样 品 承 认 书

SAMPLE SPECIFICATION FOR APPROVAL

供应商名称 SUPPLIER	Sunnyway Technology Co.,Ltd
客户名称 CUSTOMER	Shanghai Guangyi Zhilian Technology Co., LTD
物料名称 DESCRIPTION	FH22
物料规格 SPECIFICATION	Main antenna assembly
物料编码 CUSTOMER PART NO	320300000174
供应商审核(公章) SUPPLIER APPROVAL	
客户审核 CUSTOMER APPROVAL	
承认日期 APPROVAL DATE	25.7.2

Confirm and sign off			
base band	RF	ME	ID
resource	SQE	PQM	

目　录

1、 sample
need ■ ; no need □

2、 Specification sheet, drawings, material report, physical property table, and SOP for fixture inspection
paper archive ■ ; electronic document ■

3、 Appearance Inspection report
paper archive ■ ; electronic document ■

4、dimension report
paper archive ■ ; electronic document ■

5、functional test report
paper archive □ ; electronic document ■

6、Reliability Test Report
paper archive ■ ; electronic document ■

7、Key dimension CPK
paper archive ■ ; electronic document ■

8、Flow chart
paper archive □ ; electronic document ■

9、manner of packing
paper archive ■ ; electronic document ■

10、Environmental protection materials (only electronic files are required)
Material composition questionnaire ■ ; RoHS ■ ; Reach ■ ; HF ■

remark: ■ Provide as needed ; □ It is not necessary to provide

1. Project information

Machine information

Antenna information

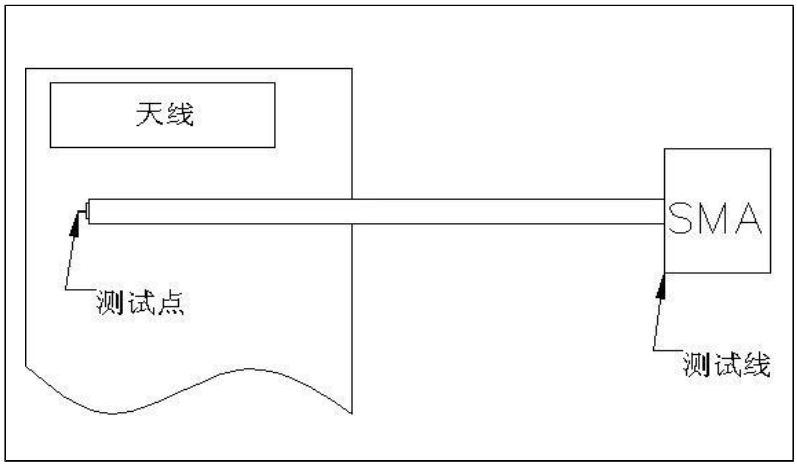
	Version
Antenna	FH22-V0.2
Small Motheboard	FH22_USB_PCB_V1.1
Mainboard	FH22_MB_PCB_V1.1

Note: The customer finally verified that the antenna performance prototype was retained in our company for at least one year, which is convenient for analysis and solution to abnormal situations in antenna mass production.

2. Test fixtures

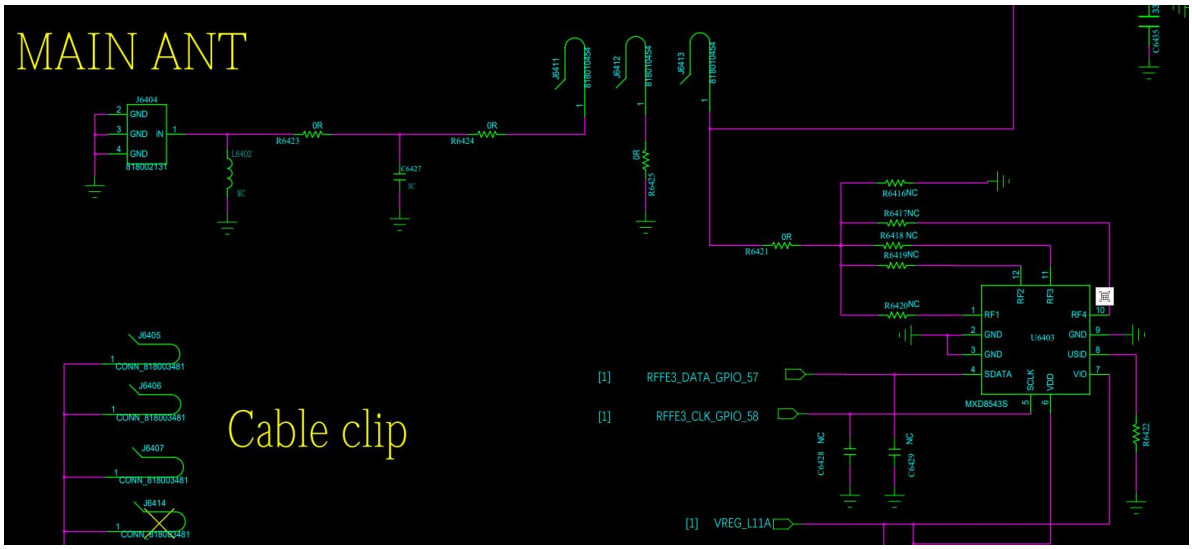
Purpose: To test the passive parameters of the antenna as accurately as possible.

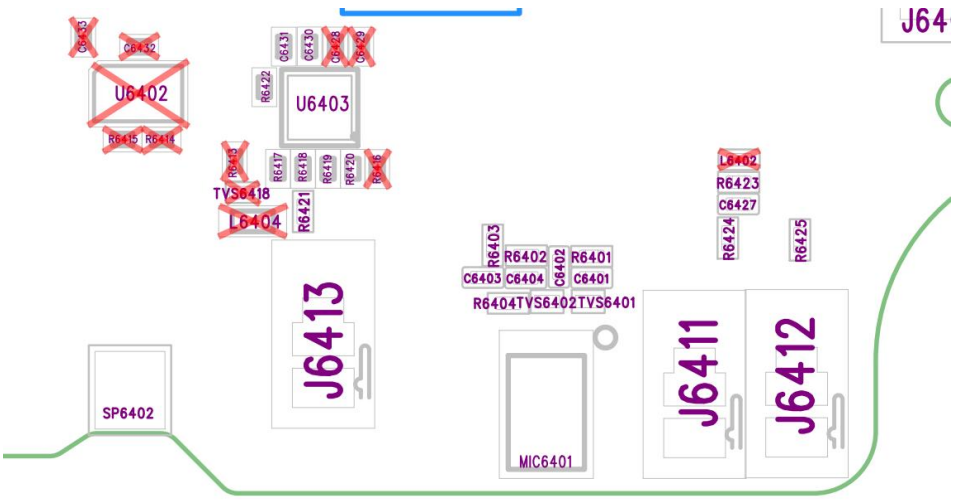
How to make: The prototyping mechanism is made of a 50 ohm coaxial cable, one end is connected to the test point at the back of the matching circuit of the prototype motherboard (the front of the RF test hole), and the other end is connected to the SMA connector. The schematic diagram is as follows:



3. Matching circuits

ANTO antenna



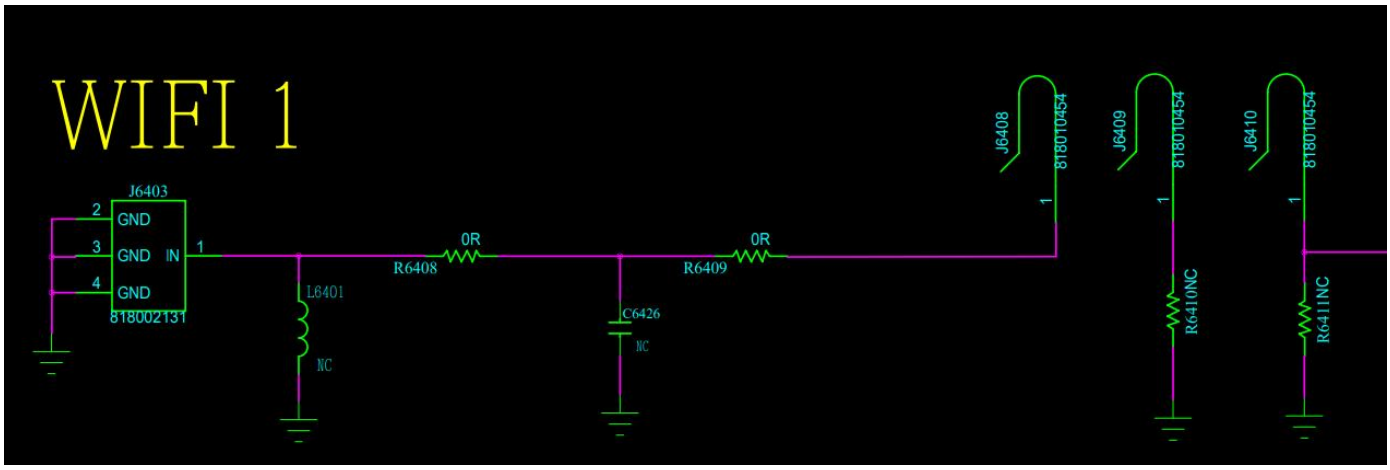


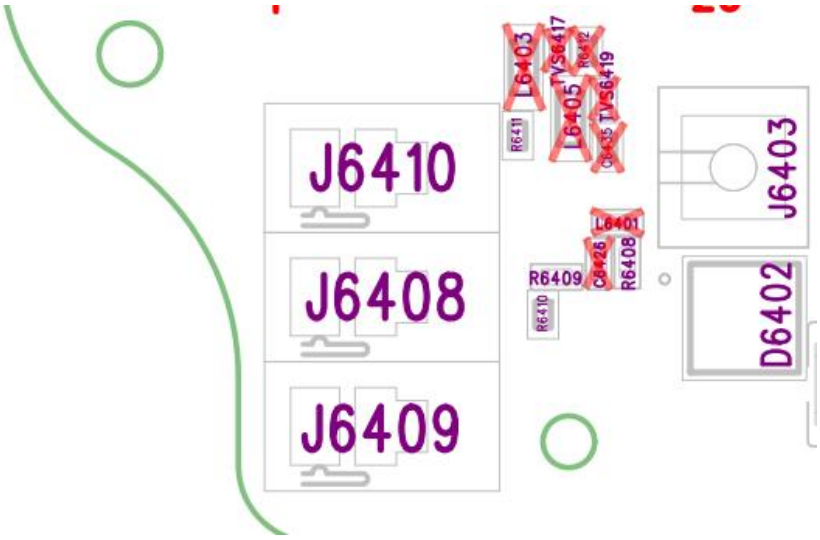
ANT0					
J6413		J6411		J6412	
R6421	0R	R6424	0R	R6425	0R
R6416	NC	C6427	9.1NH		
R6420(RF1)	0R	R6423	0R		
R6419(RF2)	10PF	L6402	NC		
R6418(RF3)	15NH				
R6417(RF4)	9.1NH				

ANT0逻辑

RF1：GSM850/1800/1900 W1/2/5 B1/2/3/4/5/20/39
RF2：GSM900 W8 B8
RF3：B7/12/17/28/38/41
RF4：B14

ANT3 antenna





ANT3					
J6408		J6409		J6410	
R6409	0R	R6410	0R	R6411	0R
C6426	NC				
R6408	0R				
L6401	NC				

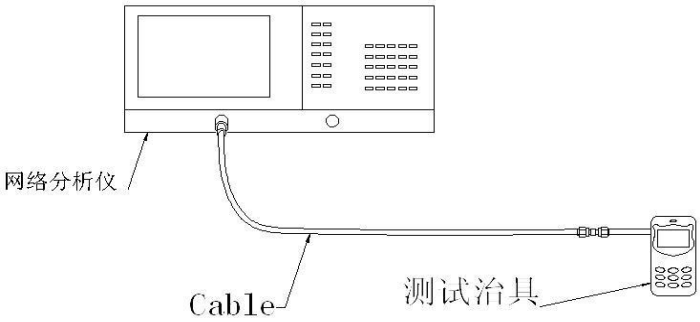
4. S11 test

4.1 S11 Test Method Description

Test Equipment: Network Analyzer (E5071C)

Test method: A 50 ohm CABLE cable is derived from the instrument test port, and the SMA connector of the prototype is connected after calibration using the calibrator to record the return loss and standing wave ratio corresponding to the relevant frequency point.

