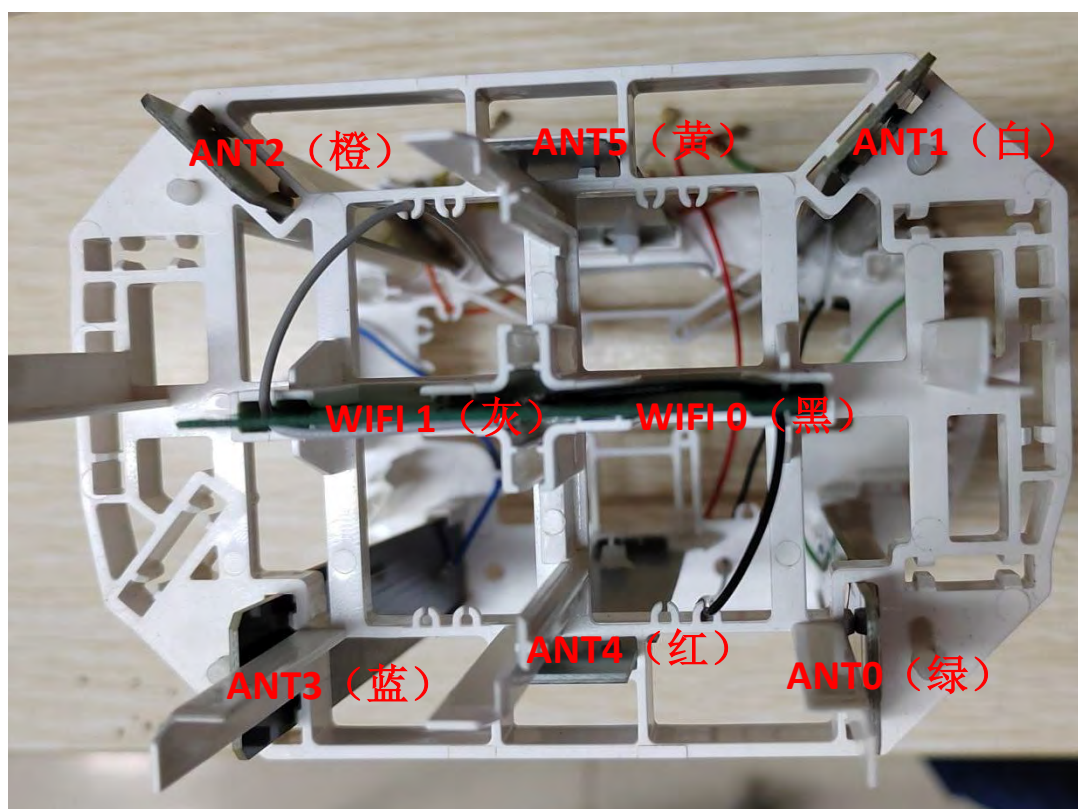


1.2.2 RF matching for different antennas



1.2.3

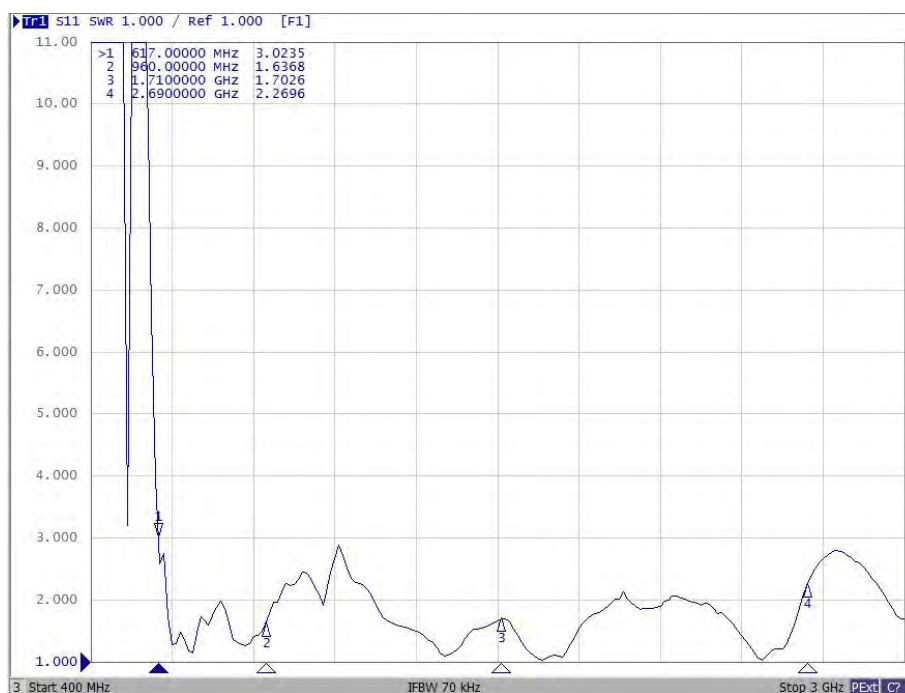
Physical figure



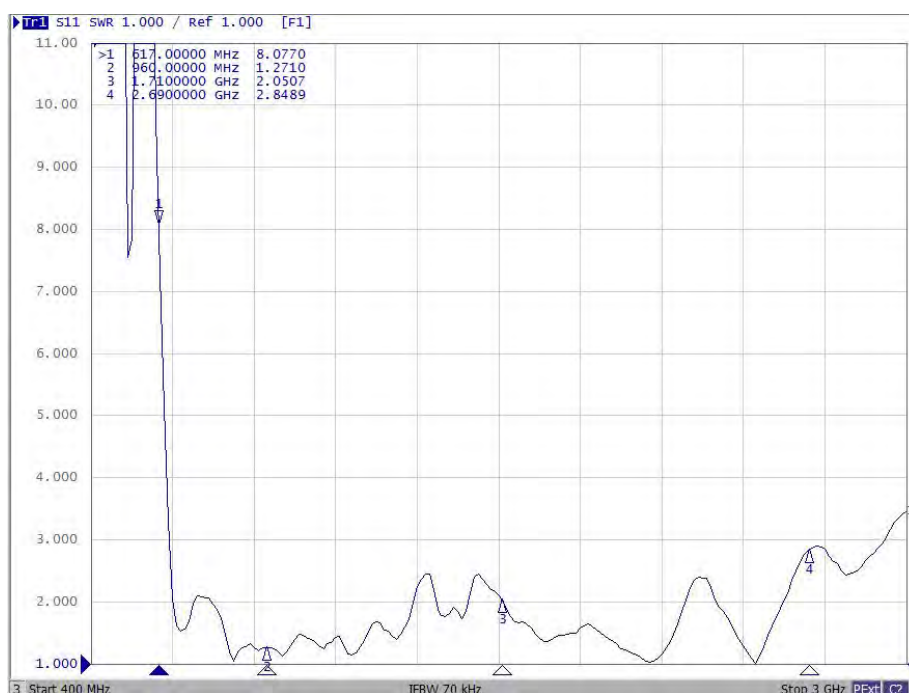
ANT0	617~960MHz	1710~2690MHz	/
ANT2	617~960MHz	1710~2690MHz	/
ANT4	3300~4200MHz	/	/
ANT1	1930~2690MHz	3300~4200MHz	5150~5925MHz
ANT3	1710~2690MHz	3300~4200MHz	5150~5925MHz
ANT5	3300~4200MHz	/	/
WIFI 0/1	2400~2500MHz	5150~5850MHz	/

