

## APPROVAL SHEET

Supplier name: Guangzhou Vision enthalpy Technology Co., LTD

Supplier material name: Coaxial antenna

Supplier specifications and model: 24~2.5GHZ417dBi5.15-

5,85GH417dBi130x15mm195mm. PEX-generation terminal CB3COAX3 root

coaxial line length 145mm, 160mm, 150mm, 3M glue SH

CVTE Item number: P010133778

Admission edition: AO

Drawing version number (no drawing): A0

Supplier acknowledgement column				
lay down	examine and verify	ratify		
Jack	Lucy			

#### Supplier Address:

#### telephone:

#### portraiture:

Note: Supplier commitment and confirmation, Suppliers to Guangzhou bin electronic technology Co., Ltd., and its affiliated companies (including but not limited to Guangzhou visual source electronic Technology Co., Ltd., Guangzhou electronic Technology Co., Ltd., Guangzhou into information technology Co., Ltd., Guangzhou, medical equipment technology Co., Ltd., Guangzhou yi intelligent electronic technology Co., Ltd., Guangzhou farce ear acoustic technology Co., Ltd., Guangzhou rui xin electronic Technology Co., Ltd., Qingdao source dynamic wisdom sports technology Co., Ltd., Guangzhou radium morning automatic control technology Co., Ltd., Guangzhou Liuhuan Information Technology Co., Ltd.) (known as "CVTE") supply of materials, Are able to meet the standards stipulated in this admission, Without the supplier. The scanned copy, photocopy and faxed copy of this admission letter shall have the same legal effect as the original copy.

## **Contents Directory**

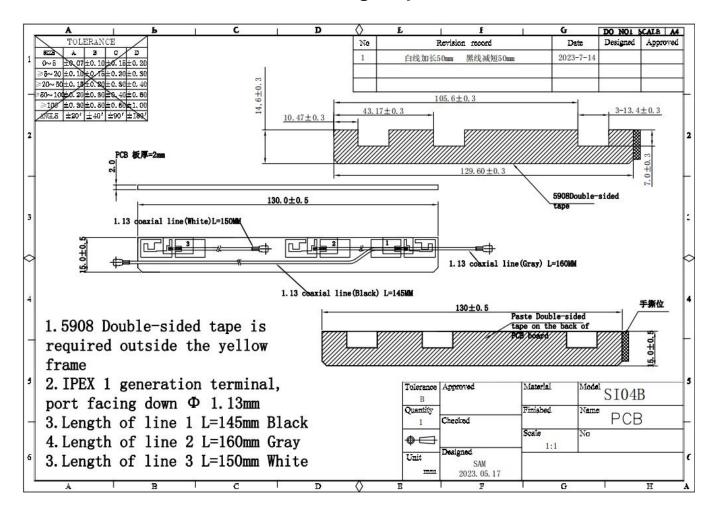
1. Document Revision1
2. Product Photos4
3. Product Drawings And Specifications
4. Performance Parameters5
5. Packaging Standard:13
6. Reliability Test Report:
7.Disabled Material Guarantee15

	Document revision resume form					
Edition	Date	Develop / Modify / Repeal content	Lay Down	Approval		
A/0	2023-06-21	New Edition	Yue Ting	Feng Xianqiang		