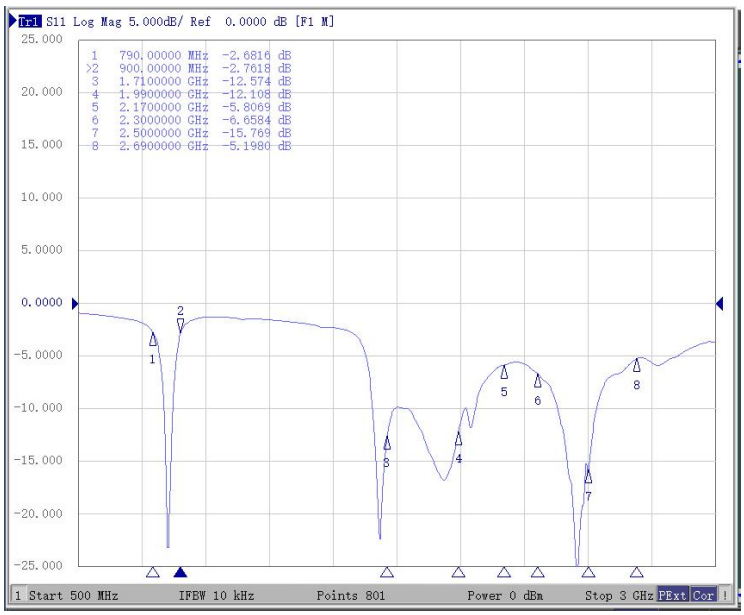
The test diagram is as follows:



Test the schematic

4.2 S11 parameter

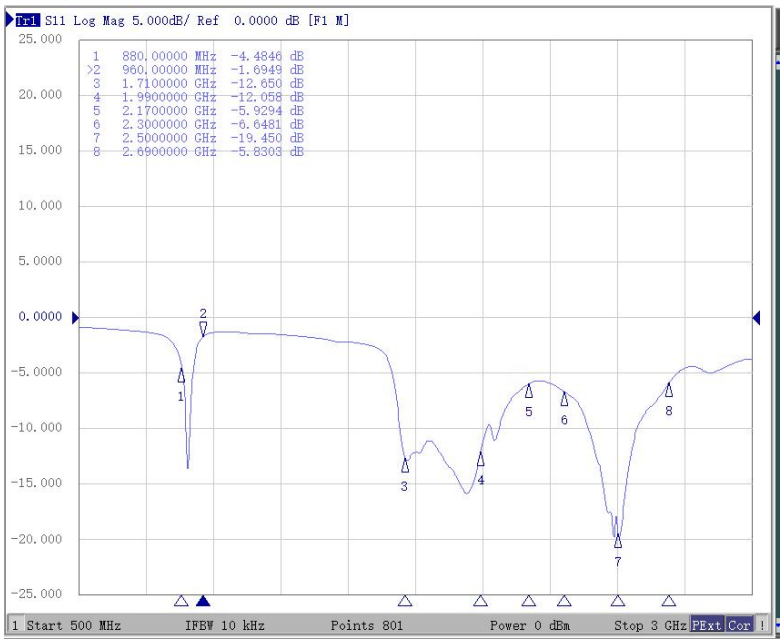
ANT0/RF1



	ANT1antenna
frequency (MHz)	Log Mag
790	-2.68
900	-2.76
1710	-12.57
1990	-12.10
2170	-5.80
2300	-6.65
2500	-15.76
2690	-5.19

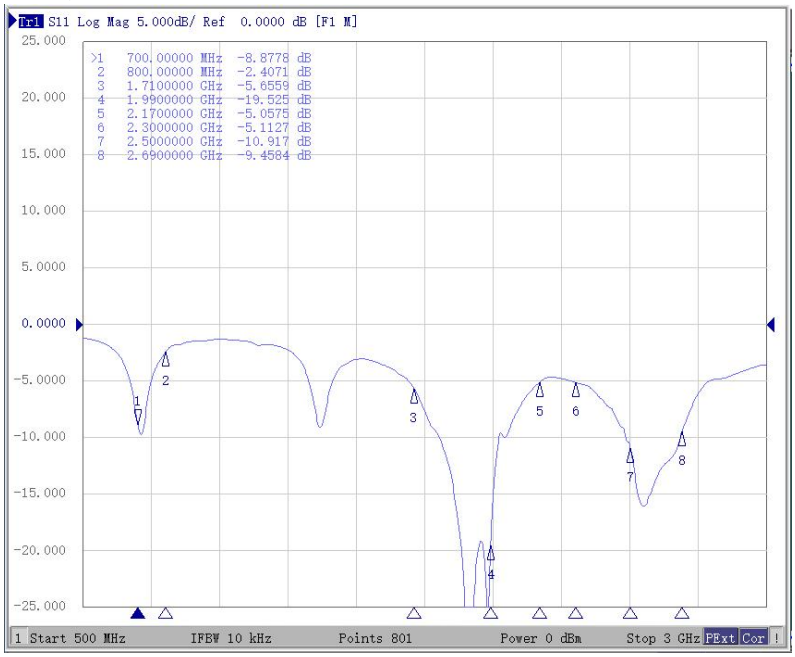
Shanghai Shangyuan Communication Technology Co., Ltd. antenna recognition

ANT0/RF2



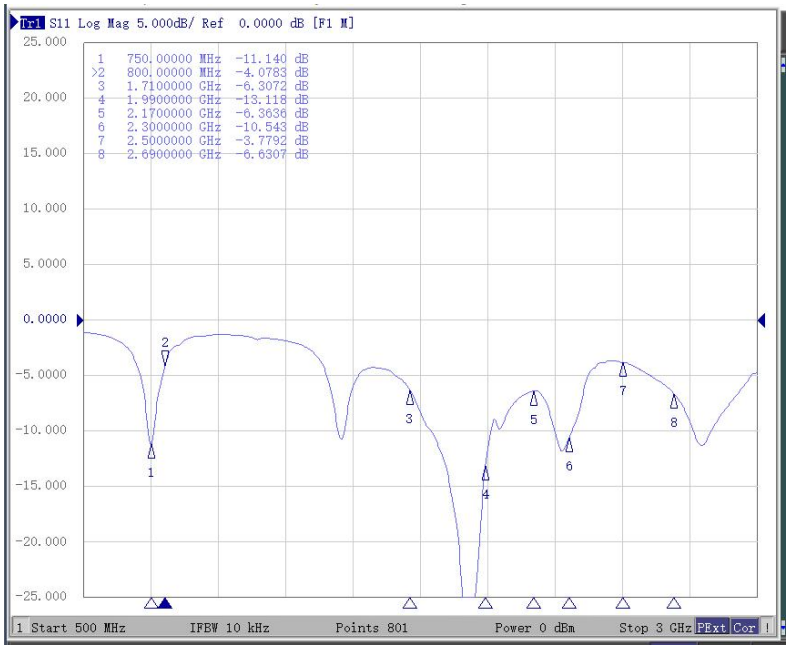
	ANT1antenna
frequency (MHz)	Log Mag
880	-4.48
960	-1.69

ANT0/RF3



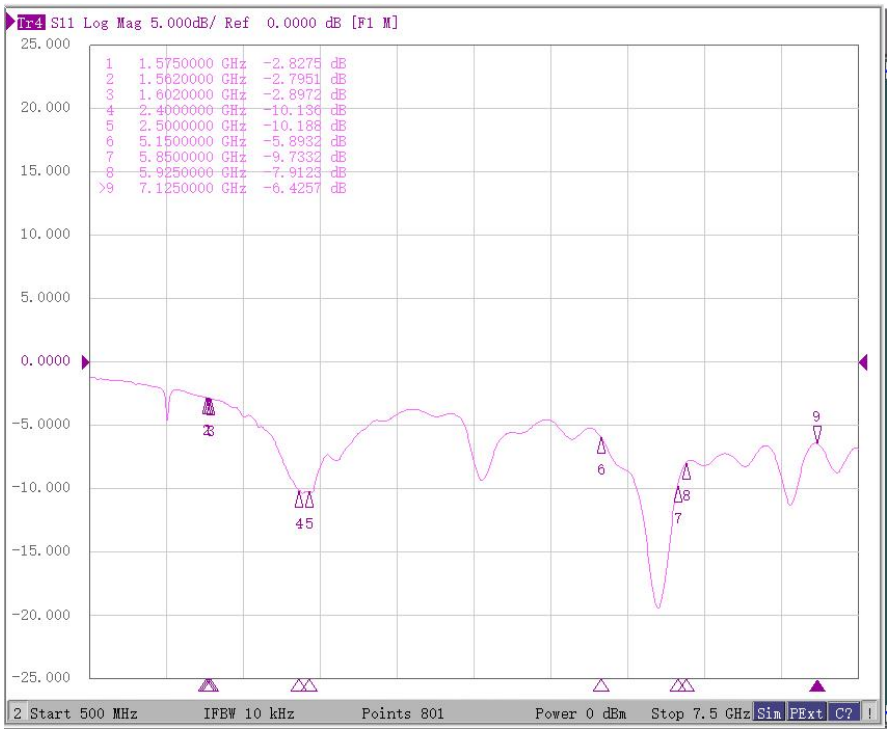
	ANT1antenna
frequency (MHz)	Log Mag
700	-8.87
800	-2.40

ANT0/RF4



	ANT1antenna
frequency (MHz)	Log Mag
750	-11.14
800	-4.07

ANT3



	ANT1antenna
frequency (MHz)	Log Mag
2400	-10.12
2500	-10.18
5150	-5.89
5850	-9.73
5925	-7.91
7125	-6.42

5.1 Passive test data

ANT0-RF1 efficiency

Freq.	Effi	Effi	peak Gain	Freq.	Effi	Effi	peak Gain
(MHz)	(dB)	(%)	(dB)	(MHz)	(dB)	(%)	(dB)
700	-17.25	1.88	-14.45	2010	-4.36	36.64	0.49
710	-16.95	2.02	-14.06	2020	-4.76	33.42	-0.40
720	-16.70	2.14	-13.78	2030	-4.52	35.32	-0.55
730	-16.36	2.31	-13.08	2040	-3.89	40.83	0.52
740	-15.74	2.67	-12.56	2050	-3.70	42.66	0.77
750	-15.06	3.12	-11.74	2060	-3.79	41.78	0.70
760	-14.45	3.59	-11.30	2070	-3.93	40.46	0.32
770	-13.42	4.55	-10.31	2080	-4.05	39.36	0.33
780	-12.35	5.82	-9.35	2090	-4.09	38.99	0.22
790	-11.33	7.36	-4.79	2100	-4.02	39.63	0.47
800	-10.19	9.57	-6.79	2110	-4.04	39.45	0.67
810	-9.07	12.39	-5.23	2120	-4.11	38.82	0.93
820	-7.89	16.26	-4.11	2130	-4.10	38.90	1.08
830	-6.83	20.75	-2.93	2140	-4.11	38.82	1.25
840	-6.32	23.33	-2.26	2150	-4.03	39.54	1.30
850	-6.28	23.55	-1.94	2160	-4.04	39.45	1.23
860	-5.59	27.61	-1.01	2170	-4.10	38.90	-1.32
870	-5.43	28.64	-1.24	2300	-4.86	32.66	0.77
880	-6.04	24.89	-2.11	2310	-4.76	33.42	0.32
890	-7.34	18.45	-3.66	2320	-4.58	34.83	0.56
900	-8.81	13.15	-6.09	2330	-4.47	35.73	0.82
910	-10.24	9.46	-6.88	2340	-4.51	35.40	0.84
920	-11.45	7.16	-7.42	2350	-4.45	35.89	0.77
930	-11.47	7.13	-7.65	2360	-4.29	37.24	0.76
940	-12.09	6.18	-7.80	2370	-4.18	38.19	0.71
950	-12.73	5.33	-8.54	2380	-3.97	40.09	0.92
960	-13.28	4.70	-9.39	2390	-3.87	41.02	0.99
1700	-3.42	45.50	0.47	2400	-3.72	42.46	1.68
1710	-3.30	46.77	-0.28	2410	-3.67	42.95	0.34
1720	-3.21	47.75	0.27	2420	-3.63	43.35	0.53
1730	-3.10	48.98	0.41	2430	-3.62	43.45	0.62
1740	-3.00	50.12	0.63	2440	-3.61	43.55	1.08
1750	-2.94	50.82	0.88	2450	-3.49	44.77	1.10
1760	-3.01	50.00	1.04	2460	-3.62	43.45	1.34
1770	-3.18	48.08	0.88	2470	-3.57	43.95	1.38
1780	-3.13	48.64	1.05	2480	-3.60	43.65	0.96
1790	-3.05	49.55	1.04	2490	-3.76	42.07	0.76
1800	-2.99	50.23	1.30	2500	-3.75	42.17	2.91
1810	-2.89	51.40	1.53	2510	-4.07	39.17	2.01
1820	-2.88	51.52	1.79	2520	-4.57	34.91	1.43
1830	-2.89	51.40	1.73	2530	-4.82	32.96	1.23
1840	-2.98	50.35	1.64	2540	-5.11	30.83	0.96
1850	-3.07	49.32	1.66	2550	-5.18	30.34	0.65
1860	-3.13	48.64	1.66	2560	-5.37	29.04	0.30
1870	-3.29	46.88	1.64	2570	-5.79	26.36	-0.01
1880	-3.14	48.53	1.61	2580	-6.02	25.00	-0.29
1890	-3.24	47.42	1.77	2590	-6.24	23.77	-0.59
1900	-3.21	47.75	1.95	2600	-6.27	23.60	-0.49
1910	-3.29	46.88	2.26	2610	-6.26	23.66	-0.47
1920	-3.31	46.67	2.12	2620	-6.15	24.27	-0.11
1930	-3.23	47.53	1.94	2630	-6.24	23.77	-0.07
1940	-3.28	46.99	1.93	2640	-6.55	22.13	-0.27
1950	-3.19	47.97	1.87	2650	-7.06	19.68	-0.83
1960	-3.20	47.86	2.02	2660	-7.45	17.99	-1.35
1970	-3.16	48.31	2.17	2670	-7.86	16.37	-1.90
1980	-3.26	47.21	2.16	2680	-7.12	19.41	-1.70
1990	-3.56	44.06	1.88	2690	-7.46	17.95	-1.66
2000	-3.93	40.46	1.32	2700	-7.68	17.06	-2.54

