



Shenzhen Yimingyuan Technology Co., Ltd

APPROVAL SHEET

catalog

Customer	Linkward	Specs	A02
Part Number	AW028-A02-021-A0	Frequency Band	2.4G WIFI
Color	black	Edition	REV:A
Salesperson	Lu Liangliang	Design	Lei Yaobo
Structure	Qin Yunlin	Confirm	
Date	2022/03/25	Signing Date	
Customer confirmation:			
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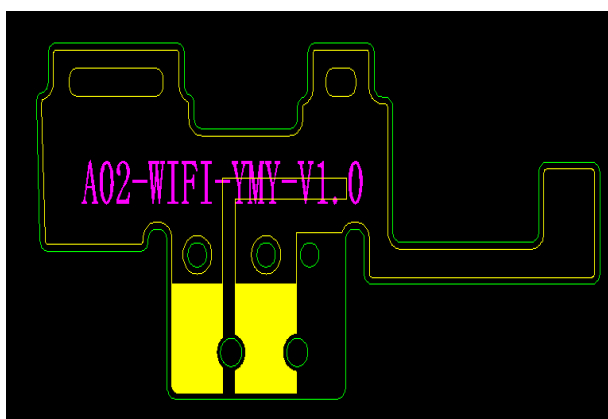
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一、Product specifications

The report mainly provides parameter testing of A02 antenna performance. A02 antenna is a WIFI antenna。 (As shown in Figure 1 below)

Figure 1 A02 antenna



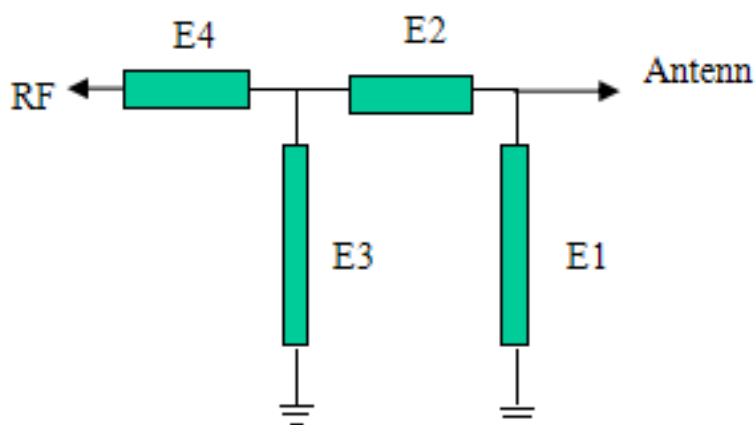
二、Electrical performance

1.Specification standards

The A02 antenna operates in the frequency range of 2400~2500MHz, where resonance occurs。

2.Matching circuit of antenna

The structure of the antenna: FPC

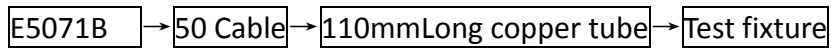




三、Parameter testing

1.Test settings

VSWR The connection of the testing device in sequence is:



Handling of testing fixtures:

Use a hard cable to lead out the SMA-J connector from the 50 ohm test point of the antenna on the battery PCB, connect it to the copper tube with a choke coil, and then connect other devices in sequence。

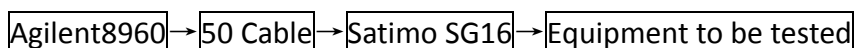
2.test result

Ok.



四、Settings for active testing

The active testing device is sequentially connected as follows::