2.1 Passive Test Result(S parameters)

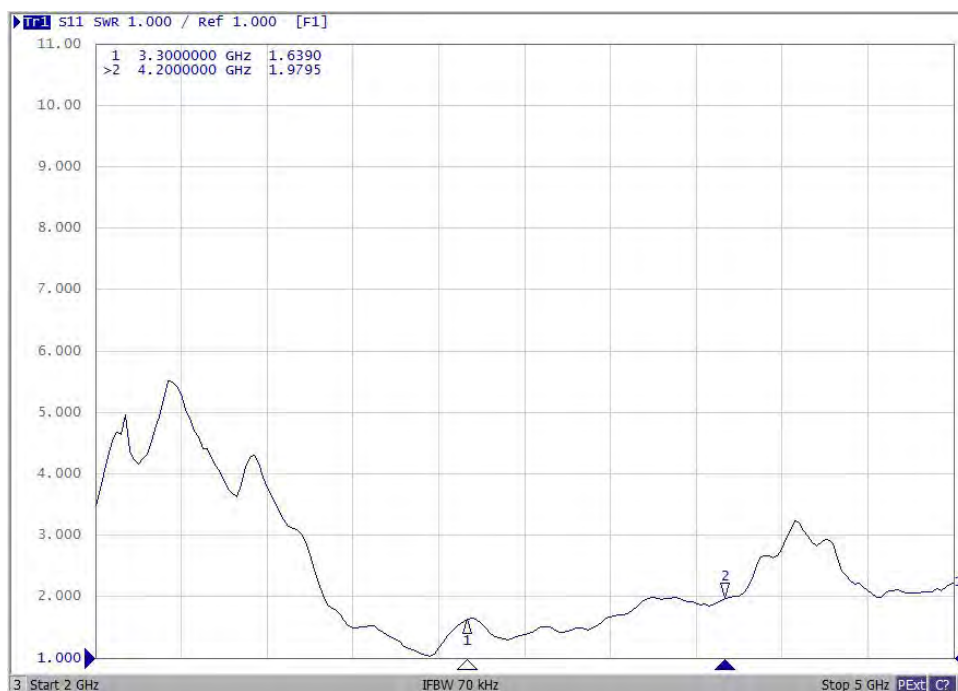
Antenna 0 617~960MHz 1710~2690MHz VSWR



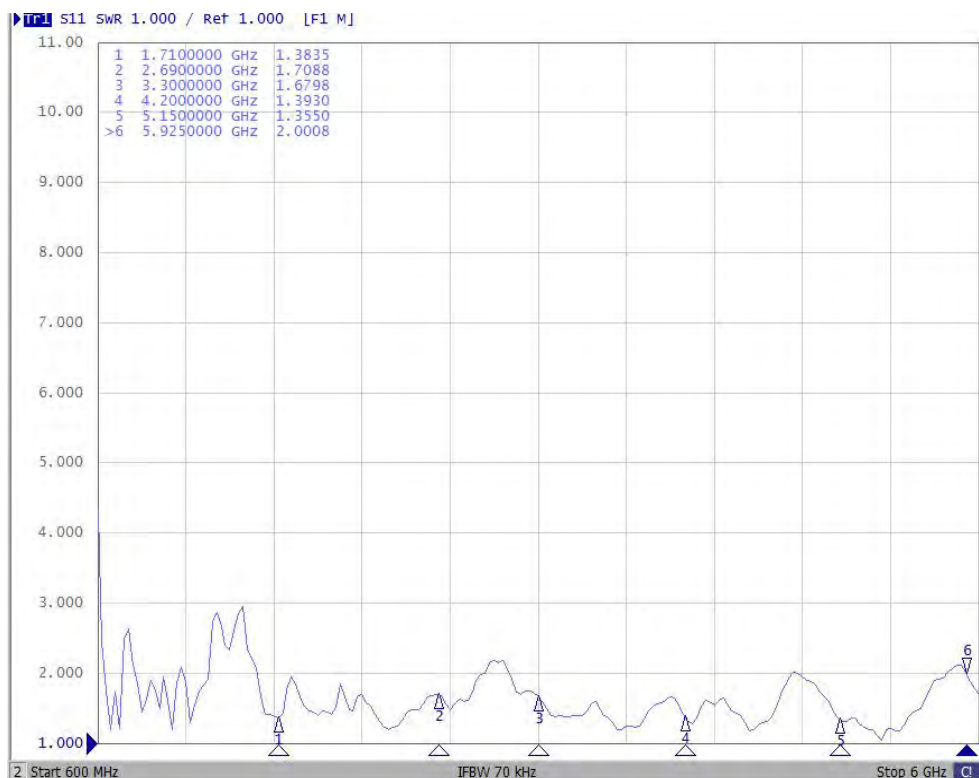
Antenna 2 617~960MHz 1710~2690MHz VSWR



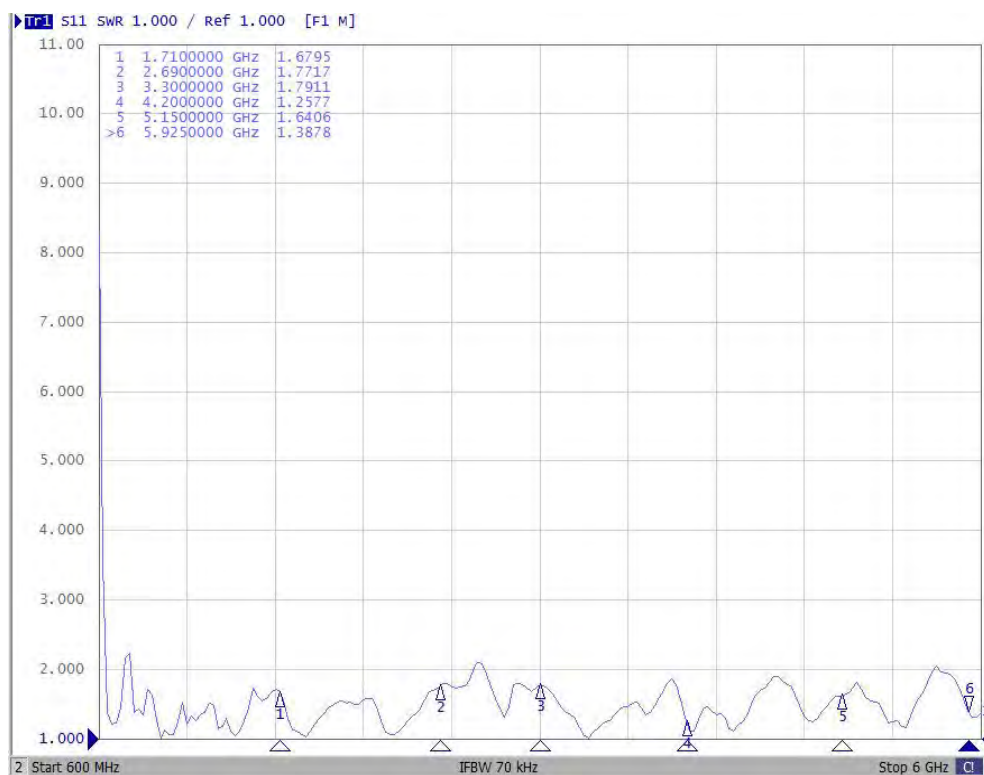
Antenna 4 3300~4200MHz VSWR



Antenna 1 1930~2690MHz 3300~4200MHz 5150~5925MHz VSWR



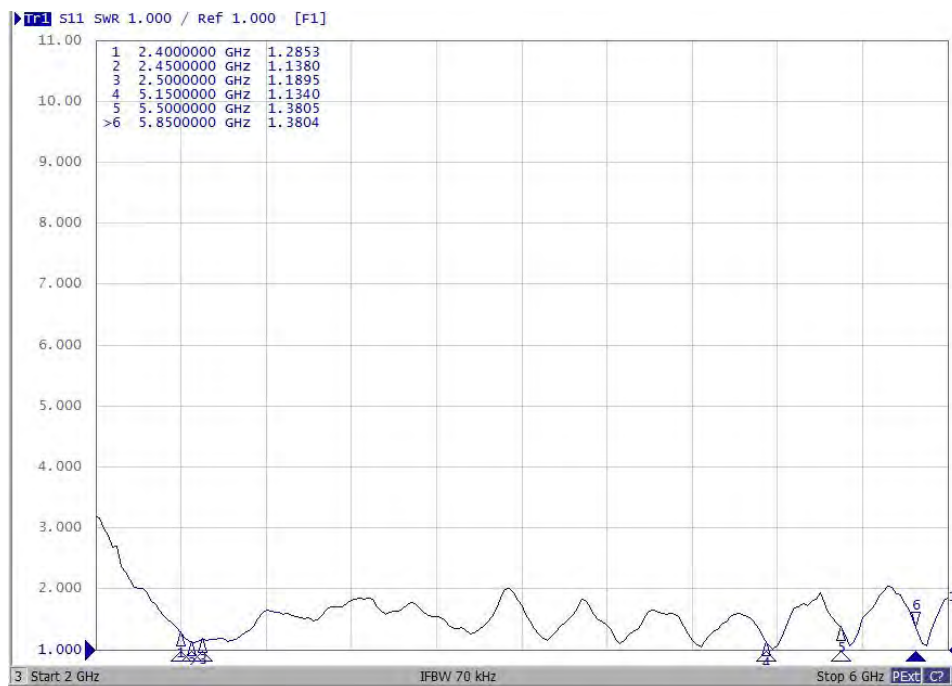
Antenna 3 1710~2690MHz 3300~4200MHz 5150~5925MHz VSWR



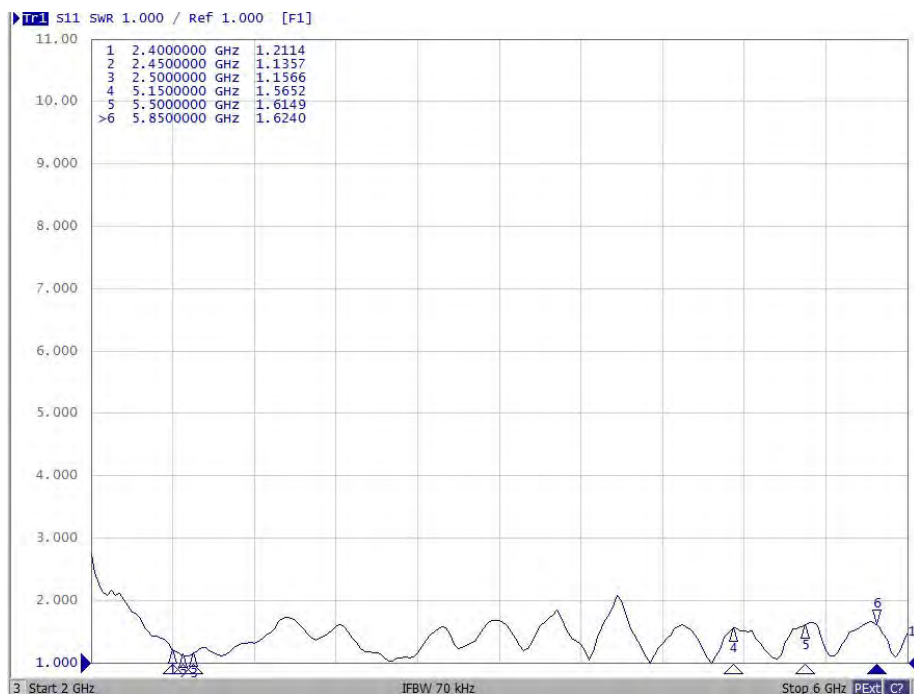
Antenna 5 3300~4200MHz VSWR



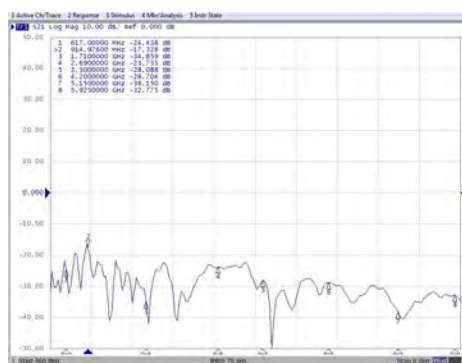
WIFI 0 2400~2500MHz 5150~5850MHz VSWR



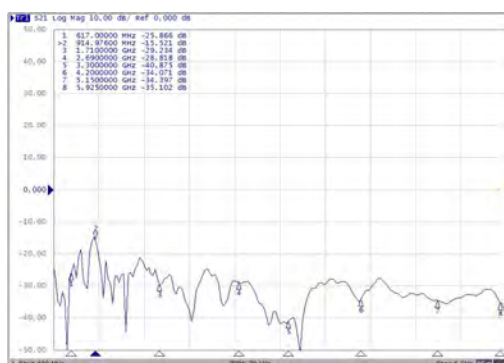
WIFI 1 2400~2500MHz 5150~5850MHz VSWR



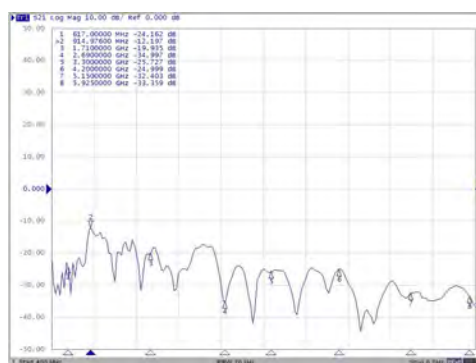
617~960MHz 1710~2690MHz Antenna 0 &
617~960MHz 1710~2690MHz Antenna 2
S21



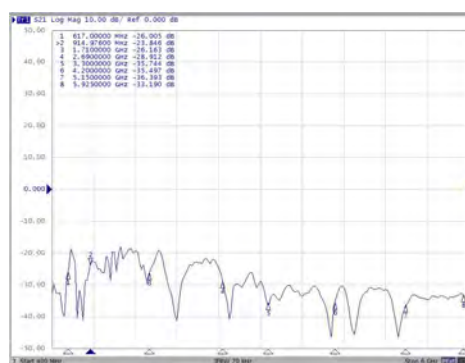
617~960MHz 1710~2690MHz Antenna 0 &
3300~4200MHz Antenna 4 S21



617~960MHz 1710~2690MHz Antenna 0 &
1930~2690MHz 3300~4200MHz
5150~5925MHz Antenna 1 S21