5.1 Passive test data

ANT0-RF2 efficiency

Freq.	Effi	Effi	peak Gain	Freq.	Effi	Effi	peak Gain
(MHz)	(dB)	(%)	(dB)	(MHz)	(dB)	(%)	(dB)
700	-25.28	0.30	-22.52	2010	-4.01	39.72	1.97
710	-24.79	0.33	-22.07	2020	-4.58	34.83	0.99
720	-24.42	0.36	-21.74	2030	-4.86	32.66	0.59
730	-24.05	0.39	-21.09	2040	-4.38	36.48	1.46
740	-23.45	0.45	-20.77	2050	-4.03	39.54	1.90
750	-22.88	0.52	-20.23	2060	-4.00	39.81	1.86
760	-22.31	0.59	-19.78	2070	-4.05	39.36	1.54
770	-21.48	0.71	-18.83	2080	-4.16	38.37	1.50
780	-20.72	0.85	-18.03	2090	-4.25	37.58	1.36
790	-20.01	1.00	-17.08	2100	-4.28	37.33	1.45
800	-19.12	1.22	-16.11	2110	-4.42	36.14	1.40
810	-18.12	1.54	-14.69	2120	-4.58	34.83	1.43
820	-17.03	1.98	-13.28	2130	-4.63	34.43	1.23
830	-15.96	2.54	-11.98	2140	-4.65	34.28	1.16
840	-14.90	3.24	-10.61	2150	-4.56	34.99	1.22
850	-13.78	4.19	-8.83	2160	-4.54	35.16	1.31
860	-12.33	5.85	-6.94	2170	-4.60	34.67	1.43
870	-10.30	9.33	-5.05	2300	-5.32	29.38	1.45
880	-8.34	14.66	-4.56	2310	-5.19	30.27	1.57
890	-6.83	20.75	-2.22	2320	-5.00	31.62	1.79
900	-5.71	26.85	-1.56	2330	-4.86	32.66	1.83
910	-5.85	26.00	-2.00	2340	-4.84	32.81	1.85
920	-7.65	17.18	-3.69	2350	-4.71	33.81	1.99
930	-7.82	16.52	-3.61	2360	-4.49	35.56	2.25
940	-9.21	11.99	-4.45	2370	-4.31	37.07	2.43
950	-10.54	8.83	-5.64	2380	-4.03	39.54	2.80
960	-11.65	6.84	-7.83	2390	-3.84	41.30	3.08
1700	-4.64	34.36	-0.49	2400	-3.67	42.95	2.50
1710	-3.97	40.09	0.30	2410	-3.54	44.26	2.55
1720	-3.59	43.75	0.79	2420	-3.40	45.71	2.73
1730	-3.35	46.24	1.19	2430	-3.30	46.77	2.82
1740	-3.19	47.97	1.51	2440	-3.24	47.42	2.72
1750	-3.13	48.64	1.64	2450	-3.04	49.66	2.29
1760	-3.24	47.42	1.54	2460	-3.10	48.98	2.06
1770	-3.46	45.08	1.29	2470	-3.00	50.12	2.32
1780	-3.45	45.19	1.38	2480	-2.96	50.58	2.93
1790	-3.36	46.13	1.52	2490	-2.96	50.58	3.23
1800	-3.34	46.34	1.74	2500	-3.01	50.00	2.87
1810	-3.23	47.53	1.98	2510	-3.12	48.75	4.00
1820	-3.16	48.31	2.16	2520	-3.38	45.92	3.92
1830	-3.11	48.87	2.17	2530	-3.42	45.50	4.08
1840	-3.11	48.87	2.23	2540	-3.55	44.16	4.22
1850	-3.18	48.08	2.35	2550	-3.54	44.26	4.38
1860	-3.23	47.53	2.41	2560	-3.69	42.76	4.27
1870	-3.40	45.71	2.38	2570	-4.05	39.36	4.00
1880	-3.25	47.32	2.37	2580	-4.25	37.58	3.90
1890	-3.30	46.77	2.68	2590	-4.48	35.65	3.84
1900	-3.24	47.42	2.88	2600	-4.58	34.83	3.72
1910	-3.23	47.53	3.41	2610	-4.61	34.59	3.68
1920	-3.17	48.19	3.46	2620	-4.52	35.32	3.59
1930	-3.02	49.89	3.65	2630	-4.52	35.32	3.29
1940	-3.04	49.66	3.77	2640	-4.70	33.88	2.81
1950	-2.96	50.58	3.83	2650	-5.00	31.62	2.33
1960	-3.01	50.00	3.89	2660	-5.21	30.13	2.02
1970	-2.95	50.70	3.96	2670	-5.50	28.18	1.63
1980	-3.02	49.89	3.82	2680	-4.69	33.96	1.83
1990	-3.26	47.21	3.49	2690	-5.03	31.41	1.30
2000	-3.58	43.85	2.83	2700	-5.29	29.58	0.80

5.1 Passive test data

ANT0-RF3 efficiency

Freq.	Effi	Effi	peak Gain	Freq.	Effi	Effi	peak Gain
(MHz)	(dB)	(%)	(dB)	(MHz)	(dB)	(%)	(dB)
700	-6.43	22.75	-4.57	2010	-4.57	34.91	0.39
710	-6.10	24.55	-2.64	2020	-4.78	33.27	-0.18
720	-6.13	24.38	-2.67	2030	-4.60	34.67	-0.42
730	-6.35	23.17	-2.54	2040	-3.96	40.18	0.60
740	-6.60	21.88	-2.86	2050	-3.73	42.36	0.81
750	-7.03	19.82	-3.17	2060	-3.83	41.40	0.79
760	-7.67	17.10	-3.96	2070	-3.98	39.99	0.36
770	-7.96	16.00	-4.42	2080	-4.10	38.90	0.38
780	-8.59	13.84	-5.26	2090	-4.16	38.37	0.19
790	-9.12	12.25	-5.53	2100	-4.11	38.82	0.38
800	-9.73	10.64	-6.48	2110	-4.16	38.37	0.47
810	-10.54	8.83	-6.37	2120	-4.27	37.41	0.72
820	-11.16	7.66	-6.98	2130	-4.31	37.07	0.78
830	-11.84	6.55	-7.52	2140	-4.36	36.64	0.89
840	-12.18	6.05	-7.63	2150	-4.33	36.90	0.90
850	-12.48	5.65	-7.57	2160	-4.39	36.39	0.80
860	-12.38	5.78	-7.45	2170	-4.50	35.48	0.58
870	-12.63	5.46	-8.21	2300	-6.21	23.93	-1.04
880	-13.00	5.01	-8.92	2310	-6.12	24.43	-1.04
890	-13.45	4.52	-9.52	2320	-5.96	25.35	-0.89
900	-14.01	3.97	-10.28	2330	-5.85	26.00	-0.75
910	-14.71	3.38	-11.24	2340	-5.90	25.70	-0.68
920	-15.49	2.82	-11.16	2350	-5.84	26.06	-0.66
930	-14.66	3.42	-10.67	2360	-5.72	26.79	-0.58
940	-14.72	3.37	-10.28	2370	-5.63	27.35	-0.61
950	-14.83	3.29	-10.52	2380	-5.44	28.58	-0.53
960	-14.93	3.21	-10.91	2390	-5.28	29.65	-0.61
1700	-5.55	27.86	-0.38	2400	-5.07	31.12	-0.92
1710	-5.23	29.99	-0.34	2410	-5.02	31.48	-0.93
1720	-4.91	32.28	-0.32	2420	-4.93	32.14	-0.93
1730	-4.57	34.91	-0.06	2430	-4.76	33.42	-0.60
1740	-4.24	37.67	0.26	2440	-4.75	33.50	-0.44
1750	-3.93	40.46	0.70	2450	-4.58	34.83	-0.89
1760	-3.81	41.59	0.99	2460	-4.62	34.51	-0.65
1770	-3.84	41.30	1.01	2470	-4.40	36.31	-0.01
1780	-3.68	42.85	1.29	2480	-4.22	37.84	-0.48
1790	-3.46	45.08	1.40	2490	-4.06	39.26	-0.22
1800	-3.26	47.21	1.77	2500	-4.06	39.26	-0.15
1810	-3.04	49.66	2.10	2510	-4.01	39.72	0.95
1820	-2.91	51.17	2.47	2520	-4.08	39.08	0.85
1830	-2.81	52.36	2.48	2530	-3.86	41.11	1.10
1840	-2.84	52.00	2.43	2540	-3.70	42.66	1.51
1850	-2.87	51.64	2.50	2550	-3.35	46.24	2.05
1860	-2.89	51.40	2.54	2560	-3.19	47.97	2.30
1870	-3.00	50.12	2.51	2570	-3.31	46.67	2.20
1880	-2.84	52.00	2.47	2580	-3.36	46.13	2.29
1890	-2.94	50.82	2.58	2590	-3.47	44.98	2.32
1900	-2.92	51.05	2.74	2600	-3.44	45.29	2.56
1910	-3.01	50.00	3.03	2610	-3.41	45.60	2.71
1920	-3.09	49.09	2.85	2620	-3.27	47.10	2.83
1930	-3.10	48.98	2.70	2630	-3.21	47.75	2.75
1940	-3.28	46.99	2.64	2640	-3.28	46.99	2.60
1950	-3.42	45.50	2.42	2650	-3.51	44.57	2.21
1960	-3.82	41.50	2.19	2660	-3.64	43.25	1.92
1970	-4.25	37.58	1.72	2670	-3.84	41.30	1.45
1980	-4.55	35.08	1.40	2680	-2.87	51.64	1.92
1990	-4.55	35.08	1.25	2690	-3.05	49.55	1.65
2000	-4.48	35.65	1.03	2700	-3.18	48.08	1.63

5.1 Passive test data

ANT0-RF4 efficiency

Freq.	Effi	Effi	peak Gain	Freq.	Effi	Effi	peak Gain
(MHz)	(dB)	(%)	(dB)	(MHz)	(dB)	(%)	(dB)
700	-9.11	12.27	-5.90	2010	-4.61	34.59	0.20
710	-8.64	13.68	-5.36	2020	-4.88	32.51	-0.66
720	-7.88	16.29	-4.58	2030	-4.59	34.75	-0.74
730	-7.46	17.95	-3.80	2040	-3.97	40.09	0.36
740	-6.81	20.84	-3.27	2050	-3.77	41.98	0.62
750	-6.20	23.99	-6.24	2060	-3.87	41.02	0.63
760	-6.14	24.32	-2.60	2070	-3.99	39.90	0.24
770	-6.01	25.06	-2.61	2080	-4.09	38.99	0.26
780	-6.19	24.04	-2.90	2090	-4.11	38.82	0.06
790	-6.76	21.09	-3.19	2100	-4.03	39.54	0.32
800	-7.46	17.95	-5.79	2110	-4.04	39.45	0.48
810	-8.32	14.72	-4.21	2120	-4.09	38.99	0.80
820	-9.19	12.05	-5.10	2130	-4.07	39.17	0.85
830	-9.87	10.30	-5.66	2140	-4.06	39.26	0.98
840	-10.56	8.79	-6.12	2150	-3.97	40.09	1.08
850	-10.98	7.98	-6.18	2160	-3.97	40.09	1.02
860	-10.92	8.09	-6.03	2170	-4.01	39.72	0.86
870	-11.21	7.57	-6.74	2300	-6.01	25.06	-1.43
880	-11.74	6.70	-7.59	2310	-6.27	23.60	-1.63
890	-12.50	5.62	-8.63	2320	-6.52	22.28	-1.62
900	-13.22	4.76	-9.53	2330	-6.93	20.28	-1.54
910	-14.03	3.95	-10.59	2340	-7.74	16.83	-1.82
920	-14.90	3.24	-10.72	2350	-8.64	13.68	-2.26
930	-14.16	3.84	-10.42	2360	-9.53	11.14	-2.95
940	-14.33	3.69	-10.14	2370	-10.16	9.64	-3.70
950	-14.56	3.50	-10.49	2380	-10.22	9.51	-4.24
960	-14.75	3.35	-10.98	2390	-9.91	10.21	-4.55
1700	-4.89	32.43	-0.46	2400	-10.21	9.53	-5.30
1710	-4.62	34.51	-0.52	2410	-10.35	9.23	-5.78
1720	-4.36	36.64	-0.60	2420	-9.88	10.28	-5.80
1730	-4.09	38.99	-0.44	2430	-9.61	10.94	-5.41
1740	-3.82	41.50	-0.16	2440	-10.08	9.82	-5.82
1750	-3.58	43.85	0.22	2450	-9.84	10.38	-6.19
1760	-3.51	44.57	0.44	2460	-9.64	10.86	-6.04
1770	-3.58	43.85	0.39	2470	-9.21	11.99	-5.16
1780	-3.46	45.08	0.64	2480	-9.24	11.91	-5.25
1790	-3.27	47.10	0.75	2490	-8.88	12.94	-4.85
1800	-3.11	48.87	1.05	2500	-9.20	12.02	-5.50
1810	-2.92	51.05	1.33	2510	-9.03	12.50	-4.33
1820	-2.83	52.12	1.69	2520	-8.99	12.62	-4.45
1830	-2.77	52.84	1.70	2530	-8.75	13.34	-4.19
1840	-2.83	52.12	1.66	2540	-8.51	14.09	-3.97
1850	-2.89	51.40	1.75	2550	-8.09	15.52	-3.50
1860	-2.94	50.82	1.76	2560	-7.81	16.56	-3.11
1870	-3.08	49.20	1.72	2570	-7.82	16.52	-3.10
1880	-2.95	50.70	1.69	2580	-7.73	16.87	-3.03
1890	-3.08	49.20	1.82	2590	-7.66	17.14	-3.06
1900	-3.10	48.98	1.98	2600	-7.43	18.07	-2.94
1910	-3.24	47.42	2.26	2610	-7.27	18.75	-2.91
1920	-3.37	46.03	2.03	2620	-6.93	20.28	-2.61
1930	-3.43	45.39	1.80	2630	-6.61	21.83	-2.35
1940	-3.67	42.95	1.68	2640	-6.37	23.07	-2.13
1950	-3.81	41.59	1.42	2650	-6.30	23.44	-1.86
1960	-4.01	39.72	1.36	2660	-6.14	24.32	-1.55
1970	-4.01	39.72	1.38	2670	-5.99	25.18	-1.19
1980	-3.99	39.90	1.50	2680	-4.67	34.12	-0.27
1990	-4.11	38.82	1.36	2690	-4.46	35.81	0.03
2000	-4.31	37.07	0.94	2700	-4.17	38.28	0.50

