

Project No.: XR2022052701

Date: 2022.07.15

Rev: A0-0715

Acknowledgement

Customer name: 新瑞科技

Customer project: 004.032.0050007

B&T P/N: AG-011520-1007

Spec: 2.4G-5.8G external black folding antenna -SMA-J

Sealed by corporation:

compilation	verify	approval
Tanlilin	He Xing	liwei

Sealed by customer:

check	verify	approval

Contact information of B&T

Contact person for sales : Longmingguo	MB:18576042661	E-mail: longmg@tech-now.com
Contact person for technical: Yangbingwu	MB:15675198828	E-mail: yangbw@tech-now.com
Contact person for Quality: Leihao	MB:15681917991	E-mail: sc_qe2@tech-now.com

Form no. : B&T-QR-EN-002 version: B3

Contents

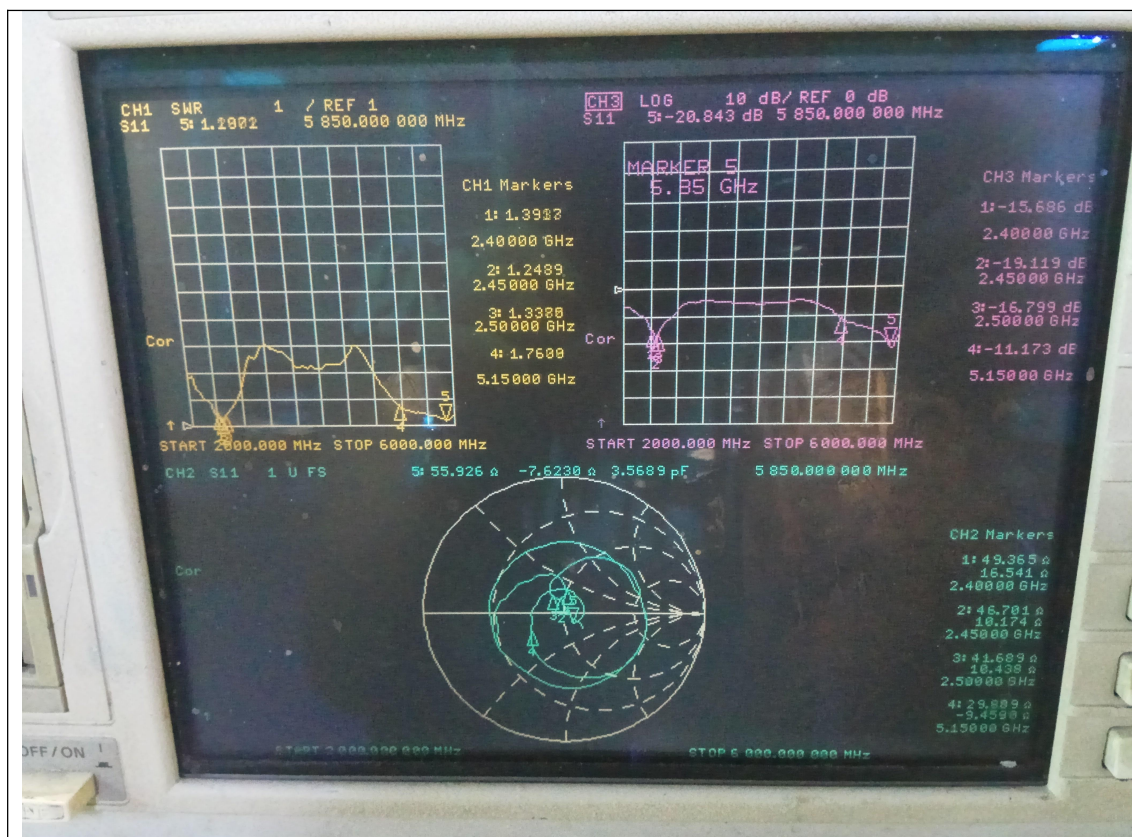
1、 cover·····	1
2、 Catalog·····	3
3、 Product surface·····	4
4、 Performance parameter table·····	5
5、 Electrical performance test report·····	6
6、 Electrical Performance Test Report (Single-antenna test)·····	7
7、 Table of Materials and Hazardous Substances·····	10
8、 Packaging specification·····	11