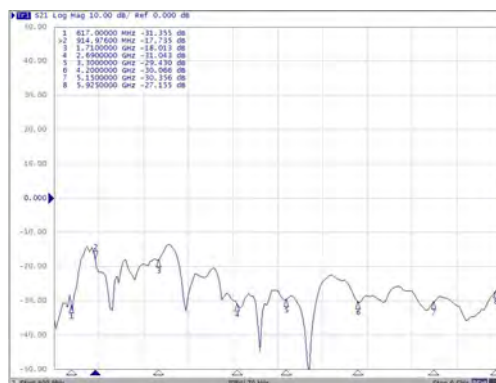
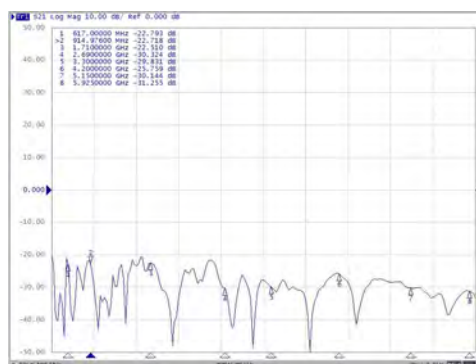


617~960MHz 1710~2690MHz Antenna 0 &
1710~2690MHz 3300~4200MHz
5150~5925MHz Antenna 3 S21



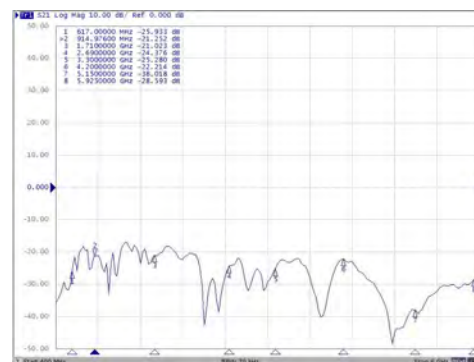
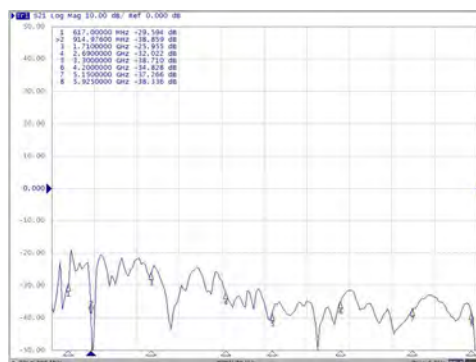
617~960MHz 1710~2690MHz Antenna 0 &
3300~4200MHz Antenna 5 S21

617~960MHz 1710~2690MHz Antenna 0 &
2400~2500MHz 5150~5850MHz WIFI 0
S21



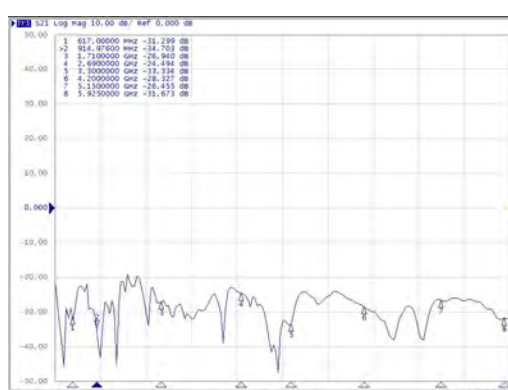
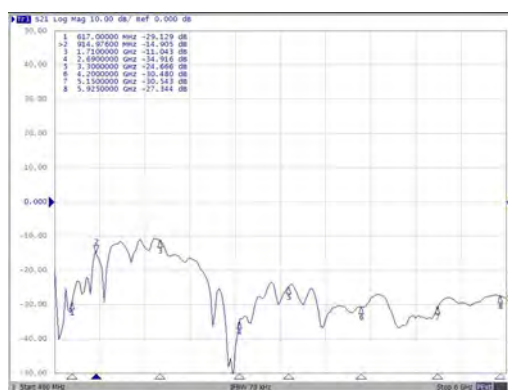
617~960MHz 1710~2690MHz Antenna 0 &
2400~2500MHz 5150~5850MHz WIFI 1
S21

617~960MHz 1710~2690MHz Antenna 2 &
3300~4200MHz Antenna 4 S21



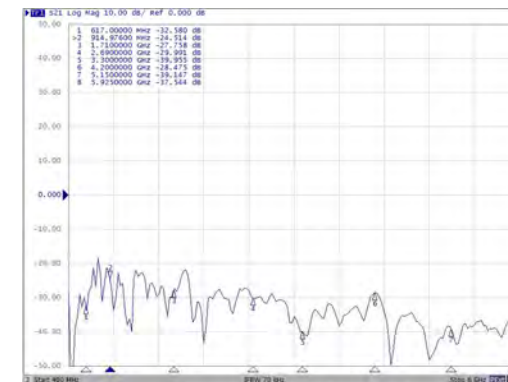
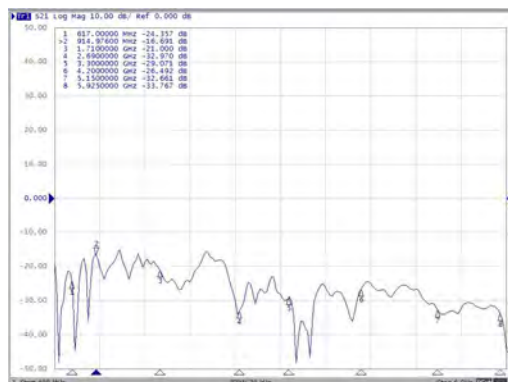
617~960MHz 1710~2690MHz Antenna 2 &
1930~2690MHz 3300~4200MHz
5150~5925MHz Antenna 1 S21

617~960MHz 1710~2690MHz Antenna 2 &
1710~2690MHz 3300~4200MHz
5150~5925MHz
Antenna 3 S21



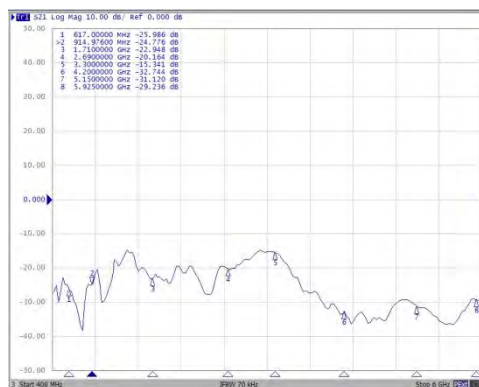
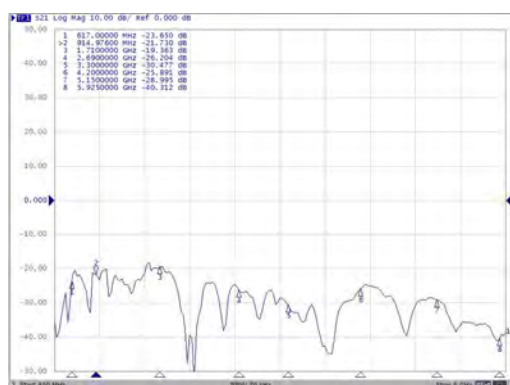
617~960MHz 1710~2690MHz Antenna 2 &
3300~4200MHz Antenna 5 S21

617~960MHz 1710~2690MHz Antenna 2 &
2400~2500MHz 5150~5850MHz WIFI 0
S21



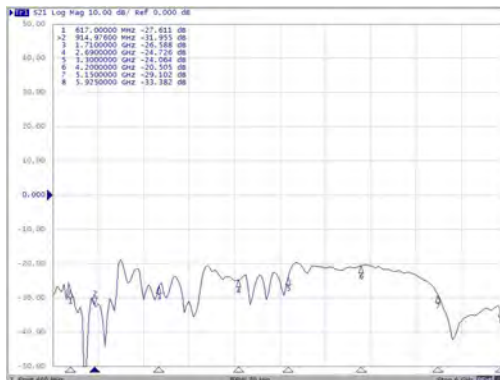
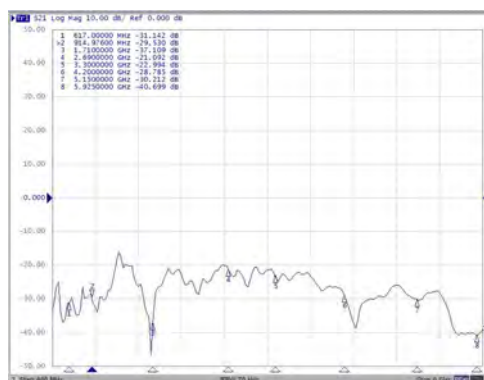
617~960MHz 1710~2690MHz Antenna2 &
2400~2500MHz 5150~5850MHz
WIFI 1 S21

3300~4200MHz Antenna 4 &
1930~2690MHz 3300~4200MHz
5150~5925MHz
Antenna 1 S21



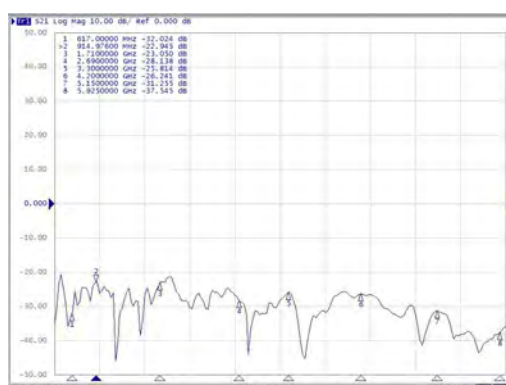
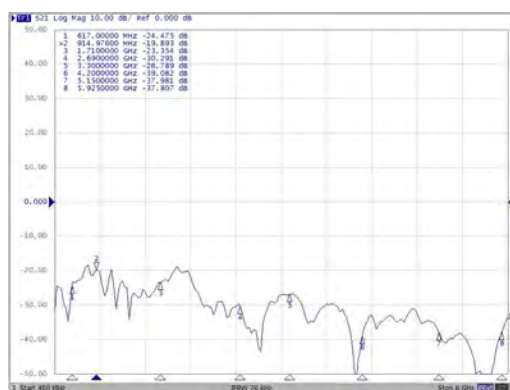
3300~4200MHz Antenna4 &
1710~2690MHz 3300~4200MHz
5150~5925MHz
Antenna 3 S21

3300~4200MHz Antenna 4 &
3300~4200MHz Antenna 5 S21



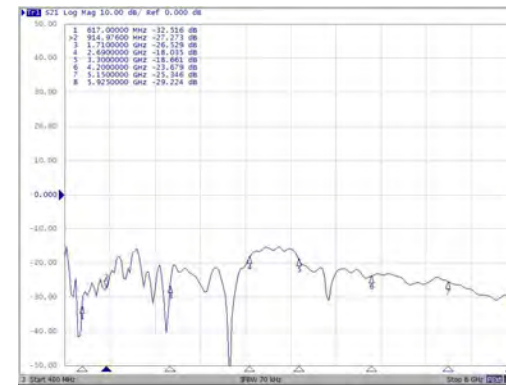
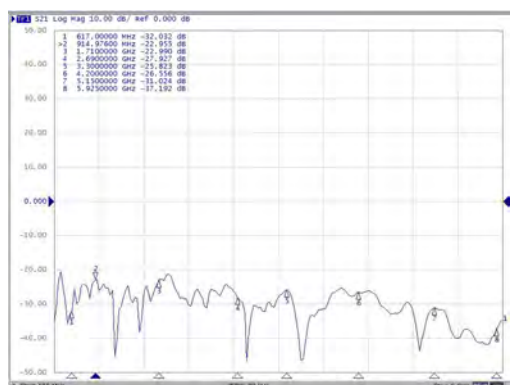
3300~4200MHz Antenna4 &
2400~2500MHz 5150~5850MHz WIFI 0
S21