ANT3

Freq. (MHz)	Effi (dB)	Effi (%)	peak Gain (dB)	Freq. (MHz)	Effi (dB)	Effi (%)	peak Gain (dB)
2400	-3.94	40.36	-1.96	5150	-7.68	17.06	-2.87
2410	-4.10	38.90	-2.42	5200	-6.70	21.38	-1.78
2420	-4.02	39.63	-2.01	5250	-6.26	23.66	-2.24
2430	-3.94	40.36	-1.23	5300	-5.92	25.59	-2.02
2440	-4.04	39.45	-1.74	5350	-5.25	29.85	-1.87
2450	-4.03	39.54	-1.22	5400	-5.05	31.26	-1.62
2460	-4.13	38.64	-0.84	5450	-4.65	34.28	-0.62
2470	-3.81	41.59	-0.9	5500	-4.24	37.67	0.7
2480	-3.83	41.40	-0.66	5550	-4.23	37.76	0.95
2490	-3.82	41.50	-0.59	5600	-4.01	39.72	0.96
2500	-3.90	40.74	-0.44	5650	-3.73	42.36	0.15
				5700	-3.92	40.55	-0.59
				5750	-4.03	39.54	-1.14
				5800	-4.17	38.28	-1.54
				5850	-4.54	35.16	-2.14
				5900	-5.25	29.85	-2.5
				5950	-5.37	29.04	0.07
				6000	-5.43	28.64	0.45
				6050	-5.30	29.51	0.85
				6100	-5.33	29.31	1.32
				6150	-5.54	27.93	-1.97
				6200	-5.87	25.88	0.57
				6250	-6.20	23.99	0.17
				6300	-6.46	22.59	-0.11
				6350	-6.42	22.80	0.28
				6400	-6.13	24.38	0.54
				6450	-6.11	24.49	1.05
				6500	-5.91	25.64	-0.62
				6550	-6.45	22.65	0.54
				6600	-6.68	21.48	-0.03
				6650	-7.06	19.68	-1.22
				6700	-7.07	19.63	-1.77
				6750	-6.87	20.56	-2.20
				6800	-6.63	21.73	-1.95
				6850	-6.02	25.00	-1.53
				6900	-6.33	23.28	-1.76
				6950	-6.60	21.88	-1.19
				7000	-7.33	18.49	-1.93
				7050	-8.09	15.52	-2.25
				7100	-8.21	15.10	-2.29
				7150	-8.22	15.07	-3.1

5.2 Active test data

ANT0 Active test data (Free space, Bright screen)

Band	OTA(dBm)	
	TRP	TIS
850	27.47	
	27.33	
	26.13	-101.68
900	25.19	
	26.43	
	24.52	-99.84
1800	23.36	
	23.64	
	25.43	-106.59
1900	24.43	
	23.45	
	23.88	-106.28
WCDMA_B1	20.40	
	20.79	
	20.81	-107.51
WCDMA_B2	18.70	
	18.21	
	19.24	-107.55
WCDMA_B5	17.56	
	17.64	
	17.24	-106.13
WCDMA_B8	16.87	
	18.43	
	15.93	-103.13

Band	OTA(dBm)	
	TRP	TIS
FDD_B1	20.87	
	20.57	
	20.99	-94.80
FDD_B2	19.11	
	20.15	
	19.21	-97.46
FDD_B3	19.03	
	20.21	
	19.26	-96.67
FDD_B4	20.23	
	19.58	
	20.27	-94.58
FDD_B5	16.88	
	17.22	
	16.05	-93.67
FDD_B7	20.07	
	20.72	
	21.44	-95.10
FDD_B8	15.40	
	17.38	
	15.81	-90.75
FDD_B12	17.83	
	18.04	
	17.88	-92.97
FDD_B14		
	15.74	-91.75
FDD_B17	16.75	
	17.90	
	17.75	-93.02
FDD_B20	16.72	
	16.95	
	16.57	-92.68
FDD_B28	17.56	
	17.25	
	16.27	-91.07
TDD_B38 (20MHz)	21.05	
	21.26	
	21.05	-90.68
TDD_B39 (20MHz)	20.19	
	20.38	
	19.78	-92.84
TDD_B41 (20MHz)	19.68	
	21.45	
	20.88	-90.19

ANT3 Active test data (Free space, Bright screen)

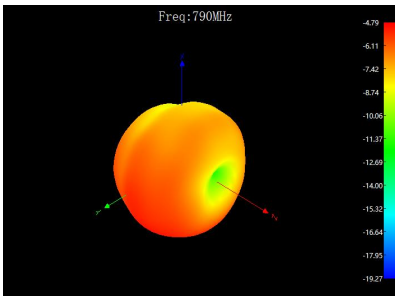
Band	OTA(dBm)		
	CH	TRP	TIS
WiFi-A	36	20.09	
	149	21.21	
	165	21.55	-73.51
WiFi-B	1	13.71	
	6	11.84	
	11	13.06	-82.96

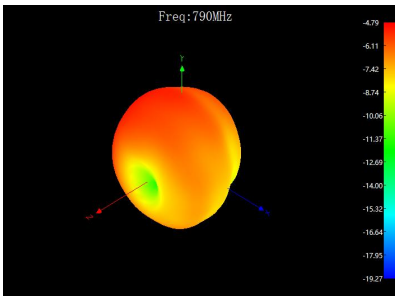
ANT2+ANT3 Coupler Active test data (Free space, Bright screen)

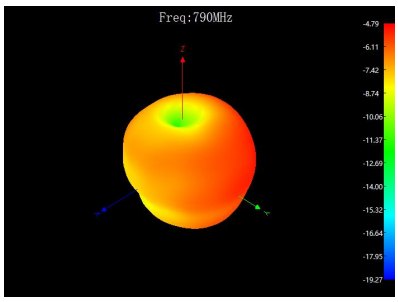
Band	OTA(dBm)		
	CH	TRP	TIS
WiFi-A	36	20.90	
	149	23.75	
	165	24.04	-74.64
WiFi-B	1	16.64	
	6	15.59	
	11	16.47	-83.05
GPS	-148.62		

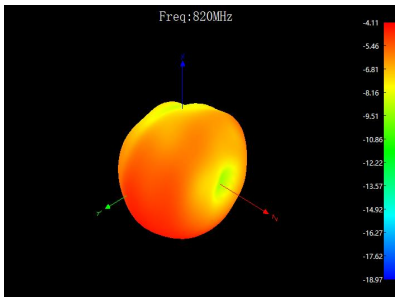
5.3 3D diagram

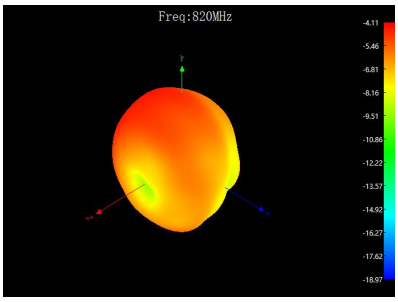
ANTO-RF1

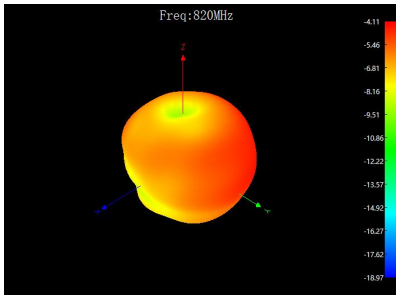


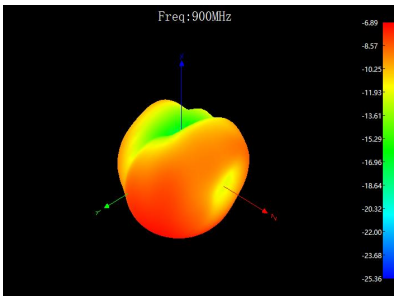


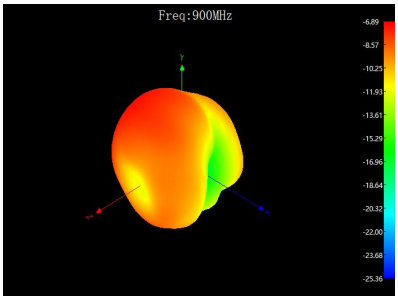


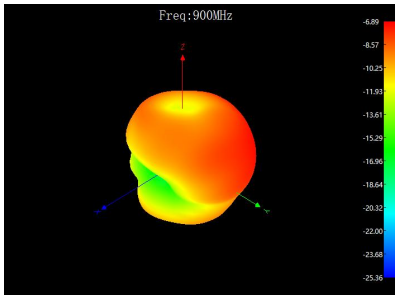


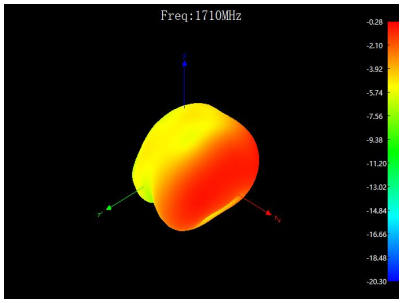


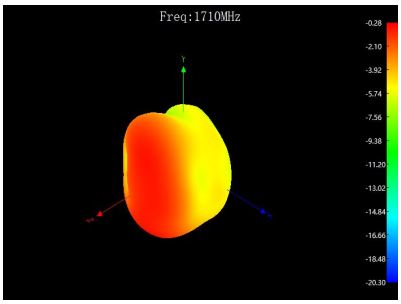


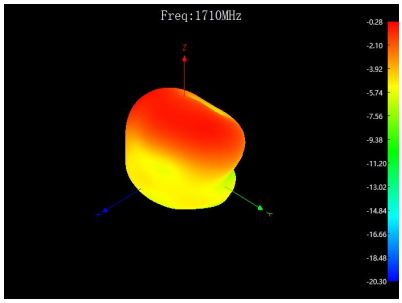


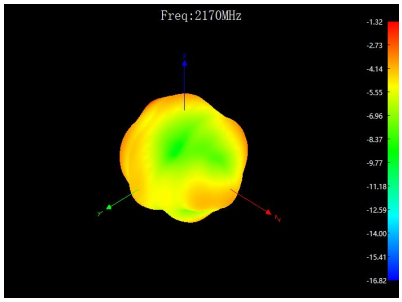


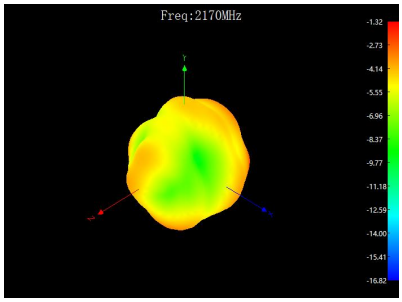


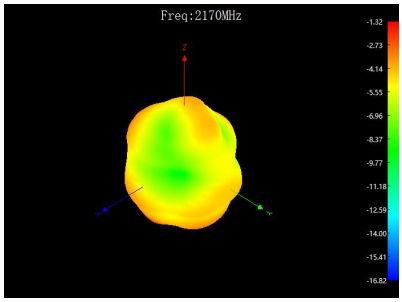












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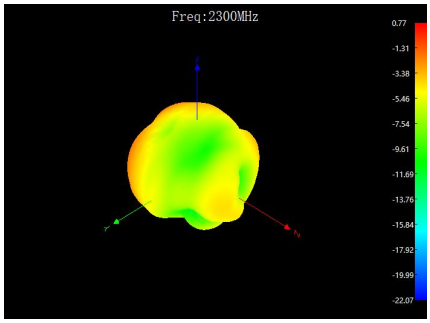