4、Performance parameter table

Electrical parameters	
frequency range	2400~2500/5151-5850MHz
Input impedance	50 Ω
VSWR	≤ 2.0
Max Gain	2.0dBi
Power capacity	10w
Pass test	access
Polarization mode	vertical
Radiation direction	omnidirectional
Connector type	SMA-J
Mechanical parameters	
Total antenna length	109 $\pm$ 4mm
Sustaining power	3Kg
Coaxial cable	RG178 line
Salt mist test	24H
Environment parameter	
Operating Temp	-30 $^{\circ}$ C~65 $^{\circ}$ C

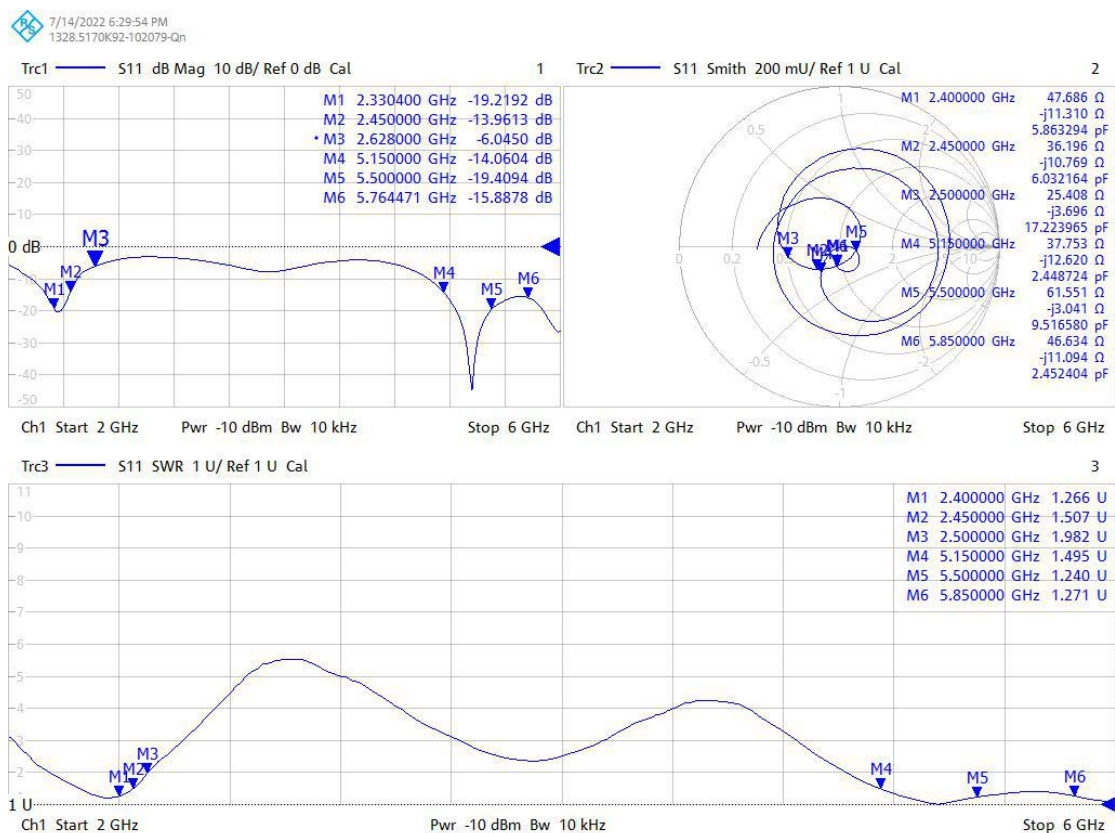
5、Electrical performance test report

S11 Parameter



6. Electrical Performance Test Report (Single-antenna test)

Antenna parameter diagram



6.2 Standing Wave Ratio data

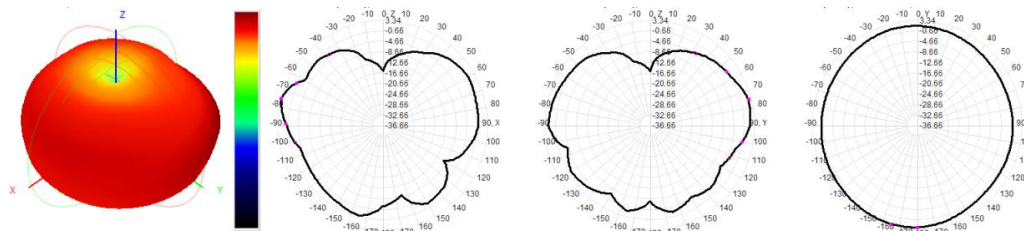
Freq/GHz	2.4	2.45	2.5	5.15	5.50	5.80
VSWR	1.26	1.50	1.98	1.49	1.24	1.27