#### 2. Product Photos



## 3. Product Drawings, Specifications

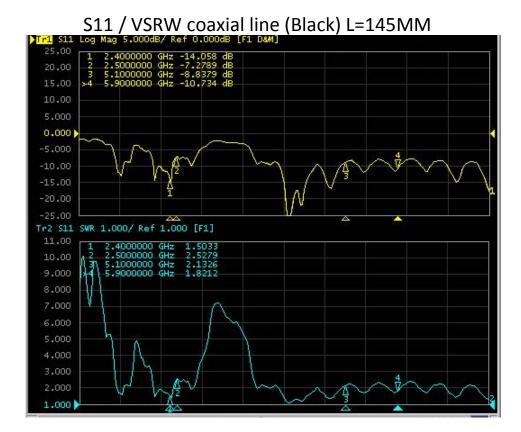


## 4. performance Parameter

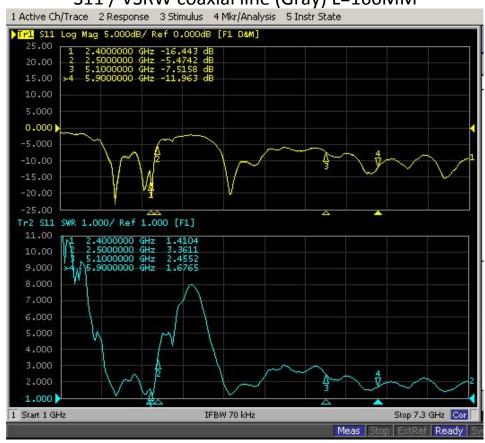
## 4-1 Performance Parameters

	Electrical Parameters				
Frequency Range	2.4-2.5GHz 5.15-5.85GHz				
Input Impedence	50 Ω				
Standing-wave Ratio	sample for reference				
Gain	/				
Power Capacity	/				
Through The Test	Thoroughfare				
Polarization Mode	Linear				
Radiation Direction	/				
Connector Model	I-PEX terminal 1 generation * 3				
Mech	nanical Parameters				
Terminal Maintenance Force	/				
Antenna Material	PCB				
Coax	White-Grey-Black 1. 13 line				
Salt Spray Test	24Н				
Envi	romental Parameter				
Working Temperature	-30°C~65°C				

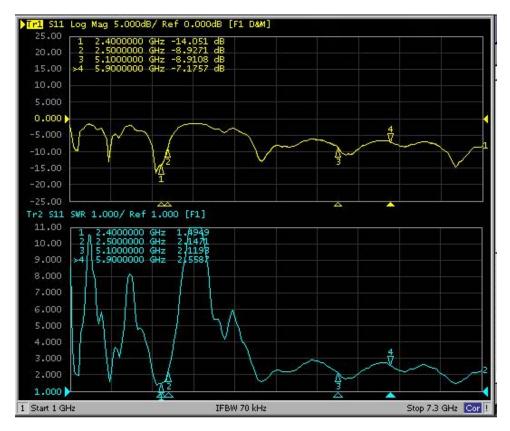
### 4-2 Performance Test (Local parts of the entire machine)







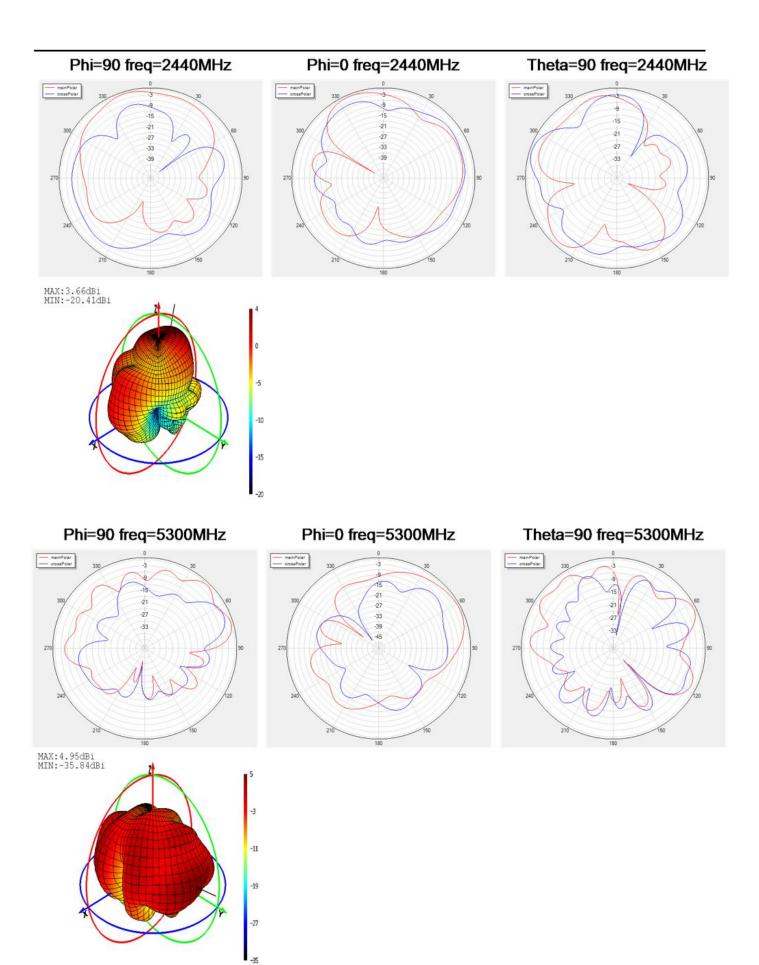
### S11 / VSRW coaxial line (White) L=150MM