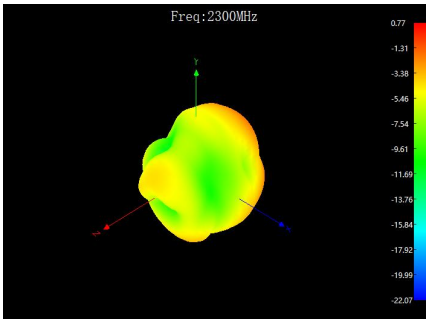

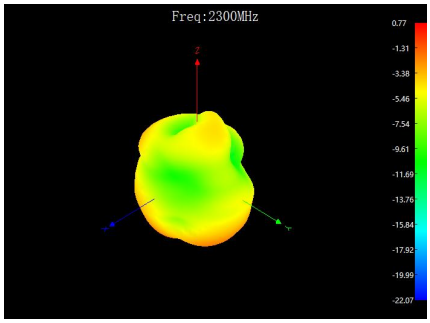

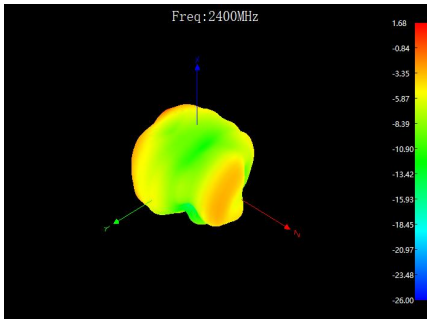

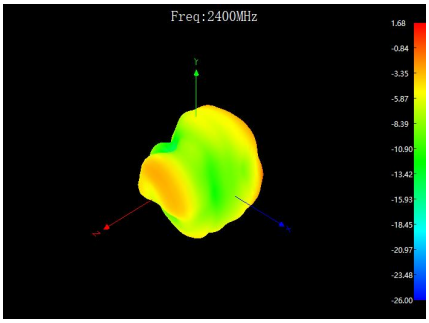

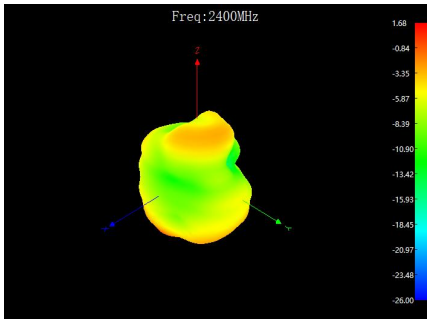

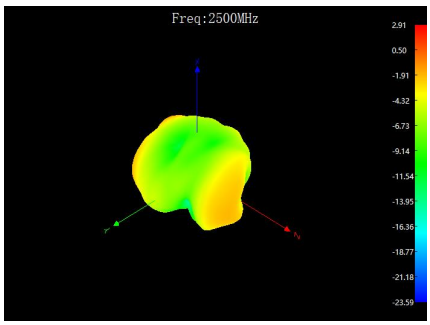

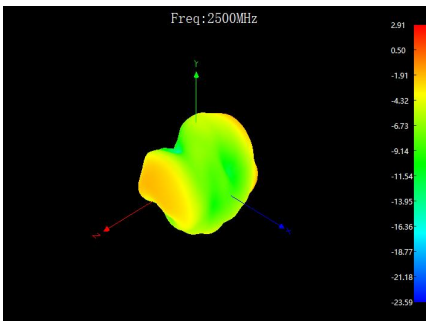

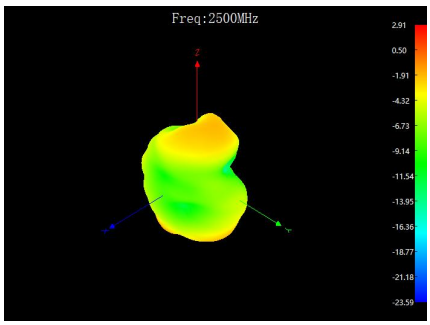

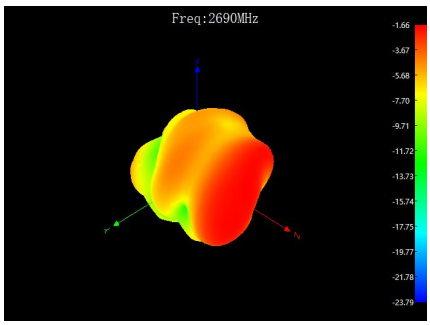

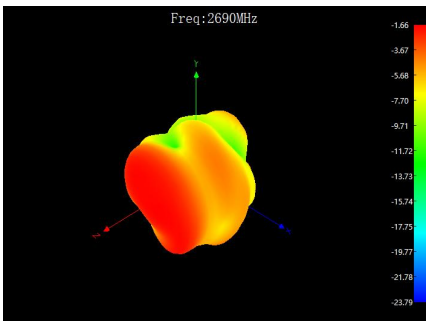

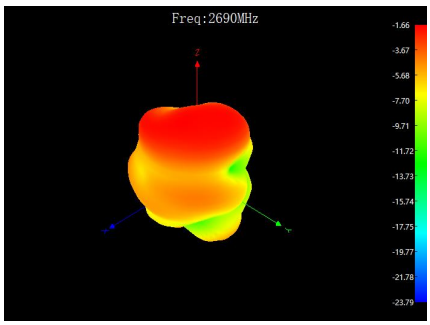

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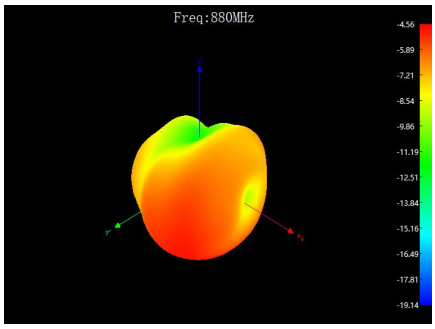
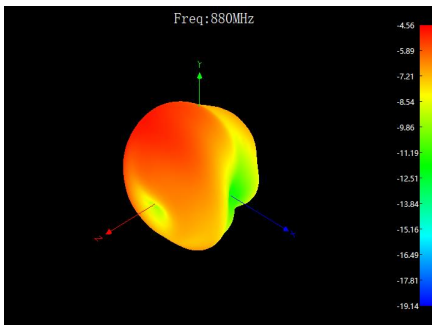
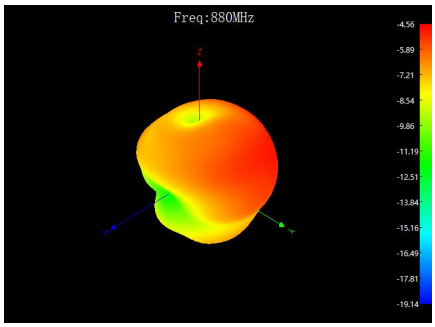
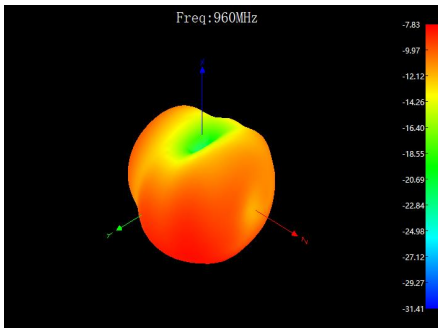
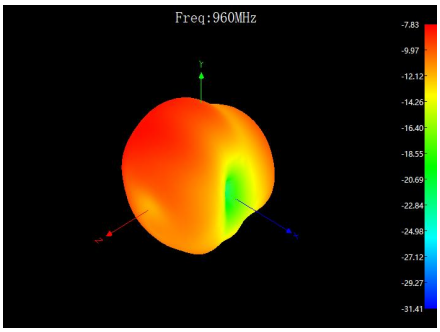


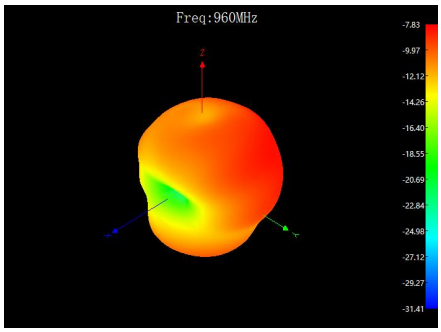




Shanghai Shangyuan Communication Technology Co., Ltd. antenna recognition







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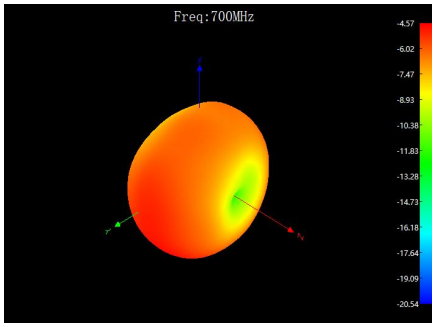

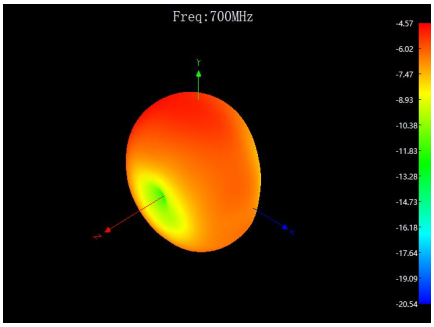

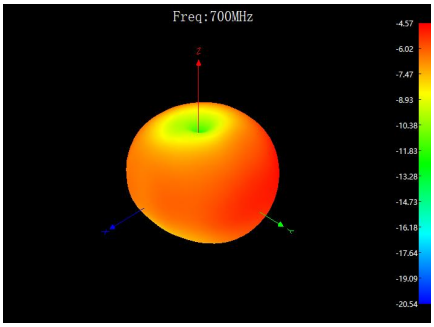

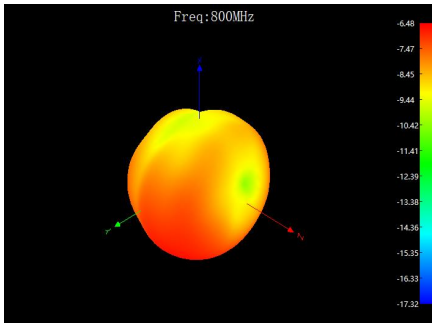

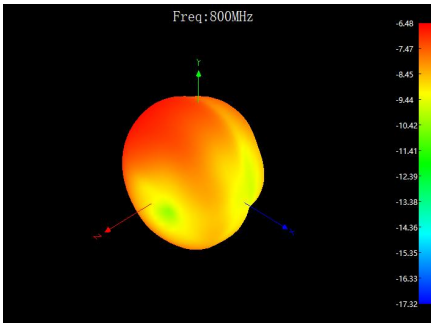

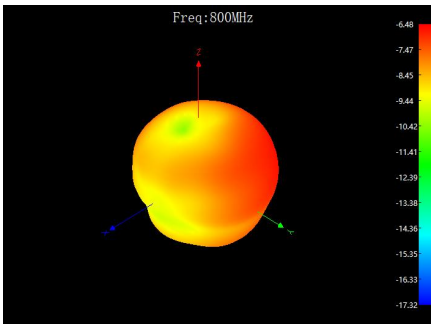

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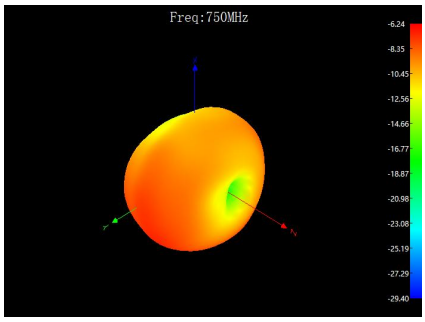