3300~4200MHz Antenna 4&
2400~2500MHz 5150~5850MHz WIFI 1
S21



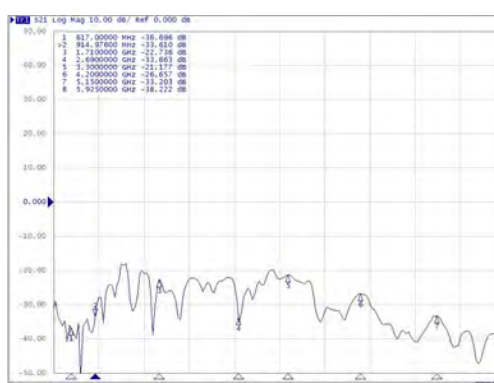
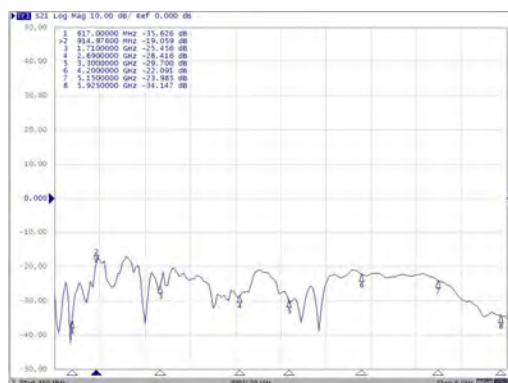
1930~2690MHz 3300~4200MHz
5150~5925MHz Antenna 1 &
1710~2690MHz 3300~4200MHz
5150~5925MHz
Antenna 3 S21

1930~2690MHz 3300~4200MHz
5150~5925MHz Antenna 1 &
3300~4200MHz Antenna 5 S21



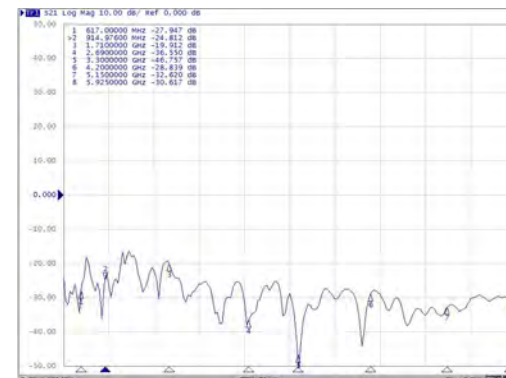
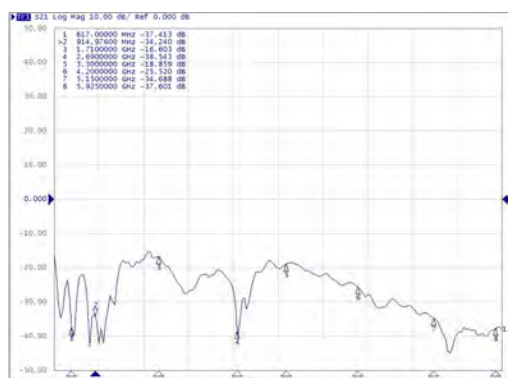
1930~2690MHz 3300~4200MHz
5150~5925MHz Antenna1 &
2400~2500MHz 5150~5850MHz WIFI 0
S21

1930~2690MHz 3300~4200MHz
5150~5925MHz Antenna 1 &
2400~2500MHz 5150~5850MHz WIFI 1
S21



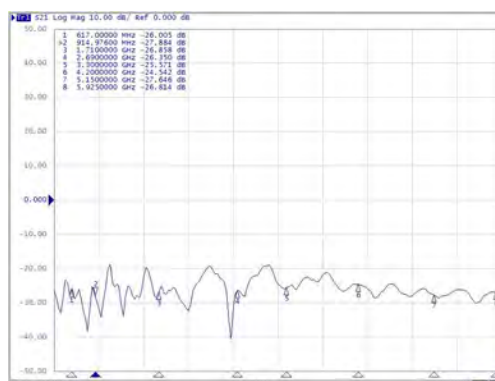
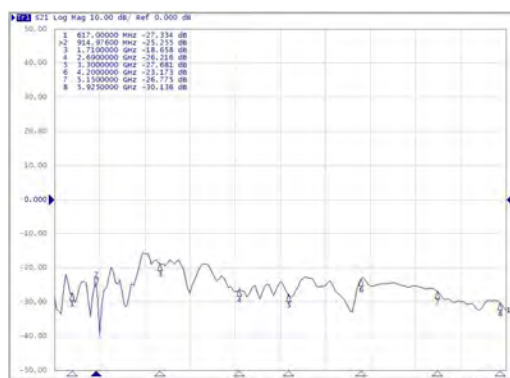
1710~2690MHz 3300~4200MHz
5150~5925MHz Antenna 3 &
 3300~4200MHz Antenna 5 S21

1710~2690MHz 3300~4200MHz
5150~5925MHz Antenna3 &
2400~2500MHz 5150~5850MHz WIFI 0
S21



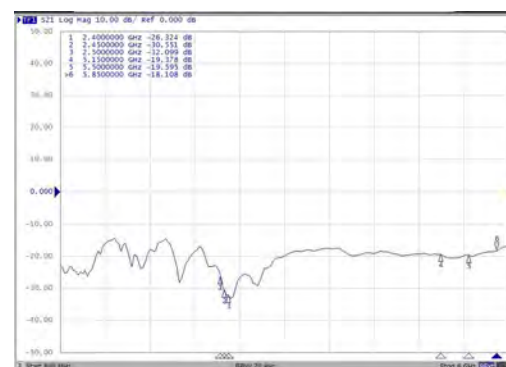
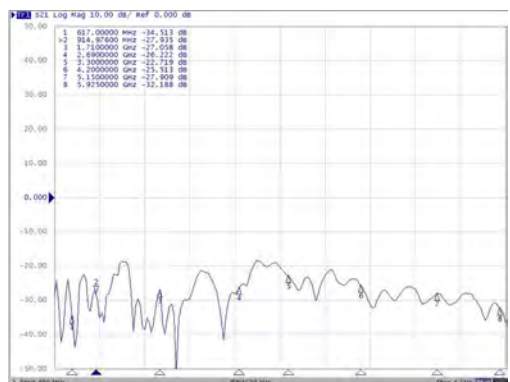
1710~2690MHz 3300~4200MHz
5150~5925MHz Antenna3&
2400~2500MHz 5150~5850MHz WIFI 1
S21

3300~4200MHz Antenna 5 &
2400~2500MHz 5150~5850MHz WIFI 0
S21



3300~4200MHz Antenna 5 &
2400~2500MHz 5150~5850MHz WIFI 1
S21

2400~2500MHz 5150~5850MHz WIFI 0 &
2400~2500MHz 5150~5850MHz WIFI 1 S21



Antenna 0 617~960MHz 1710~2690MHz Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
600	-3.28	16.69	1700	1.24	55.53
620	0.56	31.26	1740	1.30	55.16
640	-0.48	28.03	1780	1.47	59.50
660	-1.33	20.84	1820	1.20	50.75
680	-1.12	22.30	1860	1.46	50.86
700	0.29	33.88	1900	1.53	55.98
720	1.86	32.84	1940	1.81	53.63
740	1.22	41.73	1980	1.82	54.61
760	1.31	43.54	2020	1.38	54.68
780	1.60	39.26	2060	1.02	52.21
800	0.87	38.70	2100	1.97	59.49
820	0.68	32.47	2140	1.03	51.94
840	0.90	35.30	2180	1.03	56.39
860	1.05	40.81	2220	1.39	52.31
880	1.63	46.45	2260	0.86	58.02
900	1.22	45.08	2300	0.22	58.11
920	1.31	47.38	2340	0.22	58.02
940	1.17	50.34	2380	0.79	55.70
960	1.60	49.19	2420	1.44	55.06
			2460	1.03	56.97
			2500	1.05	53.18
			2540	1.03	51.60
			2580	1.07	50.22
			2620	1.35	59.56
			2660	1.54	57.44
			2700	1.77	52.85

Antenna 2 617~960MHz 1710~2690MHz Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
600	-8.08	8.73	1700	1.34	49.95
620	-5.51	13.44	1740	1.82	52.61
640	-4.19	17.83	1780	1.75	57.80
660	-1.18	21.36	1820	1.70	55.55
680	0.06	32.14	1860	1.70	56.89
700	0.92	39.01	1900	1.00	57.68
720	0.33	45.19	1940	1.13	58.19
740	1.43	50.27	1980	1.65	58.46
760	-0.06	47.13	2020	1.00	59.59
780	0.43	46.77	2060	1.37	58.73
800	-0.25	41.65	2100	1.35	56.43
820	0.85	37.72	2140	1.15	57.02
840	1.56	44.91	2180	1.50	59.18
860	1.43	48.84	2220	1.38	53.38
880	1.32	55.62	2260	0.86	52.07
900	1.56	58.41	2300	0.22	43.88
920	1.60	54.06	2340	0.22	39.69
940	1.27	53.54	2380	0.56	41.66
960	0.97	52.39	2420	0.92	51.20
			2460	1.12	50.42
			2500	1.07	59.83
			2540	1.04	50.67
			2580	1.04	56.27
			2620	1.58	57.59
			2660	1.77	51.41
			2700	1.04	45.91

Antenna 4 3300~4200MHz Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
3300	3.34	50.52			
3350	4.55	52.13			
3400	4.86	53.08			
3450	5.18	53.56			
3500	5.84	54.00			
3550	5.84	55.58			
3600	5.09	54.66			
3650	5.41	56.90			
3700	5.43	58.27			
3750	4.95	58.21			
3800	4.58	57.89			
3850	3.30	55.20			
3900	4.02	54.44			
3950	4.45	52.76			
4000	4.70	50.25			
4050	4.67	59.52			
4100	4.45	50.59			
4150	4.38	53.05			
4200	4.10	52.49			

Antenna 1 1930~2690MHz 3300~4200MHz 5150~5925MHz
Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
1900	1.91	51.59	5150	2.09	67.84
1950	1.19	52.12	5200	2.06	66.55
2000	1.84	56.05	5250	2.07	60.26
2050	1.10	59.26	5300	2.79	66.00
2100	1.22	58.78	5350	2.27	60.91
2150	1.75	57.60	5400	2.96	66.36