6.3 Antenna anechoic Chamber test data

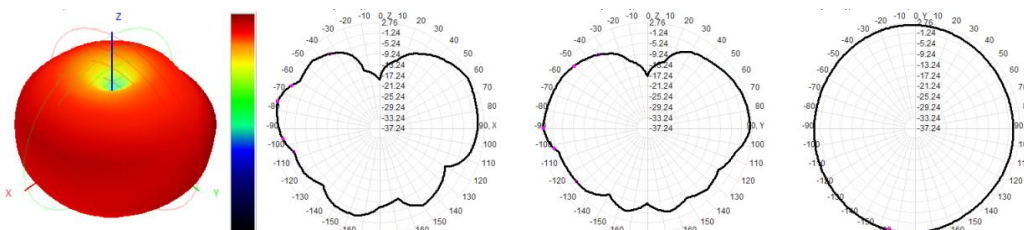
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	3.47	70.71
2410.0	3.50	73.43
2420.0	3.39	72.95
2430.0	3.32	73.31
2440.0	3.11	70.94
2450.0	3.00	71.14
2460.0	2.85	71.46
2470.0	2.72	73.07
2480.0	2.59	73.71
2490.0	2.62	73.43
2500.0	2.46	71.46
5150.0	2.79	63.80
5200.0	3.07	66.40
5250.0	2.89	63.51
5300.0	2.86	65.02
5350.0	2.37	66.14
5400.0	2.82	65.89
5450.0	2.89	66.31
5500.0	3.44	71.46
5550.0	2.84	69.22
5600.0	2.92	71.31
5650.0	3.11	74.97
5700.0	3.64	71.36
5750.0	4.69	74.02
5800.0	5.15	79.31
5850.0	5.38	81.78