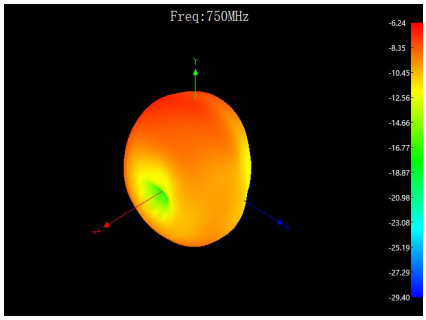

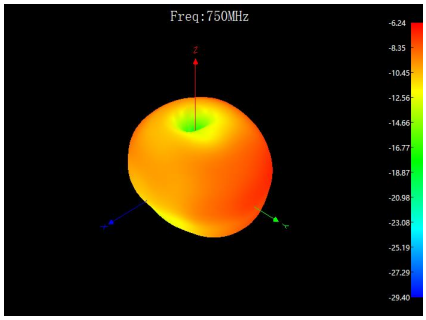

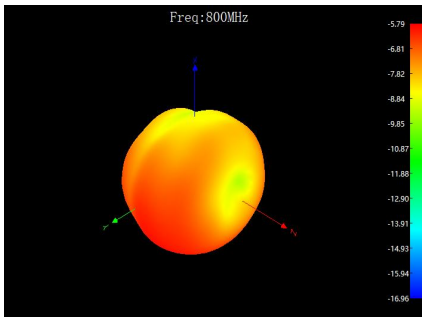

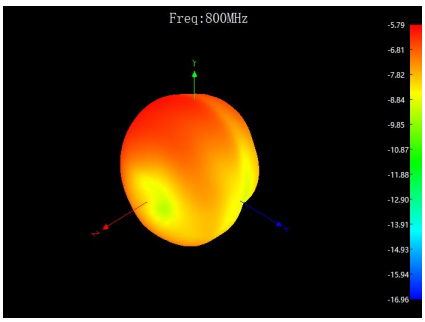

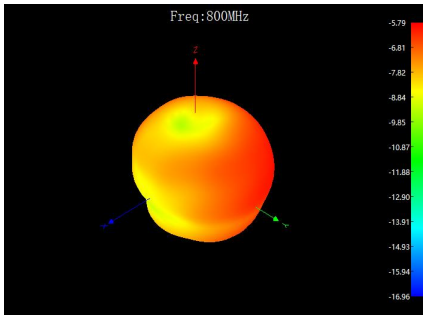

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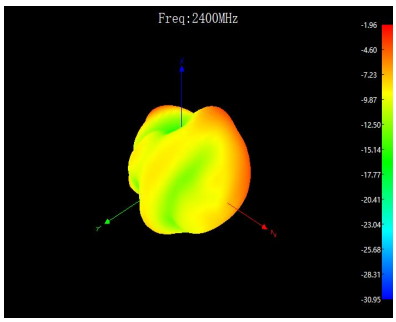
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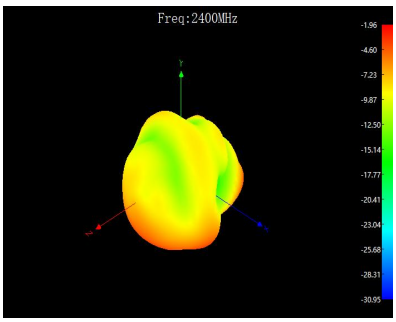
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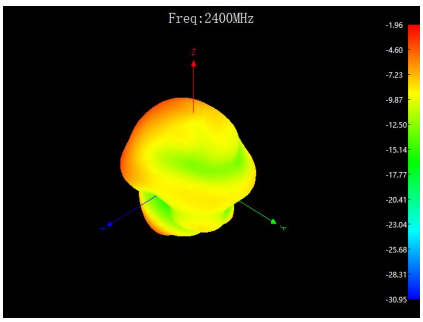
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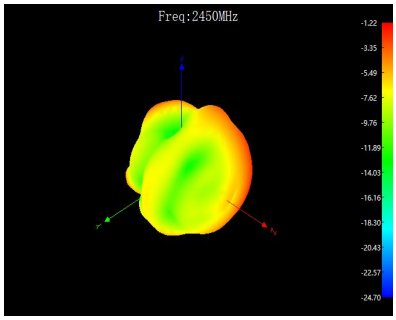
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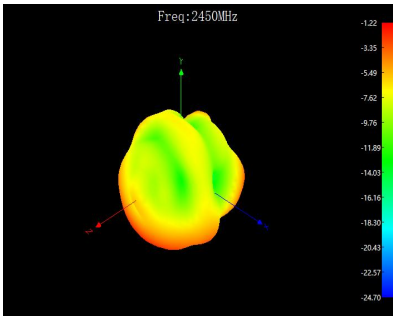
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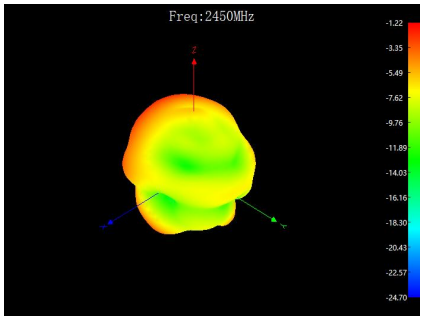
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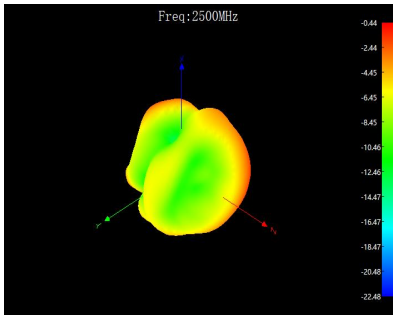
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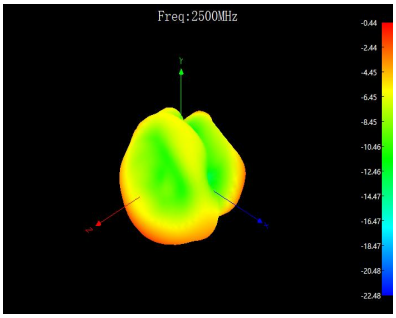
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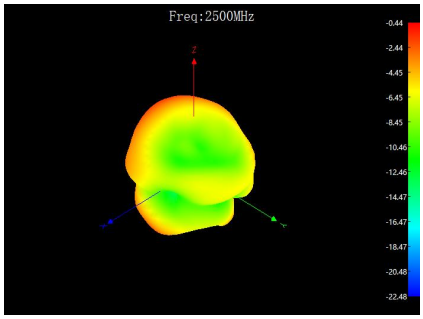
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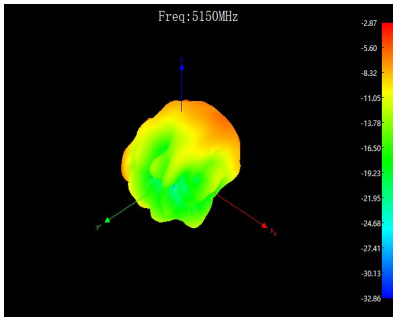
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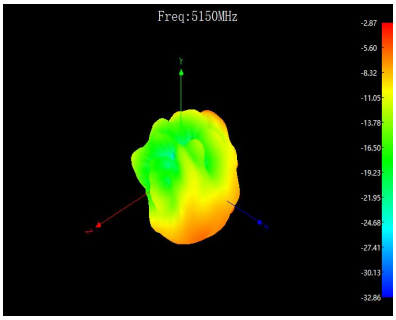
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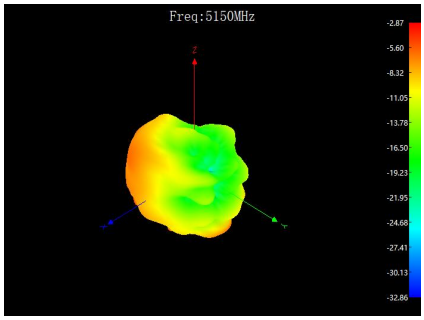
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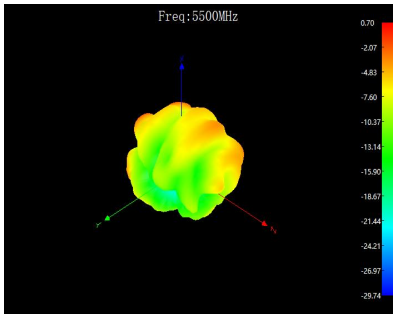
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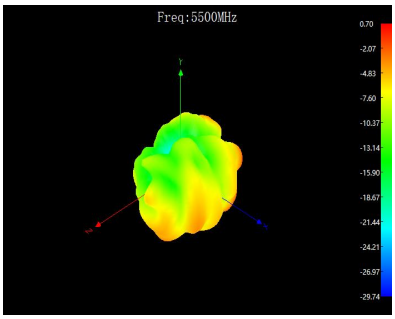
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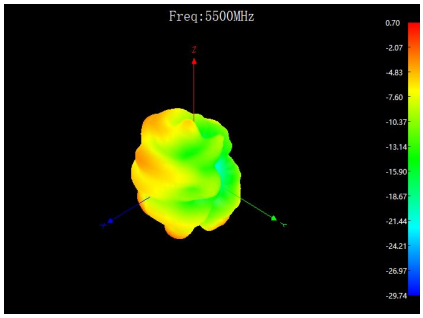
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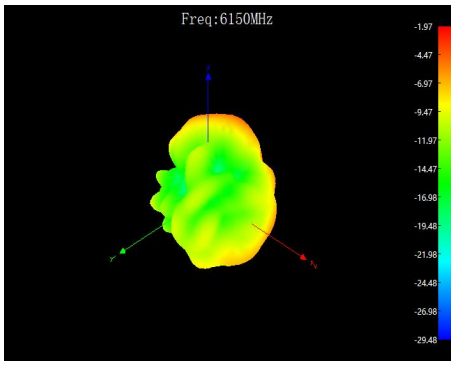
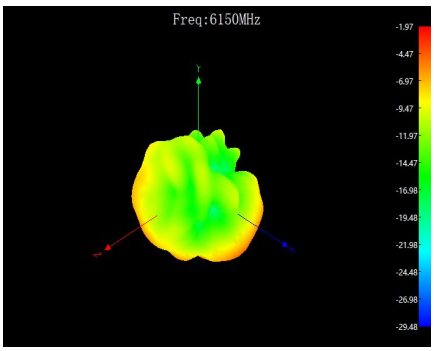
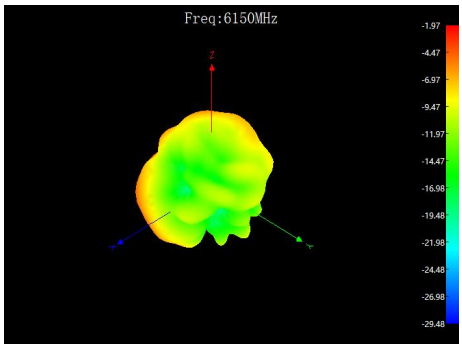
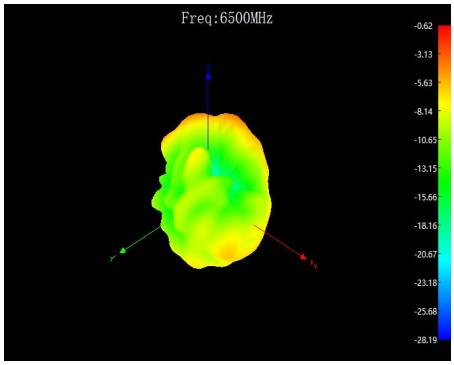
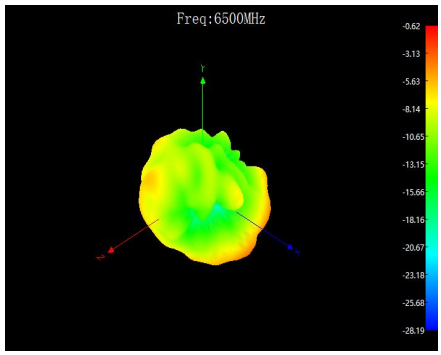
Shanghai Shangyuan Communication Technology Co., Ltd. antenna recognition

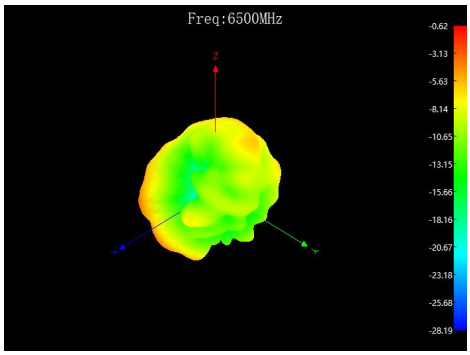


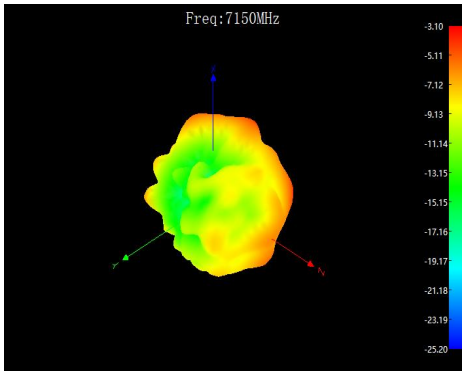


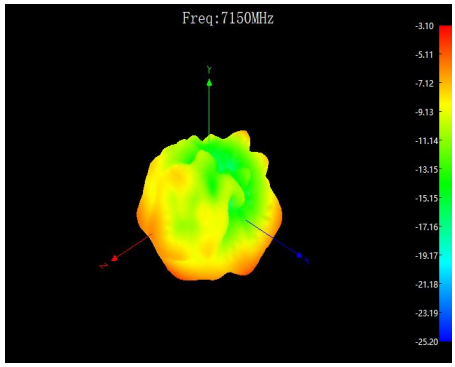


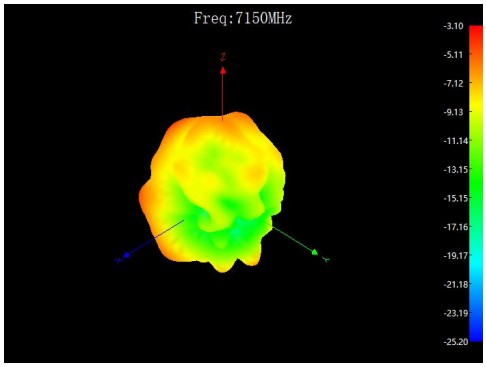












6. Prototype grounding treatment

7. Mass production antenna indicators

When the antenna is mass-produced, the standing wave ratio is used as the mass production test standard. According to the differences in the project itself, the following criteria are given:

frequency（MHz）	Mass production standards
ANT0 791--960；1710--2690	VSWR（量产性能）<VSWR(承认性能)+1
ANT3 2400-2500；5150--7125	VSWR（量产性能）<VSWR(承认性能)+1

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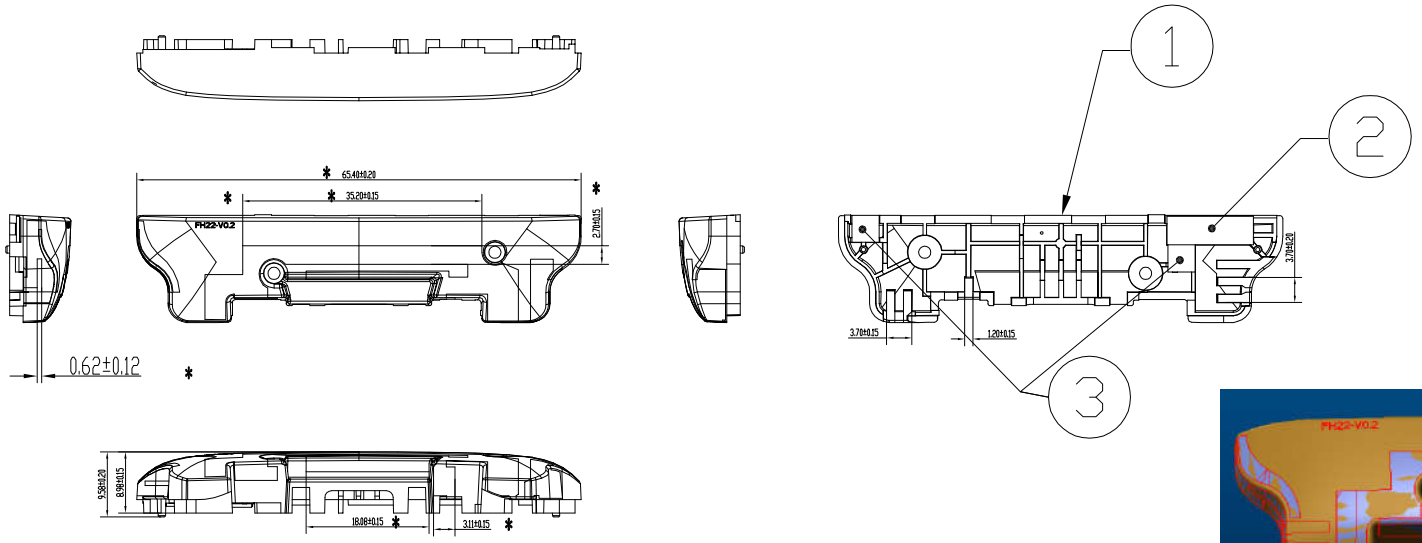
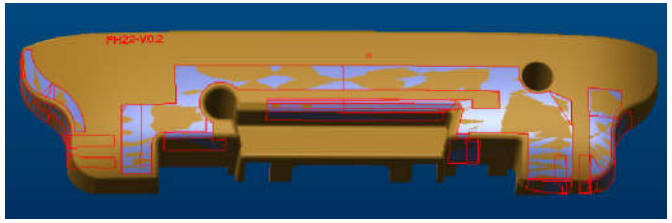
版 本	修 改 内 容	修改人	日期