2200	1.17	51.27	5450	2.22	69.41
2250	0.37	56.65	5500	2.61	62.59
2300	0.22	54.74	5550	2.72	64.16
2350	0.22	50.79	5600	2.10	57.57
2400	0.39	50.20	5650	2.40	58.13
2450	1.15	51.48	5700	2.29	54.80
2500	1.07	59.28	5750	2.16	58.03
2550	1.02	52.47	5800	2.43	58.22
2600	1.01	53.60	5850	2.50	63.19
2650	1.24	59.50	5900	2.91	58.81
2700	1.71	59.95	5950	2.65	59.42
3300	4.12	50.74			
3350	4.23	51.89			
3400	3.95	51.14			
3450	4.24	52.07			
3500	4.69	52.77			
3550	4.53	53.42			
3600	4.58	52.54			
3650	4.39	52.21			
3700	4.58	54.67			
3750	4.72	55.71			
3800	4.66	56.54			
3850	4.62	56.29			
3900	4.53	55.27			
3950	4.41	53.98			
4000	4.28	52.29			
4050	4.33	52.51			
4100	4.38	53.09			
4150	4.23	53.91			
4200	4.33	53.74			

Antenna 3

1710~2690MHz

3300~4200MHz

5150~5925MHz Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
1700	1.87	58.16	5150	2.95	68.22
1750	1.77	51.56	5200	2.86	67.74

1800	1.20	48.26	5250	2.00	62.35
1850	1.57	56.24	5300	2.12	59.72
1900	1.26	51.47	5350	2.37	65.01
1950	1.52	52.18	5400	2.88	61.71
2000	1.67	54.92	5450	2.23	66.52
2050	1.22	59.45	5500	2.71	60.36
2100	1.84	50.40	5550	2.11	66.08
2150	1.56	52.63	5600	2.89	58.75
2200	1.37	55.17	5650	2.05	61.69
2250	0.74	53.45	5700	2.27	57.05
2300	0.22	54.41	5750	2.33	59.06
2350	0.17	53.75	5800	2.54	56.74
2400	0.22	52.23	5850	2.51	66.26
2450	1.08	59.57	5900	2.50	61.55
2500	1.05	55.11	5950	2.65	61.48
2550	1.07	51.14			
2600	1.05	54.75			
2650	1.92	50.12			
2700	1.23	50.10			
3300	4.26	52.32			
3350	4.30	52.26			
3400	4.25	52.51			
3450	4.27	53.33			
3500	4.33	54.59			
3550	4.32	54.54			
3600	4.39	55.28			
3650	4.49	57.67			
3700	4.64	58.42			
3750	4.57	57.01			
3800	4.46	55.45			
3850	4.35	53.50			
3900	4.26	52.50			
3950	4.06	52.62			
4000	4.11	52.42			
4050	4.26	52.72			
4100	4.32	52.42			
4150	4.31	53.13			
4200	4.29	53.46			

Antenna 5 3300~4200MHz Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
3300	2.73	57.52			
3350	3.35	51.45			
3400	4.23	57.40			
3450	4.14	56.72			
3500	3.87	57.03			
3550	3.69	57.00			
3600	4.21	56.74			
3650	4.54	57.59			
3700	4.61	50.17			
3750	4.20	54.41			
3800	4.11	51.62			
3850	4.52	50.57			
3900	3.23	51.56			
3950	4.03	53.79			
4000	4.14	54.23			
4050	4.01	51.81			
4100	4.29	52.99			
4150	4.75	55.75			
4200	4.91	55.99			

WIFI 0 2400~2500MHz 5150~5850MHz Efficiency

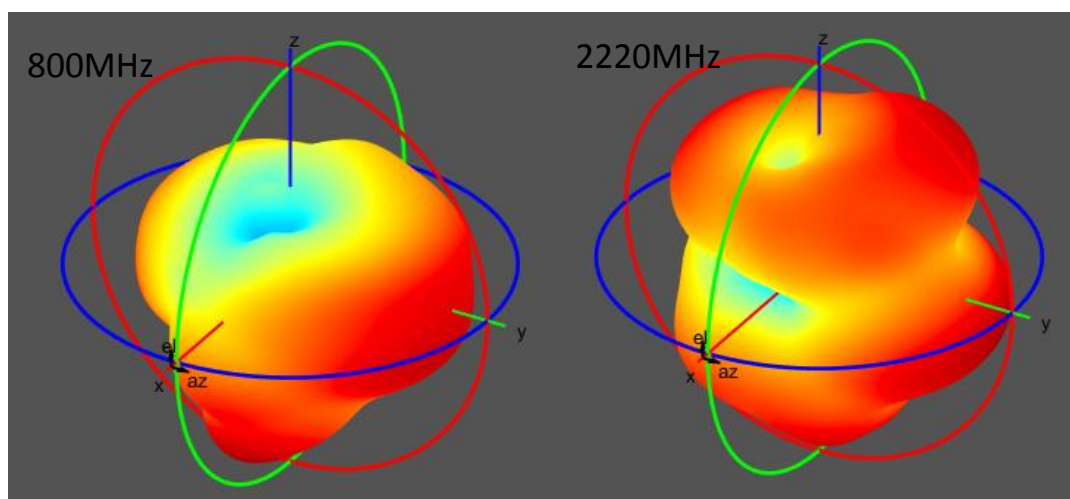
Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
2400.00	4.48	66.79	5000.00	4.62	51.59
2410.00	4.53	66.44	5100.00	5.75	57.84
2420.00	4.56	68.26	5200.00	6.05	56.73
2430.00	4.36	68.49	5300.00	5.87	50.15
2440.00	4.14	66.92	5400.00	6.49	53.18
2450.00	4.03	67.11	5500.00	5.97	52.22
2460.00	3.93	69.02	5600.00	5.29	52.50
2470.00	3.74	67.52	5700.00	4.72	54.21

2480.00	3.72	67.42	5800.00	4.85	57.13
2490.00	3.49	66.61	5900.00	4.35	57.24
2500.00	3.31	66.43	6000.00	3.01	53.01

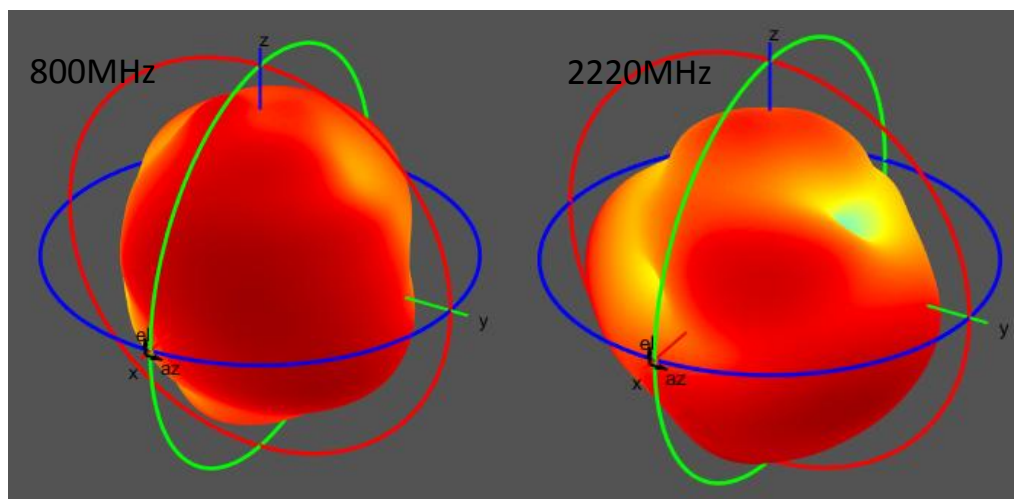
WIFI 1 2400~2500MHz 5150~5850MHz Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency(%)	Frequency (MHz)	Gain(dBi)	Efficiency(%)
2400.00	2.69	65.67	5000.00	5.14	53.50
2410.00	2.67	65.73	5100.00	5.28	54.53
2420.00	3.08	67.40	5200.00	4.43	52.32
2430.00	3.42	67.67	5300.00	3.78	50.24
2440.00	3.13	66.22	5400.00	4.64	51.91
2450.00	3.12	66.27	5500.00	5.00	50.95
2460.00	3.49	68.05	5600.00	4.36	50.96
2470.00	3.64	67.70	5700.00	3.63	53.03
2480.00	3.64	68.02	5800.00	3.53	54.52
2490.00	3.83	68.45	5900.00	3.61	54.10
2500.00	3.93	68.03	6000.00	3.03	51.70