4-3 Antenna 3 Efficiency (Local parts of the entire machine) coaxial line (Black) L=145MM

frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400	2.47	-3.95	40.25
2410	2.94	-3.72	42.5
2420	3.2	-3.72	42.46
2430	3.44	-3.69	42.8
2440	3.66	-3.73	42.32
2450	3.55	-3.86	41.1
2460	3.43	-4.04	39.45
2470	3.22	-4.2	38.03
2480	2.97	-4.34	36.83
2490	2.72	-4.47	35.73
2500	2.69	-4.33	36.91

frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
5100	3.52	-3.73	42.33
5150	3.69	-3.86	41.1
5200	4.05	-3.94	40.34
5250	4.38	-3.86	41.09
5300	4.95	-3.82	41.49
5350	4.31	-3.69	42.73
5400	4.19	-3.7	42.68
5450	3.86	-3.85	41.18
5500	3.55	-4.11	38.78
5550	3.34	-4.22	37.88
5600	3.33	-4.22	37.89
5650	3.29	-4.14	38.54
5700	3.26	-4.09	38.98
5750	3.23	-4.05	39.33
5800	3.23	-4.09	38.99
5850	3.17	-4.31	37.1
5900	3.24	-4.31	37.07



# Antenna 2 Efficiency (Local parts of the entire machine) coaxial line (Gray) L=160MM

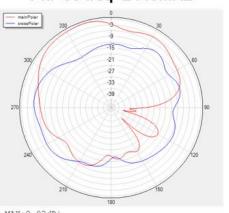
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400	1.63	-4.22	37.87
2410	2.01	-4.12	38.73
2420	2.35	-4.23	37.79
2430	2.58	-4.28	37.34
2440	2.93	-4.4	36.34
2450	2.57	-4.54	35.15
2460	2.33	-4.68	34.01
2470	1.98	-4.82	32.94
2480	1.63	-4.98	31.77
2490	1.3	-5.16	30.46
2500	1.19	-5.34	29.23

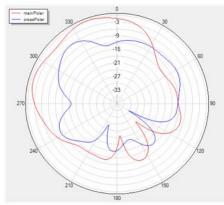
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
5100	1.05	-5.83	26.1
5150	1.37	-5.7	26.93
5200	1.99	-5.65	27.24
5250	2.73	-5.4	28.86
5300	3.34	-5.31	29.42
5350	3.74	-5.16	30.46
5400	3.85	-5.2	30.18
5450	3.8	-5.16	30.45
5500	3.9	-5.13	30.72
5550	4.23	-4.91	32.3
5600	4.57	-4.79	33.18
5650	4.89	-4.66	34.17
5700	5.45	-4.61	34.6
5750	4.9	-4.56	34.99
5800	4.73	-4.61	34.59
5850	4.31	-4.69	33.93
5900	4.39	-4.54	35.13