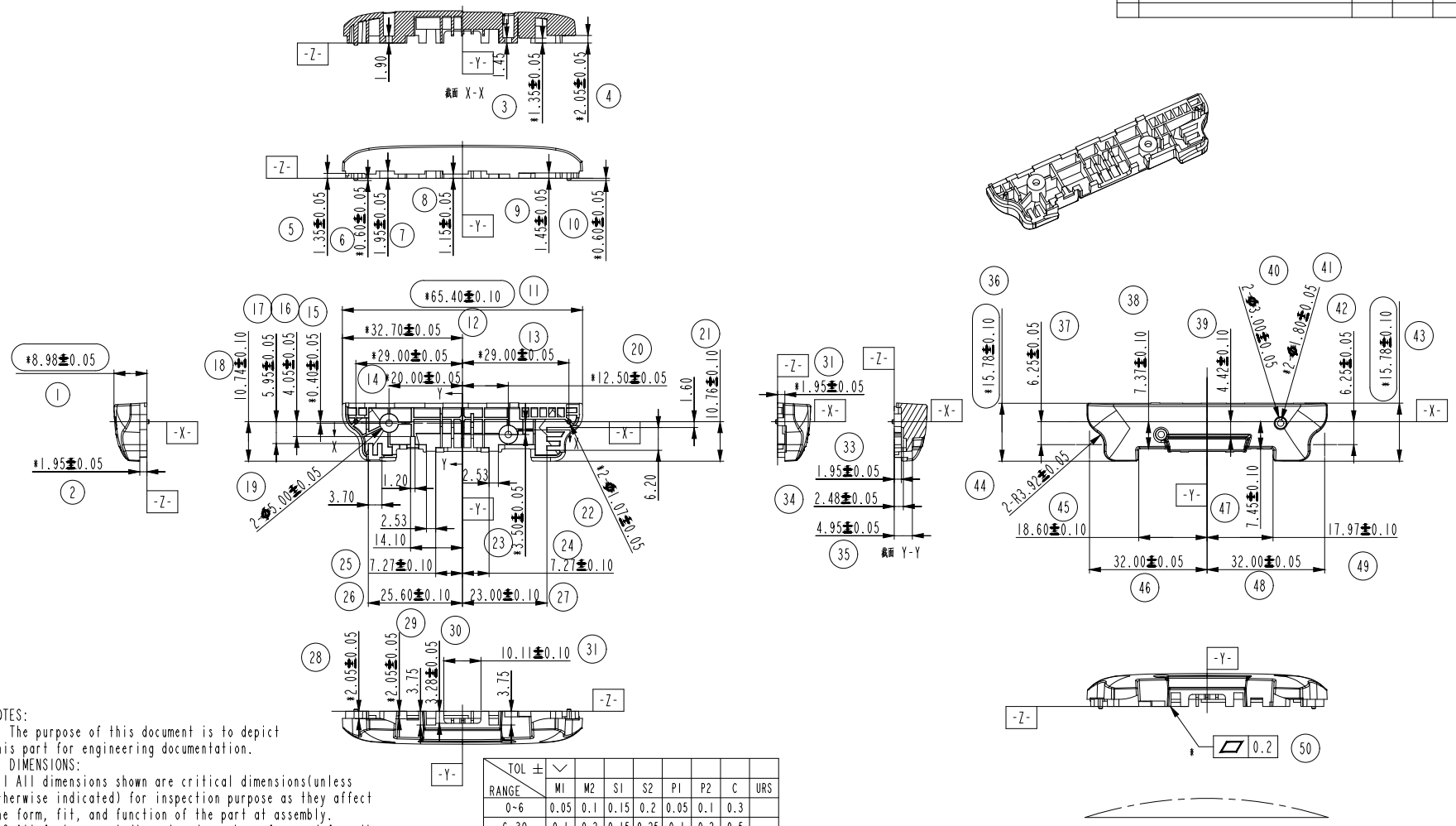
Technical requirements:
1: The key inspection size is marked with "*";
2: Auxiliary materials cannot be pasted off center;
3: The appearance requirements shall comply with the antenna inspection standards,
4: The bracket has no deformation, burrs, material defects, etc;
5: Refer to the general tolerance table for unmarked tolerances;
6. ♦ Size as reference, subject to matching
7. Conduct incoming material inspection;

Serial Number	Part name	P/N	material	quantity	
4	LDS	SH24285IB04-1	LDS		
3	前端接驳连接器 c FH22-FP-COMB-SPONGE-C	SH22098IB06-2	泡棉	black	2
2	主测试连接器泡棉 FH22-MAIN-SUB-FCP-T-SPONGE	SH22098IB06-1	泡棉	black	1
1	bracket	SH22098IB02-1	DX11355	black	1

Sunnyway Technology (China) Co.,Ltd.			
	PART NAME: FH22 MAIN	DATE:	2025.2.25
	PART NO: SH24285IB87-1	DRAWN:	zhangyuanfang
TOLERANCE X.X ±0.25 .XX ±0.25 .XXX ±0.05 ANGULAR ∠±0.5°	RF: yangshaoqing	Tel:	
	PM: yuyan	Tel:	
	MATERIAL:	CHECKED:	yujiang
	FINISHING:	APPROVED:	
UNIT:mm	COLOUR: Black	SCALE:1:1	REV:ta

由 Autodesk 教育版产品制作

REVISION CHANGES					
REV	DESCRIPTION	AUTH	CHECK	APPROVED	DATE
V1.0					



NOTES:
1. The purpose of this document is to depict this part for engineering documentation.
2. DIMENSIONS:
2.1 All dimensions shown are critical dimensions(unless otherwise indicated) for inspection purpose as they affect the form, fit, and function of the part at assembly.
2.2 All features not dimensioned can be referenced form the PRO/E 3D data base the piece part.
3. those dimensions with"*" are spec control dimensions
3.1 SPEC control dimensions are boxed and their CP/CPK value of upper and lower specification limit should be more than 1.67/1.33
4. Material :PC SABIC DX11355+LDS.part must be using virgin material.
5. Tolerance:
5.1 Unspecified dimension tolerance should comply with the general tolerance table in drawing
6.This part should be meet ROHS standard.

TOL ± / RANGE	M1	M2	S1	S2	P1	P2	C	URS
0~6	0.05	0.1	0.15	0.2	0.05	0.1	0.3	
6~30	0.1	0.2	0.15	0.25	0.1	0.2	0.5	
30~80	0.15	0.25	0.2	0.3	0.15	0.3	1	
80~180	0.15	0.3	0.25	0.45	0.2	0.4	2	
180~315	0.2	0.5	0.4	0.6	0.25	0.5	3	
315~800	0.3	0.6	0.7	1.1	0.3	0.6	4	
ANGLE TOL±	1°							

TOLERANCE TABLE:
NOTE:1.M1/M2--PLASTIC CLASS 1st/2nd.
2.S1/S2--ASSEMBLY CLASS 1st/2nd.
3.P1/P2--SHEETMETAL CLASS 1st/2nd.
4.C--SPONGE,FILM,CABLE...ETC.
5.URS:OTHER DEFINED

		SIGNATURE		DATE	
PROJECT	FH09(PA768)	DRAWN	huxiaohui	Apr-06-22	FAIOT
MATERIAL	DX11355+LDS	DESIGNED	huxiaohui	Aug-22-22	PART NAME: FH09_PA768_MAIN_ANT_FRAME_ASM
UNIT:mm		CHECKED			PART NO: 320199000034
SCALE: 1:1		APPROVED			SHEET OF 2_1 REV: V1 SIZE:A3

RAWING INFORMATION IS PROPRIETARY TO FAIOT. IT IS PROHIBITED TO COPY OR DISCLOSE WHOLLY OR IN PART WITHOUT PRIOR WRITTEN CONSENT OF FAIOT.

Full-sizemeasurementreport

Vendor(供应商)	Material Name	LDS	Part NO（料号）	320300000174	Tool Number(模号)	Cav. Number(穴数)	Unit(单位)	Comments(设计者签字)
SUNNYWAY	Material Code	LDS	Part Name (零件名称)	Main antenna assembly	/	/	☐INCHES ☑MILLIMET	
Data	2025.4.8					Rev(版本)		

DIM. #	DIMENSION	DRAWING ZONE	+ TOL	- TOL.	NOTE	MEASURED DIMENSION (实测尺寸) SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	% TOLERANCE USED (公差使用百分比) UPPER	LOWER	DISPOSITION 0%-25%	25%-50%	50%-75%	75%-100%	100%+	Re-Measure	Accept	Fix Tool	Accept With Variance	ACCEPTABLE VARIANCE DIMENSION	+ TOL.	- TOL.
1	65.40		0.20	0.20		65.38	65.41	65.39	65.37	65.42		15%	X											
2	32.50		0.20	0.20		32.48	32.51	32.49	32.47	32.52		15%	X											
3	20.20		0.20	0.20		20.18	20.21	20.19	20.17	20.22		15%	X											
4	3.76		0.10	0.10		3.74	3.77	3.75	3.73	3.78		30%		X										
5	6.26		0.10	0.10		6.24	6.27	6.25	6.23	6.28		30%		X										
6	49.81		0.20	0.20		49.79	49.82	49.80	49.78	49.83		15%	X											
7	11.26		0.20	0.20		11.24	11.27	11.25	11.23	11.28		15%	X											
8	40.46		0.20	0.20		40.44	40.47	40.45	40.43	40.48		15%	X											
9	1.35		0.05	0.05		1.33	1.36	1.34	1.32	1.37		60%			X									
10	2.05		0.05	0.05		2.03	2.06	2.04	2.02	2.07		60%			X									
11	8.98		0.05	0.05		8.96	8.99	8.97	8.95	9.00		60%			X									
12	1.95		0.05	0.05		1.93	1.96	1.94	1.92	1.97		60%			X									
13	1.35		0.05	0.05		1.33	1.36	1.34	1.32	1.37		60%			X									
14	0.60		0.05	0.05		0.58	0.61	0.59	0.57	0.62		60%			X									
15	1.95		0.05	0.05		1.93	1.96	1.94	1.92	1.97		60%			X									
16	1.15		0.05	0.05		1.13	1.16	1.14	1.12	1.17		60%			X									
17	1.45		0.05	0.05		1.43	1.46	1.44	1.42	1.47		60%			X									
18	0.60		0.05	0.05		0.58	0.61	0.59	0.57	0.62		60%			X									
19	10.74		0.10	0.10		10.72	10.75	10.73	10.71	10.76		30%		X										
20	5.95		0.05	0.05		5.93	5.96	5.94	5.92	5.97		60%			X									
21	4.05		0.05	0.05		4.03	4.06	4.04	4.02	4.07		60%			X									
22	0.40		0.05	0.05		0.38	0.41	0.39	0.37	0.42		60%			X									
23	32.70		0.05	0.05		32.68	32.71	32.69	32.67	32.72		60%			X									
24	29.00		0.05	0.05		28.98	29.01	28.99	28.97	29.02		60%			X									
25	20.00		0.05	0.05		19.98	20.01	19.99	19.97	20.02		60%			X									
26	29.00		0.05	0.05		28.98	29.01	28.99	28.97	29.02		60%			X									
27	7.27		0.05	0.05		7.25	7.28	7.26	7.24	7.29		60%			X									

28	25.60		0.05	0.05		25.58	25.61	25.59	25.57	25.62		60%			X									
29	23.00		0.05	0.05		22.98	23.01	22.99	22.97	23.02		60%			X									
30	5.00		0.05	0.05		4.98	5.01	4.99	4.97	5.02		60%			X									
31	3.50		0.05	0.05		3.48	3.51	3.49	3.47	3.52		60%			X									
32	7.27		0.05	0.05		7.25	7.28	7.26	7.24	7.29		60%			X									
33	12.50		0.05	0.05		12.48	12.51	12.49	12.47	12.52		60%			X									
34	10.76		0.10	0.10		10.74	10.77	10.75	10.73	10.78		30%		X										
35	2.05		0.05	0.05		2.03	2.06	2.04	2.02	2.07		60%			X									
36	3.28		0.05	0.05		3.26	3.29	3.27	3.25	3.30		60%			X									
37	10.11		0.10	0.10		10.09	10.12	10.10	10.08	10.13		30%		X										
38	1.95		0.05	0.05		1.93	1.96	1.94	1.92	1.97		60%			X									
39	2.48		0.05	0.05		2.46	2.49	2.47	2.45	2.50		60%			X									
40	4.95		0.05	0.05		4.93	4.96	4.94	4.92	4.97		60%			X									
41	15.78		0.10	0.10		15.76	15.79	15.77	15.75	15.80		30%		X										
42	6.25		0.05	0.05		6.23	6.26	6.24	6.22	6.27		60%			X									
43	7.37		0.10	0.10		7.35	7.38	7.36	7.34	7.39		30%		X										
44	4.42		0.10	0.10		4.40	4.43	4.41	4.39	4.44		30%		X										
45	6.25		0.05	0.05		6.23	6.26	6.24	6.22	6.27		60%			X									
46	15.78		0.10	0.10		15.76	15.79	15.77	15.75	15.80		30%		X										
47	18.60		0.10	0.10		18.58	18.61	18.59	18.57	18.62		30%		X										
48	32.00		0.05	0.05		31.98	32.01	31.99	31.97	32.02		60%			X									
49	7.45		0.10	0.10		7.43	7.46	7.44	7.42	7.47		30%		X										
50	17.97		0.10	0.10		17.95	17.98	17.96	17.94	17.99		30%		X										
51	3.00		0.05	0.05		2.98	3.01	2.99	2.97	3.02		60%			X									
52	1.80		0.05	0.05		1.78	1.81	1.79	1.77	1.82		60%			X									
53	5.00		0.05	0.05		4.98	5.01	4.99	4.97	5.02		60%			X									