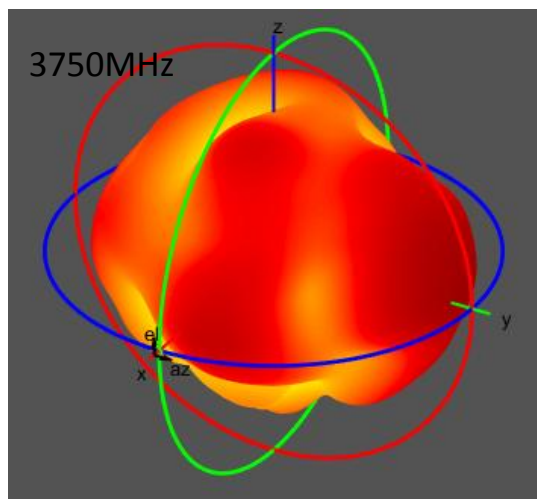
Antenna 0 617~960MHz 1710~2690MHz 3D



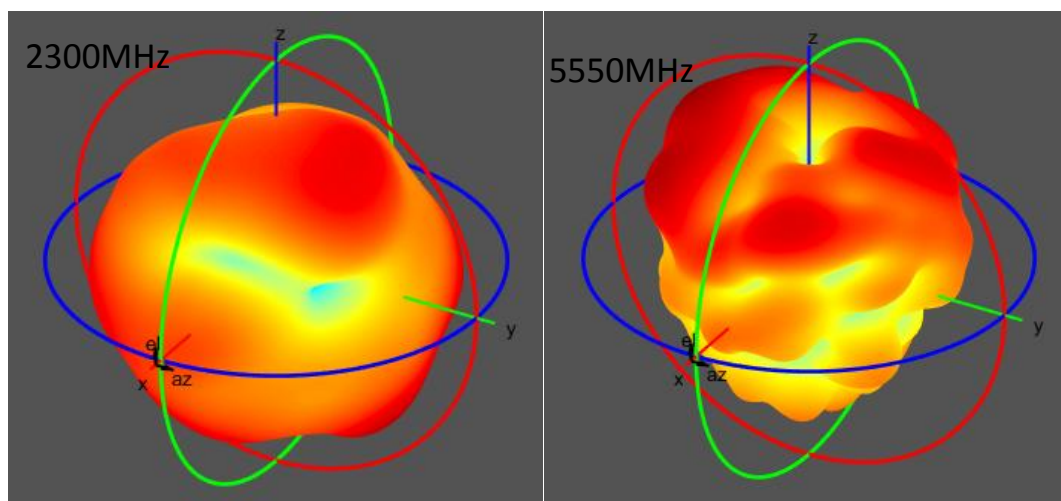
Antenna2 617~960MHz 1710~2690MHz 3D



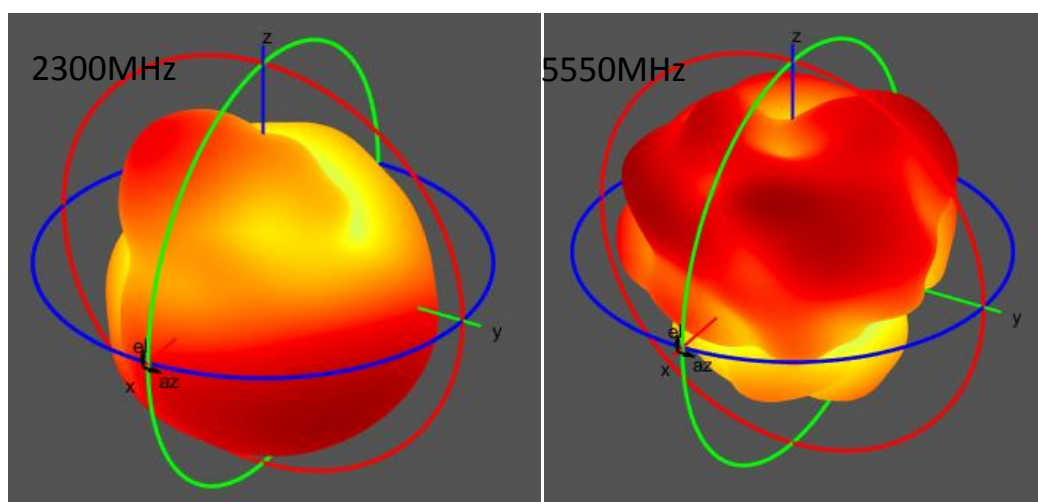
Antenna 4 3300~4200MHz 3D



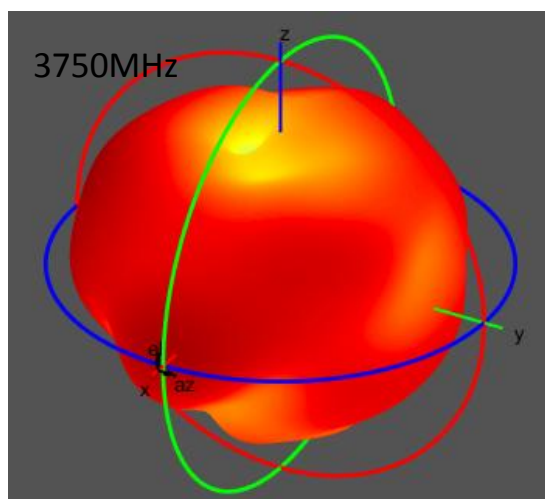
Antenna 1 1930~2690MHz 3300~4200MHz 5150~5925MHz 3D



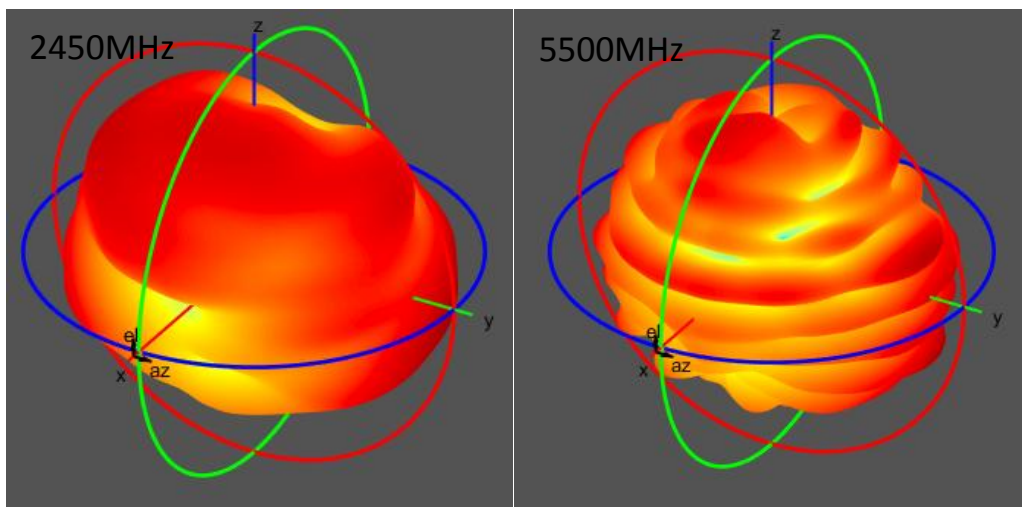
Antenna 3 2400~2500MHz 3300~4200MHz 5150~5850MHz 3D



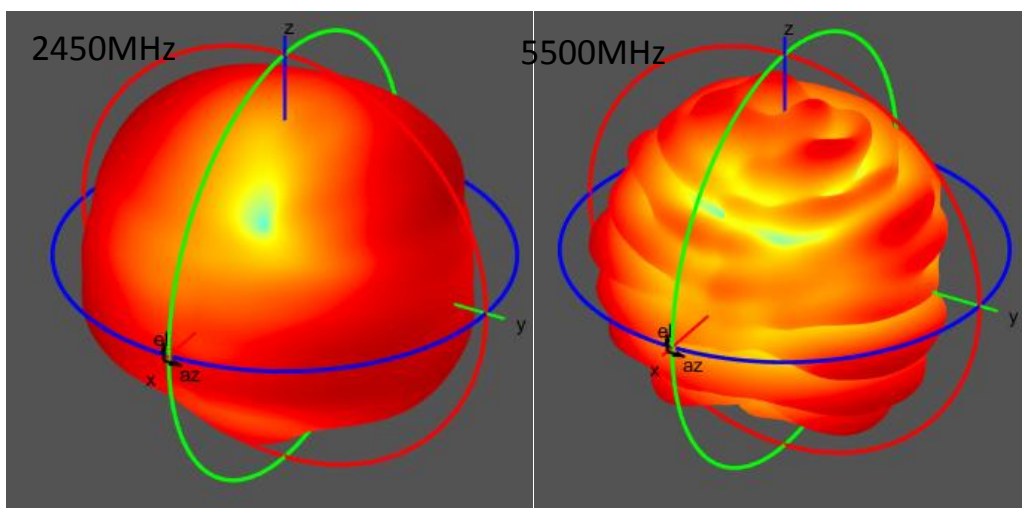
Antenna 5 3300~4200MHz 3D



WIFI 0 2400~2500MHz 5150~5850MHz 3D



WIFI 1 2400~2500MHz 5150~5850MHz 3D



2.2 Active Test Result(TRP TIS)

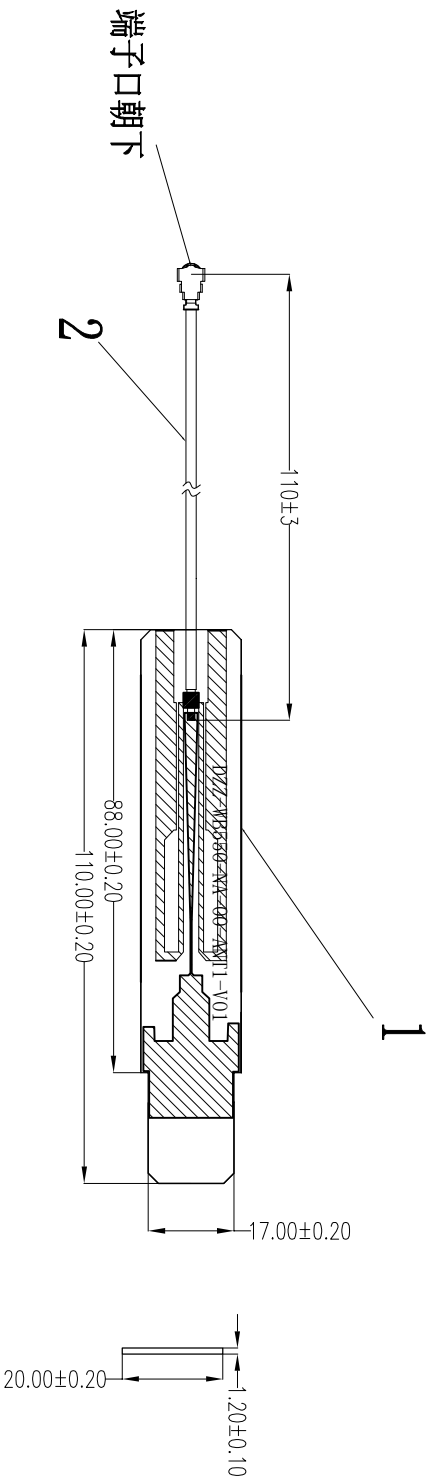
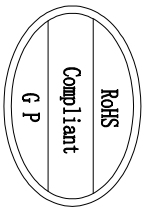
LTE	Channel	TRP(dBm)	TIS(dBm)	LTE	Channel	TRP(dBm)	TIS(dBm)
Band 2(10M)	L	20.12	-99.97	Band 17(10M)	L	19.44	-97.06
	M	20.12	-99.34		M	19.72	-97.19
	H	20.57	-99.18		H	19.91	-97.59
Band 66(4)(10M)	L	20.17	-99.4	Band 25(10M)	L	20.07	-103.47
	M	20.56	-99.3		M	20.74	-103.44
	H	20.11	-100.23		H	20.54	-103.36
Band 5(10M)	L	20.43	-99.12	Band 26(10M)	L	19.20	-100.02
	M	20.19	-99.86		M	19.79	-100.53
	H	20.36	-99.38		H	19.33	-100.07
Band 7(10M) (TIS WIFI CH1)	L	19.31	-99.73	Band 30(10M)	M	18.47	-97.57
	M	19.89	-98.66	Band 41(20M) (TIS WIFI CH1)	L	22.55	-96.33
	H	19.44	-98.54		M	22.62	-96.46
Band 12(10M)	L	18.12	-98.07	Band 48(20M)	H	22.60	-96.43
	M	18.74	-98.35		L	19.46	-99.85
	H	18.86	-97.92		M	19.58	-99.1
Band 13(10M)	L	18.11	-97.65	Band 71(10M)	H	20.02	-99.86
	M	18.07	-97.49		L	17.54	-95.89
	H	18.15	-97.12		M	17.63	-95.26
Band 14(10M)	L	18.11	-95.60		H	17.61	-96.27
	M	18.35	-95.31				
	H	18.76	-95.53				

5G SA	Channels	SCS(KHz)	TRP(dBm)	TIS(dBm)
N2 (10MHz)	L	15	20.04	-97.99
	M	15	20.18	-97.41
	H	15	20.05	-97.14
N5 (10MHz)	L	15	20.59	-97.56
	M	15	20.48	-97.34
	H	15	20.28	-98.01
n7 (10MHz) (TIS WIFI CH1)	L	15	20.31	-96.03
	M	15	20.38	-96.61
	H	15	20.88	-96.98
N12 (15MHz)	L	15	19.01	-93.65
	M	15	19.61	-93.23
	H	15	18.96	-93.04
N14 (10MHz)	L	15	18.38	-93.61
	M	15	19.41	-93.77
	H	15	19.88	-93.59
N25 (20MHz)	L	15	20.34	-98.82
	M	15	20.84	-98.79
	H	15	20.16	-99.45
n30 (10MHz)	L	15	18.31	-97.45
n41 (100MHz) (TIS WIFI CH1)	L	30	22.78	-87.18
	M	30	22.50	-87.57
	H	30	22.56	-87.93
n48 (100MHz)	L	30	19.4	-91.06
	M	30	19.54	-91.33