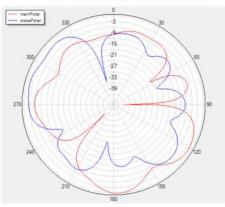
#### Phi=90 freq=2440MHz

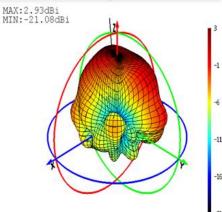
#### Phi=0 freq=2440MHz

#### Theta=90 freq=2440MHz





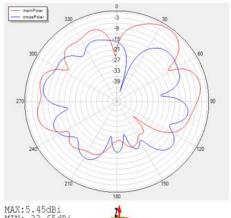


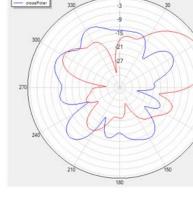


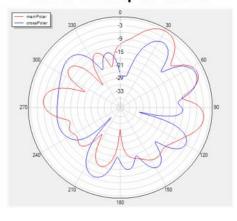
#### Phi=90 freq=5700MHz

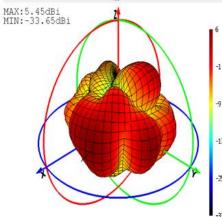
Phi=0 freq=5700MHz

Theta=90 freq=5700MHz





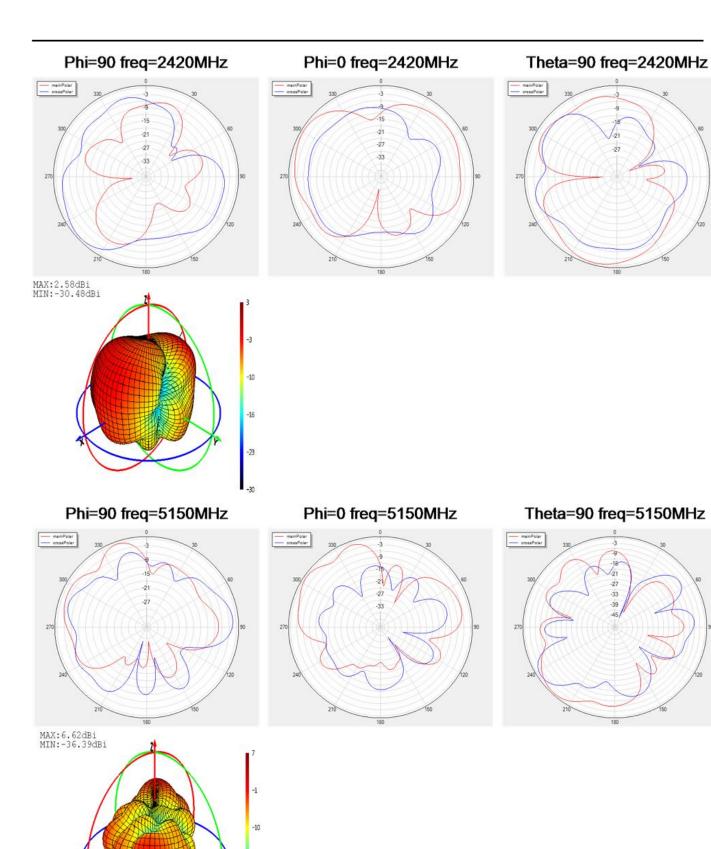




# Antenna 1 Efficiency (Local parts of the entire machine) coaxial line (White) L=150MM

frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400	2.28	-3.49	44.81
2410	2.46	-3.42	45.52
2420	2.58	-3.58	43.82
2430	2.45	-3.67	42.91
2440	2.39	-3.81	41.55
2450	2.29	-3.99	39.9
2460	2.16	-4.18	38.18
2470	2	-4.35	36.76
2480	1.84	-4.5	35.48
2490	1.66	-4.7	33.9
2500	2.46	-4.42	36.12

frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
5100	6.46	-3.14	48.54
5150	6.62	-3.14	48.49
5200	6.51	-3.27	47.13
5250	6.4	-3.28	47.02
5300	6.11	-3.46	45.05
5350	5.75	-3.58	43.88
5400	5.33	-3.87	41.03
5450	4.85	-4.15	38.46
5500	4.49	-4.44	36.01
5550	4.23	-4.62	34.48
5600	4.04	-4.8	33.11
5650	3.92	-4.89	32.42
5700	3.85	-4.95	32
5750	3.71	-5.09	30.98
5800	3.63	-5.32	29.35
5850	3.51	-5.61	27.46
5900	3.45	-6.18	24.12



#### 5. Packaging Standard

Product Material No.: P010133778

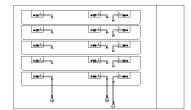
Product specification: Coaxial antenna 24~2.5GHZ417dBi5.15-5,85GH417dBi130x15mm195mm. PEX-generation terminal CB3COAX3 root coaxial line length 195mm, 160mm, 100mm, 3M SH

li. Packaging
requirements
and operation
instructions:

1. Internal packaging:

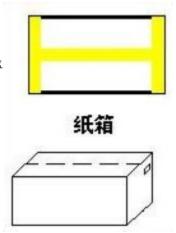
Product 2 PCS into the small PE bag

Product 25 PCS small Pe bag into the big PE bag



#### 2. Packaging:

Quantity / box according to the actual packing



#### matters need attention:

- 1. Whether to add a partition board, pearl cotton;
- 2. Attachment of labels, such as ROHS;

## 6. Reliability test report

## 6 Reliability test standards

t€	est item	test method	acceptance standard	Judgment results
1	V.S.W.	Set the network analyzer parameters for testing	According to the specifications to be tested	P ASS
2	Plug in damage	Set the network analyzer parameters for testing	According to the specifications to be tested	P ASS
3	salt atmospher	Temperature 35° C humidity 95% saline concentration 5%; test for 24 hours	After 2H, there was no obvious bad appearance: frequency offset of 5%	P ASS
4	constant temperat ure and humidity	Temperature 80° C test 12H to-40° C Test 12H: Humidity 90%: Test 24 hours	After 2H, there was no obvious bad appearance: frequency offset of 5%	P ASS
5	strain relief test	Tometer test product connector and terminal tension greater than; 1 Kgf	Visual inspection / measurement meets SOP requirements, no shedding, poor contact	PASS

#### 7. Disabled Material Guarantee

#### 禁用物质保证(Certification of Restricted Substance)

我方保证所提供的物料,完全遵守签核的广州视源电子科技股份有限公司/或其子公司的质量和环保协议中的各项条款,物料中禁用物含量,符合最新版《有害物质管理规范》中的各项标准.

We hereby certify that all the Material fully conform to the requirements of the ShiRuan/or its affiliated companies Declaration of Conformity that had been signed, and the maximum concentration value of restricted substance in Materials comply with the latest 《 Regulations on the management of hazardous substances.》

公司盖章