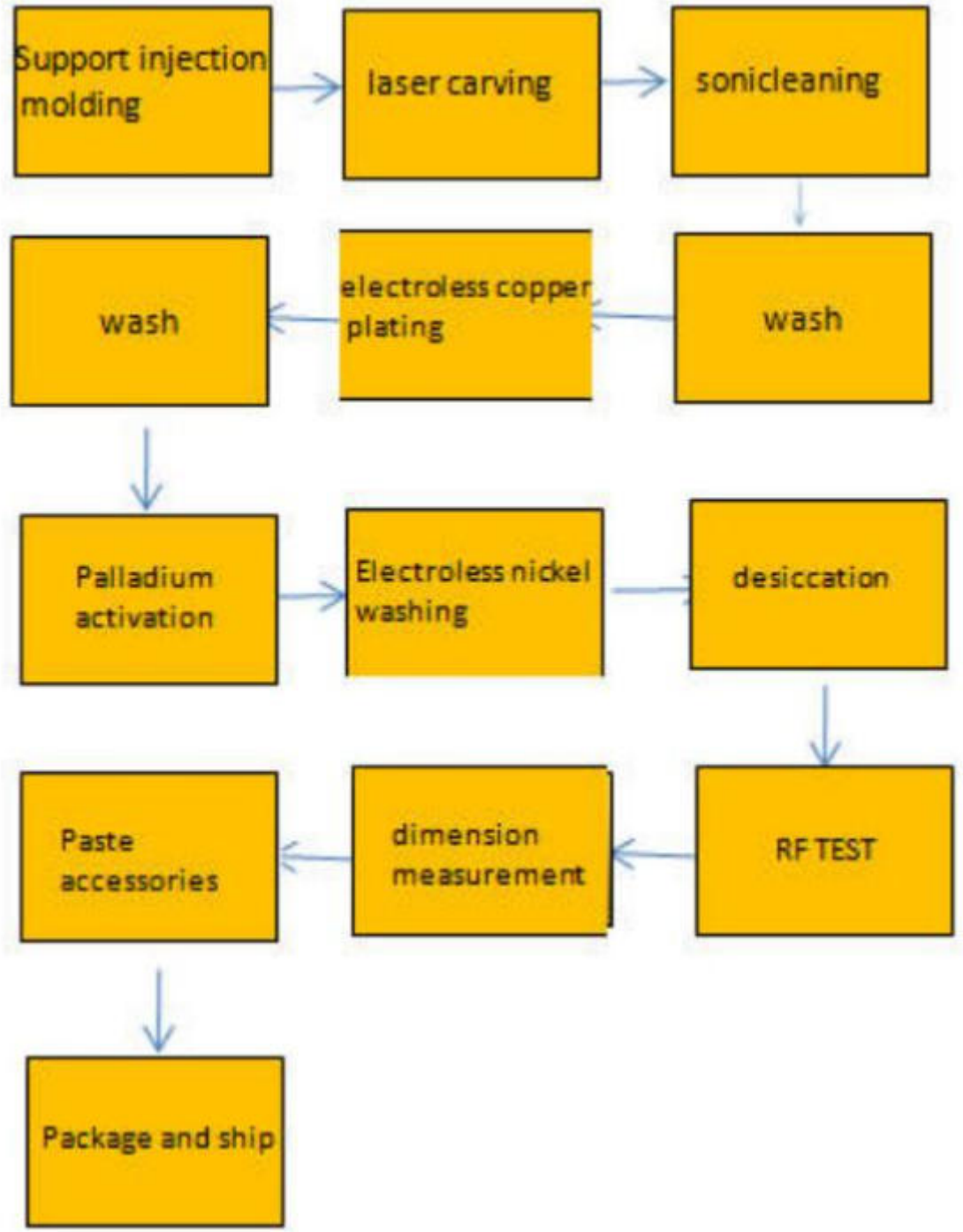
CPK Report

Part Number(料号)	320300000174	Vendor(供应商)	SUNNYWAY
Description(零件名称)	Main antenna assembly	Inspected(确认者)	CHENXIAOPING
Tool Number(模号)	/	Inches/MM(英寸/毫米)	MM
Cavity(穴号)	/	Material Name(材质名称)	LDS
		Material Code(材质牌号)	LDS
Revision(版本)	V1.0	Date(日期)	2025.4.8

Dim. Designator(尺寸序号)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Nominal(公称尺寸)	65.40	32.50	20.20	3.76	6.26	1.35	2.05	0.60	32.70	29.00	20.00	12.50	2.05	1.95	15.78	1.80
+ Tolerance(正公差)	0.20	0.20	0.20	0.10	0.10	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.10	0.05
- Tolerance(负公差)	-0.20	-0.20	-0.20	-0.10	-0.10	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.10	-0.05
Upper Limit(规格上限)	65.60	32.70	20.40	3.86	6.36	1.40	2.10	0.65	32.75	29.05	20.05	12.55	2.10	2.00	15.88	1.85
Lower Limit(规格下限)	65.20	32.30	20.00	3.66	6.16	1.30	2.00	0.55	32.65	28.95	19.95	12.45	2.00	1.90	15.68	1.75
1	65.45	32.55	20.25	3.78	6.29	1.32	2.05	0.58	32.73	29.02	20.03	12.53	2.07	1.98	15.81	1.82
2	65.35	32.45	20.15	3.74	6.23	1.37	2.07	0.62	32.68	28.98	19.98	12.48	2.03	1.92	15.75	1.78
3	65.38	32.48	20.17	3.76	6.28	1.34	2.04	0.60	32.71	28.99	20.01	12.52	2.06	1.94	15.79	1.79
4	65.42	32.49	20.21	3.75	6.24	1.36	2.06	0.61	32.69	29.01	19.99	12.49	2.04	1.96	15.76	1.81
5	65.37	32.51	20.24	3.76	6.27	1.35	2.05	0.59	32.70	29.00	20.02	12.51	2.05	1.95	15.78	1.82
6	65.49	32.54	20.18	3.77	6.26	1.37	2.03	0.62	32.72	28.98	19.98	12.48	2.07	1.97	15.80	1.78
7	65.39	32.46	20.16	3.74	6.23	1.34	2.07	0.60	32.68	28.99	20.01	12.52	2.03	1.93	15.81	1.79
8	65.40	32.53	20.24	3.79	6.28	1.36	2.08	0.61	32.71	29.01	19.99	12.48	2.06	1.92	15.75	1.78
9	65.35	32.45	20.15	3.75	6.24	1.37	2.04	0.62	32.69	28.98	20.02	12.52	2.04	1.94	15.79	1.79
10	65.38	32.48	20.17	3.76	6.27	1.34	2.06	0.60	32.70	28.99	20.01	12.52	2.03	1.96	15.76	1.81
11	65.42	32.49	20.21	3.76	6.23	1.36	2.05	0.61	32.68	29.01	19.99	12.49	2.06	1.95	15.78	1.82
12	65.37	32.51	20.24	3.75	6.28	1.35	2.03	0.59	32.71	29.00	20.02	12.51	2.04	1.97	15.79	1.78
13	65.44	32.58	20.18	3.76	6.24	1.37	2.04	0.62	32.69	28.98	19.98	12.48	2.05	1.96	15.76	1.82
14	65.39	32.46	20.16	3.77	6.27	1.34	2.06	0.60	32.70	28.99	20.01	12.52	2.07	1.95	15.78	1.78
15	65.37	32.48	20.24	3.74	6.26	1.37	2.05	0.62	32.72	29.01	19.99	12.48	2.03	1.97	15.80	1.79
16	65.44	32.49	20.18	3.76	6.23	1.34	2.03	0.60	32.68	29.00	20.01	12.52	2.06	1.93	15.81	1.78
17	65.39	32.51	20.16	3.75	6.28	1.36	2.07	0.61	32.71	28.98	19.99	12.51	2.06	1.92	15.75	1.79
18	65.40	32.54	20.24	3.73	6.24	1.37	2.08	0.62	32.69	28.99	20.02	12.48	2.04	1.94	15.79	1.81
19	65.35	32.46	20.15	3.71	6.27	1.34	2.05	0.60	32.70	29.01	20.01	12.52	2.03	1.96	15.78	1.82
20	65.37	32.53	20.16	3.76	6.23	1.37	2.03	0.61	32.68	28.98	19.98	12.52	2.06	1.95	15.79	1.78
MAX.	65.49	32.58	20.25	3.79	6.29	1.37	2.08	0.62	32.73	29.02	20.03	12.53	2.07	1.98	15.81	1.82
MIN.	65.35	32.45	20.15	3.71	6.23	1.32	2.03	0.58	32.68	28.98	19.98	12.48	2.03	1.92	15.75	1.78
AVERAGE	65.40	32.50	20.19	3.75	6.26	1.35	2.05	0.61	32.70	29.00	20.00	12.50	2.05	1.95	15.78	1.80
STDEV	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.02
CP	1.79	1.82	1.79	1.89	1.56	1.11	1.02	1.41	1.09	1.26	1.02	0.89	1.12	0.92	1.64	0.99
Cpk	1.75	1.82	1.72	1.79	1.50	1.01	0.97	1.23	1.06	1.14	0.97	0.82	1.10	0.89	1.61	0.93
TOOLING(测量工具)	二次元	二次元	二次元	二次元	二次元	二次元	二次元	二次元	二次元	二次元	二次元	二次元	二次元	二次元	二次元	二次元

制表：韦月丽	审核：陈小平	日期:2025.4.8

Process Flow Chart(制造流程图)					
Customer(客户)	GUANGYI	Written By(制作)	林锋	Orig. Date(制作日期)	2025.4.8
Part Number(料号)	320300000174	Revised By(校订)	于姜	Revised Date(校订日期)	2025.4.8
Description(零件名称)	Main antenna assembly	Approved By(确认)	曹进茂	Approved Date(确认日期)	2025.4.8



RoHS 2.0 Restricted Substance Composition Survey Form

SALEABLE PART

Part number	Part name/model	Supplier material number	Manufacturer's name	The green material identification method for suppliers
320300000174	Main antenna assembly	SH24285IB87-1	SUNNYWAY	RoHS

SUB-PART

serial number	Name (Chinese/English)		Material number (monomer/material component number or grade in the monomer)	Single product Usage amount (g)	供应商	Test report	限用物质含量PPM										control method	RoHS Report		remark
	monomer	The material components in the monomer				YES/NO	铅 (Pb)	铅 (Pb)	汞 (Hg)	六价铬 (Cr6+)	多溴联苯 (PBBs)	多溴二苯醚 (PBDEs)	邻苯二甲酸二异丁酯 (DIBP)	邻苯二甲酸(2-乙基己基酯)	邻苯二甲酸二丁酯 (DBP)	邻苯二甲酸丁苄酯 (BBP)		serial number	DATA	
1	LDS	Copper-nickel				有	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	SGS	A2240613314101001C	24.10.9	
2	foam	foam				有	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	SGS	CANPC25002258702	2025.2.17	
3	Damping clothDamping cloth	Damping clothDamping cloth				有	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	SGS	TSNEC25000315406	2025.2.18	
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				

produce：weiyueli　　check：chenxiaoping　　data：2025.4.8

BOM

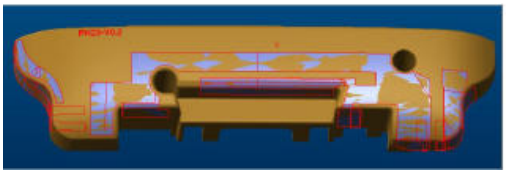
■ **ROHS2.0**

serial number	Part number	name of parts	Part Description	name of the supplier	Supplier model	quantity	YES/NO **ROSH**	备注 **Remark**
1	320300000174	Main antenna assembly	LDS	sunnyway	SH24285IB87-1	1	YES	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

produce：weiyueli　　check：chenxiaoping　　data：2025.4.8

manner of packing

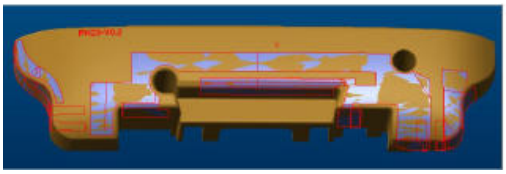
1.Single product packaging photos or 2D images (for materials with individual packaging)



2. Single-layer product packaging photos or 2D images (demonstrating neatness and reliability)

reference picture

3. Photos of all layers of products placed inside the box (demonstrating sealing and



4. Overall photos or 2D images of the entire box after sealing (overall sealing status)

reference picture

5. Single package product labels (material number, product name, quantity, etc.)

customer name:	Shanghai Guangyi Zhilian Technology Co., LTD
product name:	FH22
order number:	
Shangyuan Technology Coding:	SH24285IB87-1
Customer material code:	320300000174
quantity:	1PCS
supplier:	Sunnyway Technology Co.,Ltd
inspector:	
delivery date:	

6. Outer box labels (material number, product name, quantity and other information)

customer name:	Shanghai Guangyi Zhilian Technology Co., LTD
product name:	FH22
order number:	
Shangyuan Technology Coding:	SH24285IB87-1
Customer material code:	320300000174
quantity:	1PCS
supplier:	Sunnyway Technology Co.,Ltd
inspector:	
delivery date:	

product name	Main antenna assembly	
Product material number	320300000174	
material description		
Description of packaging methods or packaging materials	Pallet + carton	
The quantity of packaging inside the box	The quantity of each layer or each package	
	The number of layers or packets	
	The quantity of each box	
remark		
1. Prepare the required packaging materials and place them in a favorable position for work. ₩ n2. According to the packaging specification of SYC-BZ01, use cartons (SYC-01) and pallets for packaging. 3. Each box is subject to the actual packaging		
Supplier's signature	chenxiaoping	
data	2025.5.20	