	H	30	19.75	-91.4
N66 (20MHz)	L	30	20.7	-97.7
	M	30	20.38	-97.88
	H	30	20.98	-98.87
N71 (20MHz)	L	30	17.04	-91.3
	M	30	17.86	-91.16
	H	30	18.29	-90.86
n77 (100MHz)	L	30	22.72	-91.34
	M	30	22.90	-91.66
	H	30	23.20	-92.77
n78 (100MHz)	L	30	22.78	-91.19
	M	30	22.86	-91.46
	H	30	23.02	-91.58

2.4G WIFI/11b			
channel	1	6	11
TRP(dBm) (11Mbps)	18.09	18.22	18.13
TIS(dBm) (11Mbps)	-90.36	-90.12	-90.77
5G WIFI /11a			
channel	36		161
TRP(dBm) (6Mbps)	21.83		21.02
TIS(dBm) (54Mbps)	-80.50		-80.71

[illegible]



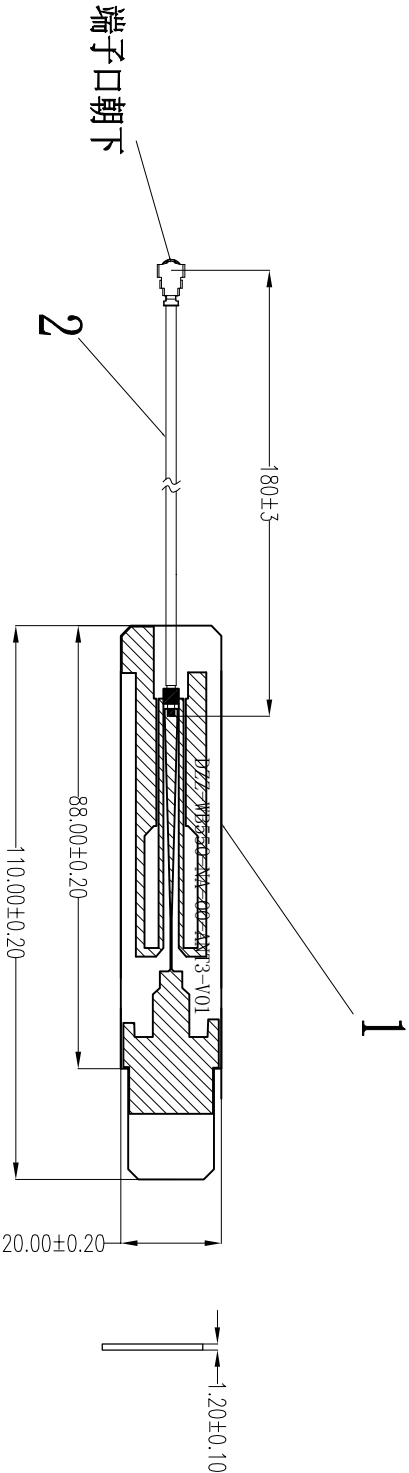
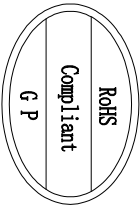
备注:

1. 标注“*”为重点尺寸, 未标公差尺寸按照 ± 0.15 检测
2. 未标注尺寸请依图纸。

No.	名称	规格	颜色	数量	备注
2	射频线	ø1.13mm；一代端子	白色	1	
1	POB	FR4, 单面板	黑色	1	

深圳得自在科技有限公司												
SHEN ZHEN Be Comfortable CO., LTD												
 Third angle		Project		WB550-NA-00		Date		2022. 10. 25				
0~10	±0.05	○	0.02	Part Name		ANT1		Designed by				
10~18	±0.10	◎	∅ 0.03	Part No.		NI2-7239-R0A		MD 田进				
18~30	±0.12	┘	0.02	Material		N/A		Checked by		RF 边博		
30~40	±0.15	∇	0.04	DWG No.				Approved by				
40~	±0.20	Angle	±0.5°									
Location		N/A				Unit		mm	Scale	1:1	Rev	A

A	New drawing		
Rev	Description	Date	Remark

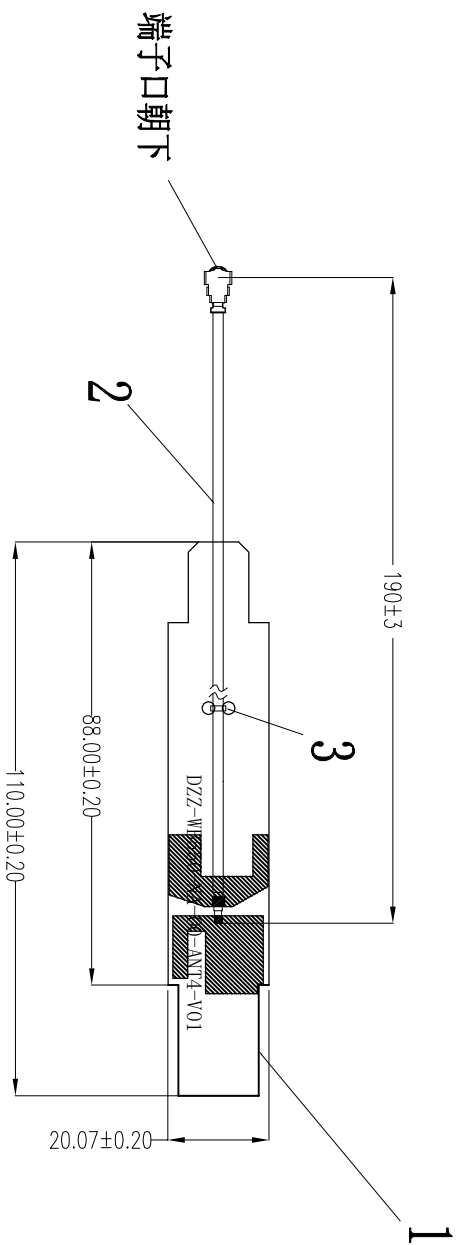


2	射频线	ø1.13mm ; 一代端子	蓝色	1	
1	PCB	FR4, 单面板	黑色	1	
No.	名称	规格	颜色	数量	备注

- 备注:
- 标注“*”为重点尺寸, 未标公差尺寸按照±0.15检测
 - 未标注尺寸请依图纸。
 - 符合ROHS

深圳得自在科技有限公司					
SHEN ZHEN Be Comfortable CO., LTD					
Third Angle	Project	WB550-NA-00	Date	2022.10.25	
0~10 ±0.05	Part Name	ANT3	Designed by		
10~18 ±0.10	Part No.	NI2-7241-R0A	Checked by	MD	田进
18~30 ±0.12	Material	N/A	Approved by	RF	边博
30~40 ±0.15	DWG No.				
40~	Location	N/A	Unit	mm	Scale

Rev	Description	Date	Remark	5	6	7	8
1	New drawing						



No.	名称	规格	颜色	数量	备注
3	扎带	尼龙扎带	白色	1	
2	射频线	ø1.13mm；一代端子	红色	1	
1	POB	FR4, 单面板	黑色	1	

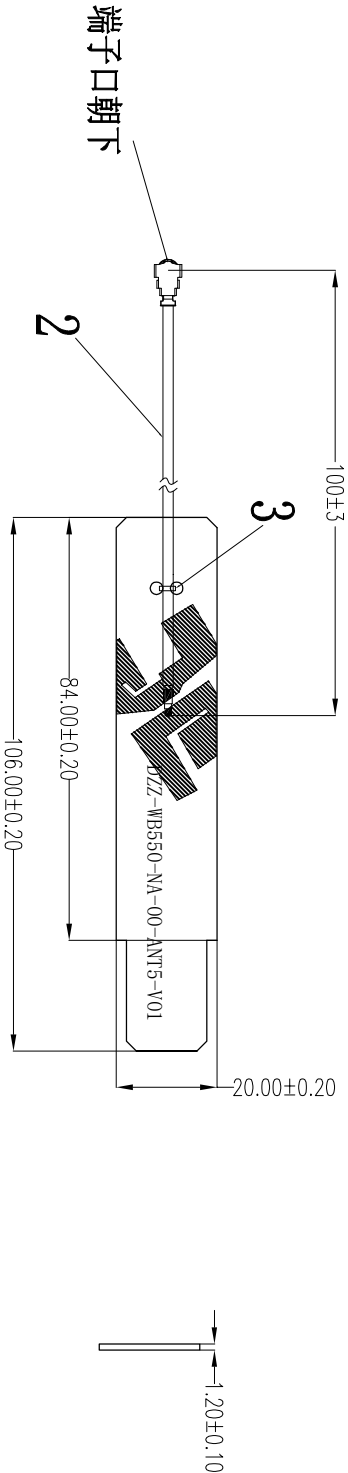
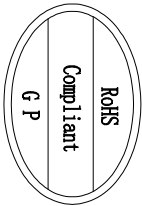
深圳得自在科技有限公司									
SHEN ZHEN Be Comfortable CO., LTD									
		Third angle		Project		WB550-NA-00		Date	
0~10		±0.05		○		0.02		Part Name	
10~18		±0.10		◎		∅ 0.03		Part No.	
18~30		±0.12		┘		0.02		Material	
30~40		±0.15		∇		0.04		N/A	
40~		±0.20		Angle		±0.5°		DWG No.	
Location		N/A						Approved by	
				Unit		mm		Scale	
				1:1		Rev		A	

A	New drawing		
Rev	Description	Date	Remark

备注:

1. 标注“*”为重点尺寸, 未标公差尺寸按照 ± 0.15 检测
2. 未标注尺寸请依图纸。

3. 符合ROHS

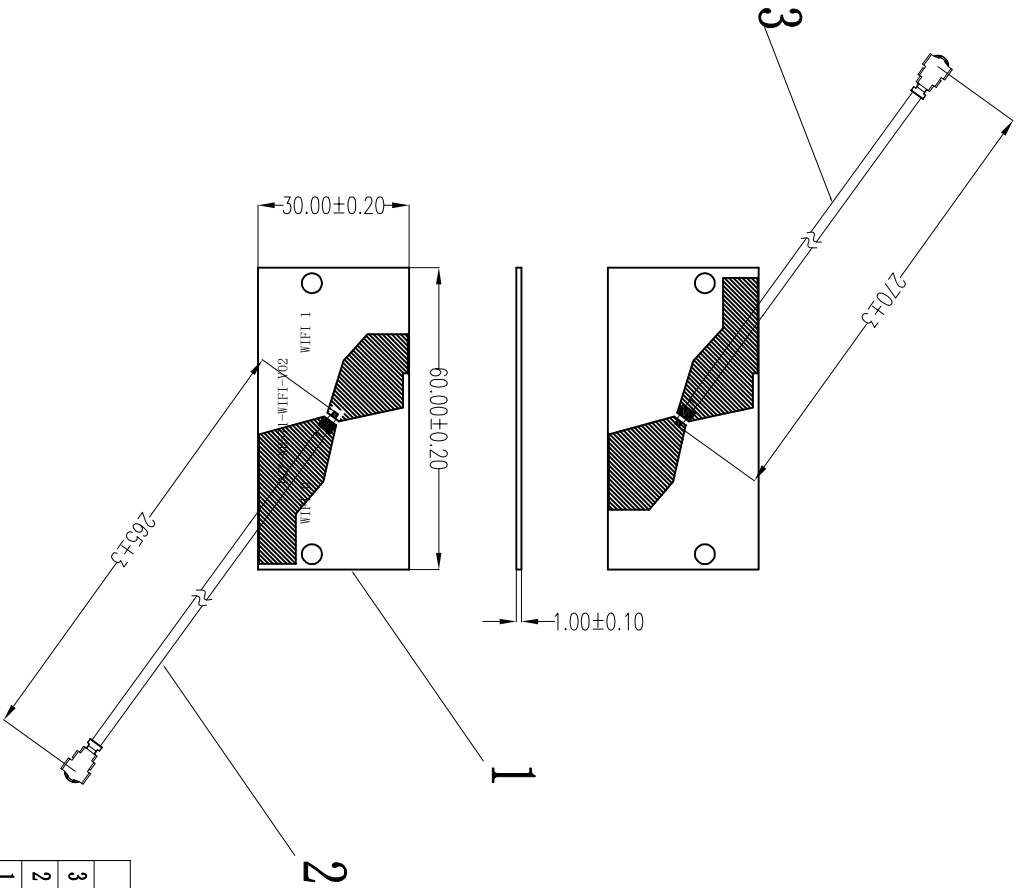
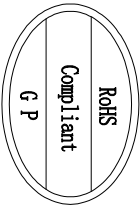