6.4 Antenna pattern

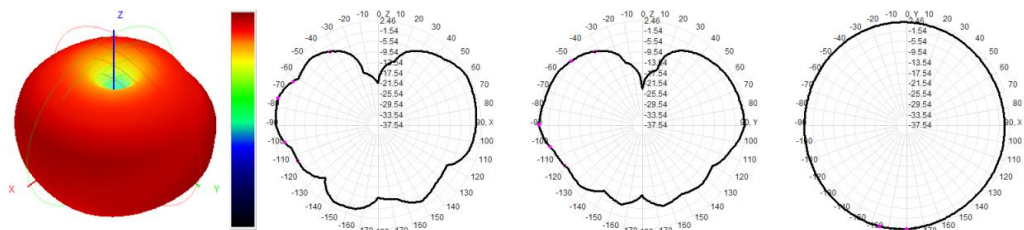
2400M 3D-E1-E2-H



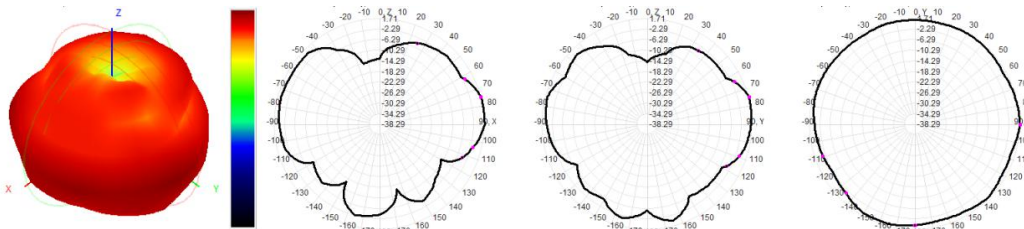
2450M 3D-E1-E2-H



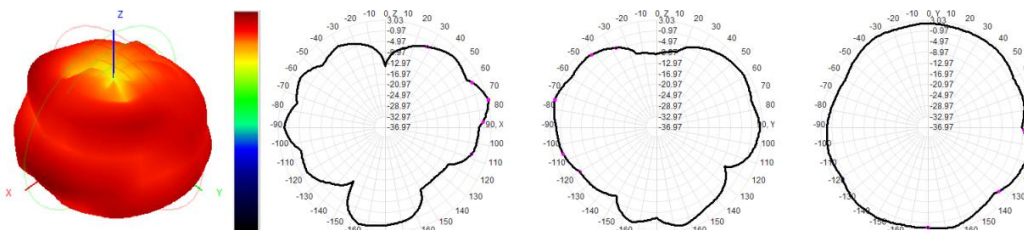
2500M 3D-E1-E2-H



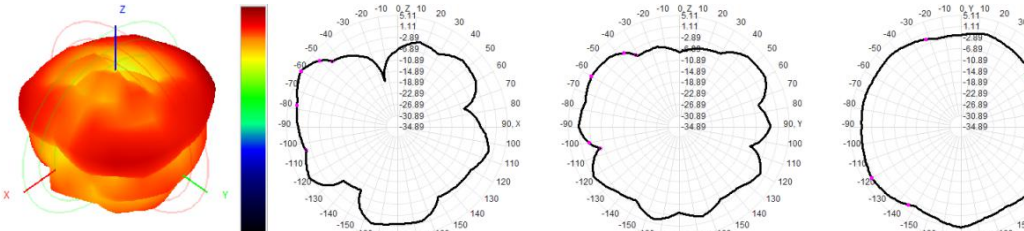
5150M 3D-E1-E2-H



5500M 3D-E1-E2-H



5850M 3D-E1-E2-H



7、Table of Materials and Hazardous Substances

Items are	specifications	The material	RoHS The inspection results (PPM)						ICP Test number	Detection time
			Cd	Pb	Hg	Cr+6	PBB	PBDE		
1	RG178 line	FEP/silver plated copper wire	ND	9	ND	ND	ND	ND	XMNEC1900240103	19.03.20
2	Zinc alloy	Zinc alloy	ND	15	ND	ND	/	/	CANEC1902469902	19.02.26
3	Folding plastic	PC+PBT	ND	ND	ND	ND	ND	ND	SZSEC1901177701	19.06.06
4	rod sleeve	TPEE	ND	ND	ND	ND	ND	ND	SZEC1901516201	19.07.19
5	connector	brass	ND	25599	ND	ND	ND	ND	CANEC1908127402	19.05.20
		PTFE	ND	5	ND	ND	ND	ND	CANEC1825975101	18.12.19
		Gold plating	ND	33468	ND	ND	ND	ND	SZSEC1900245903	2019.3.1
		Zinc alloy	ND	18	ND	ND	/	/	CANML1902928201	19.03.05
6	Heat shrinkable casing	Heat shrinkable casing	ND	ND	ND	ND	ND	ND	CANEC1826815803	19.01.07

PACKING CRITERION

P/N: AG-011520-1007

Spec: 2.4G-5.8G external black folding antenna -SMA-J

一、Labeling requirements (according to the customer's name, refer to the corresponding finished product label production requirements. If there is no requirement, it will follow the ordinary label requirements.)

Label for PE bag/ carton, L:10cm;W:6cm

buyer	*****		
vender	ZHONGSHAN B&T TECHNOLOGY Co., Ltd		
Purchase No	*****		
Material No.	*****		
Part name	*****	QC	**
Q'ty/Unit	*****	Manufacture date	****.***
Trace code	*****	Running water number	*****

Label for PE bag/ carton, L:10cm;W:6cm

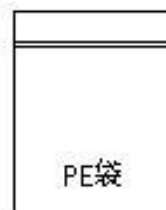
buyer	*****		
vender	ZHONGSHAN B&T TECHNOLOGY Co., Ltd		
Purchase No	*****		
Material No.	*****		
Part name	*****	QC	**
Q'ty/Unit	*****	Manufacture date	****.***
Trace code	*****	Running water number	*****

2、Job description:

1.1 packaging:

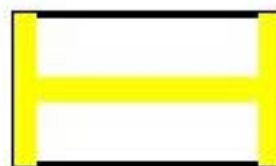
Product_1_PCS smal bag,

Product_50_PCS big bag

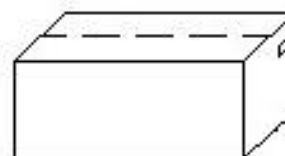


2. Outer packing:

____1000____PCS a box



纸箱



Matters needing attention:

1 whether to add partitions, Pearl cotton;

2 label attached, such as ROHS, etc.;