3	扎带	尼龙扎带	白色	1	
2	射频线	φ1.13mm；一代端子	黄色	1	
1	PCB	FR4, 单面板	黑色	1	
No.	名称	规格	颜色	数量	备注

- 备注:
- 标注“*”为重点尺寸, 未标公差尺寸按照±0.15检测
 - 未标注尺寸请依图纸。
 - 符合ROHS

深圳得自在科技有限公司					
SHEN ZHEN Be Comfortable CO., LTD					
Third Angle	Project	WB550-NA-00	Date	2022.10.25	
0~10 ±0.05	Part Name	ANT5	Designed by		
10~18 ±0.10	Part No.	NI2-7243-R0A	Checked by	MD	田进
18~30 ±0.12	Material	N/A	Approved by	RF	边博
30~40 ±0.15	DWG No.				
40~	Location	N/A	Unit	mm	Scale
±0.20	Angle	±0.5°	1:1	Rev	A

Rev	Description	Date	Remark
1	New drawing		



3	射频线	ø1.13mm ; 一代端子	灰色	1	
2	射频线	ø1.13mm ; 一代端子	黑色	1	
1	PCB	FR4, 单面板	黑色	1	
No.	名称	规格	颜色	数量	备注

- 备注:
- 标注“*”为重点尺寸, 未标公差尺寸按照±0.15检测
 - 未标注尺寸请依图纸。
 - 符合ROHS

A	New drawing	Description	Date	Remark	Location			Angle			DWC No.			Unit	mm	Scale	1:1	Rev	A

深圳得自在科技有限公司

SHEN ZHEN Be Comfortable CO., LTD

Project WB550-NA-00 Date 2022.10.25

Part Name WIFI Designed by MD 田进

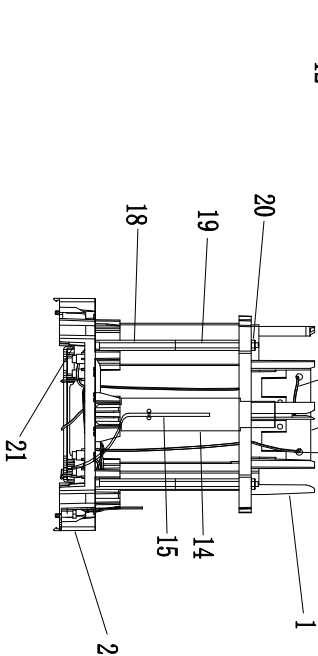
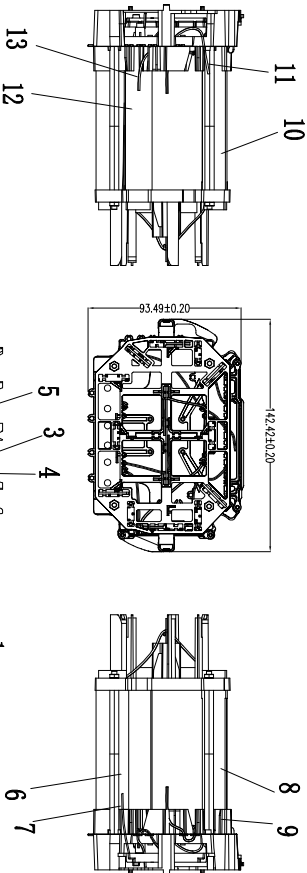
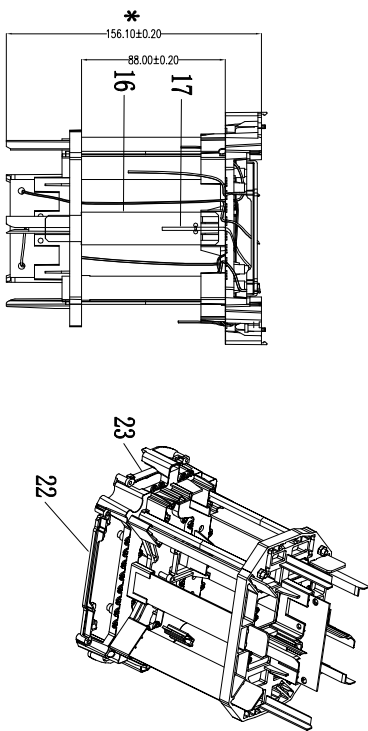
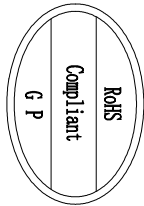
Part No. NI2-7244-RO4 Checked by RF 边博

Material N/A

40~ ±0.20 Angle ±0.5°

Location N/A

53 97 1 2 3 4 5 6 7 8



备注:

1. 标注“*”为重点尺寸, 未标公差尺寸按照±0.15检测
2. 未标注尺寸请依图纸.
3. 符合ROHS

23	模块压紧支架	ABS	白色	1	
22	天线压紧支架	ABS	白色	1	
21	M3*8螺钉	尼龙	白色	4	
20	M3螺母	尼龙	白色	4	
19	M3*49+6)尼龙柱	49mm)尼龙	白色	4	
18	M3*45+6)尼龙柱	45mm)尼龙	白色	4	
17	ANT5射频线	1.13单银线, 一代端子	黄色	1	
16	ANT5	FR4 单面板PCB	黑色	1	
15	ANT4射频线	1.13单银线, 一代端子	红色	1	
14	ANT4	FR4 单面板PCB	黑色	1	
13	ANT3射频线	1.13单银线, 一代端子	蓝色	1	
12	ANT3	FR4 单面板PCB	黑色	1	
11	ANT2射频线	1.13单银线, 一代端子	橙色	1	
10	ANT2	FR4 单面板PCB	黑色	1	
9	ANT1射频线	1.13单银线, 一代端子	白色	1	
8	ANT1	FR4 单面板PCB	黑色	1	
7	ANT0射频线	1.13单银线, 一代端子	绿色	1	
6	ANT0	FR4 单面板PCB	黑色	1	
5	WiFi1射频线	1.13单银线, 一代端子	灰色	1	
4	WiFi10射频线	1.13单银线, 一代端子	黑色	1	
3	WiFi1天线	FR4 双面板PCB	绿色	1	
2	下支架	ABS	白色	1	
1	上支架	ABS	白色	1	

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SHEN ZHEN Be Comfortable CO., LTD

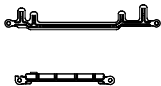
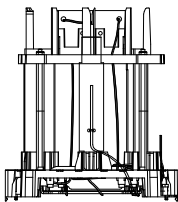
Third Angle		Date		2024.7.2	
Project	PM550-NA	PartName	成品天线	Designed by	
Part No.	NI2-7548-ROA	Material	N/A	Checked by	MD 田进
Material				RF	边博
dwg No.		Approved by		Unit	
Location	N/A			mm	
				Scale	1:1
				Rev	A

Rev	Description	Date	Remark
1	New drawing		
2			
3			
4			

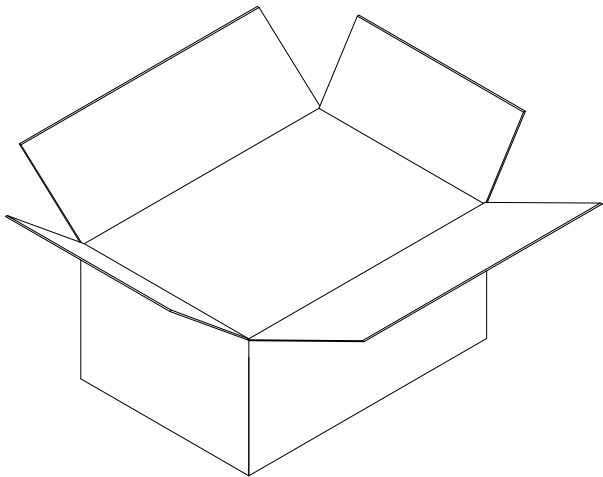
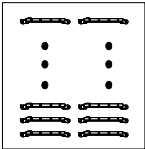
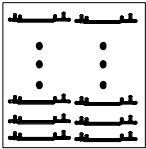
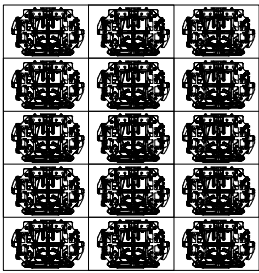
成品名称 : PW550-NA

版本: A

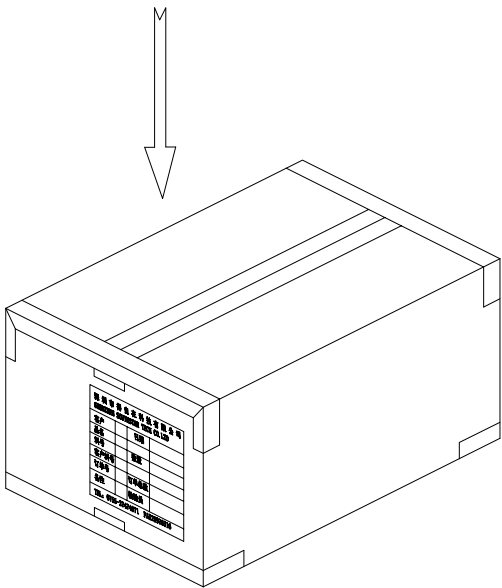
一：成品天线



二：用珍珠棉包装，一层装15pcs，一箱装30pcs；
两个压紧支架分别用PE袋包装，一袋装100；



三：30pcs装一箱，以实际包装为准；



四：封箱, 外箱贴我司生产标签和
ROHS标签.

批准: 郑建秋

确认: 冯惠平

拟制:田进