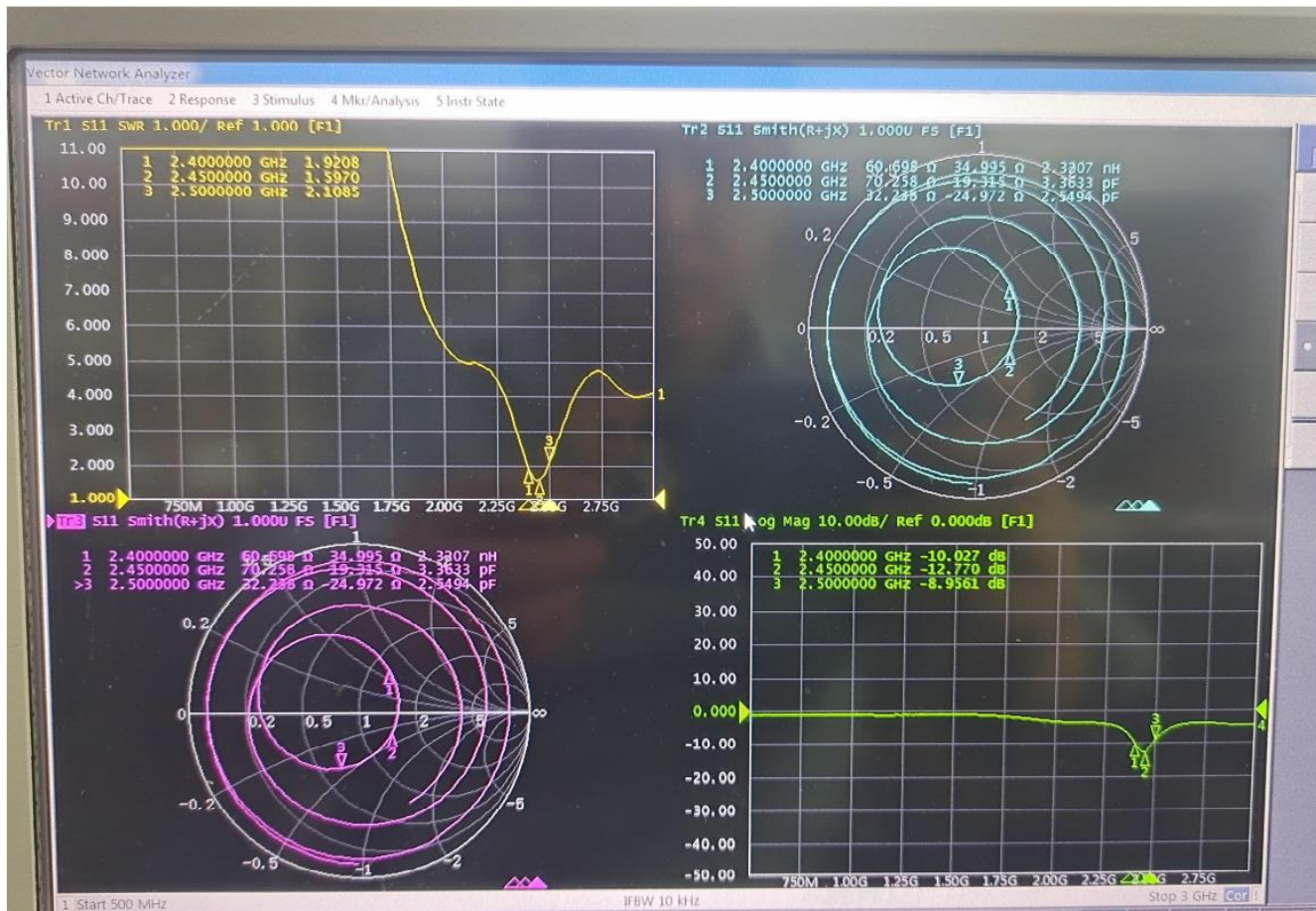
1.Testing site

AW microwave anechoic chamber: The testing frequency range is 400MHz-6GHz, the quiet zone range is 40cm circumference, and the reflectivity is less than -90 dB.

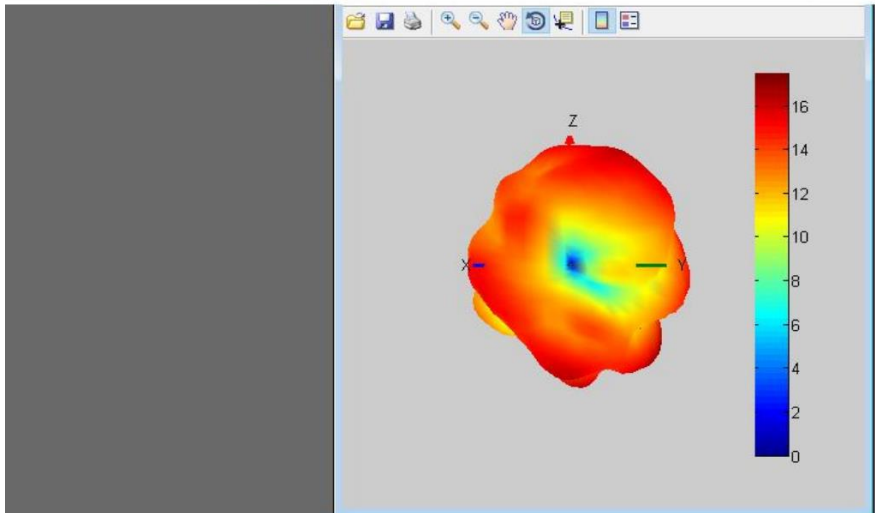
2.test result

The maximum radiated power and maximum receiving sensitivity reflect the maximum power radiation value and optimal receiving performance of the antenna in the entire radiation space. TRP and TIS reflect the average radiated power and average receiving sensitivity of the antenna, which reflects the overall receiving performance of the antenna. The following are the active test results of A02 antenna:

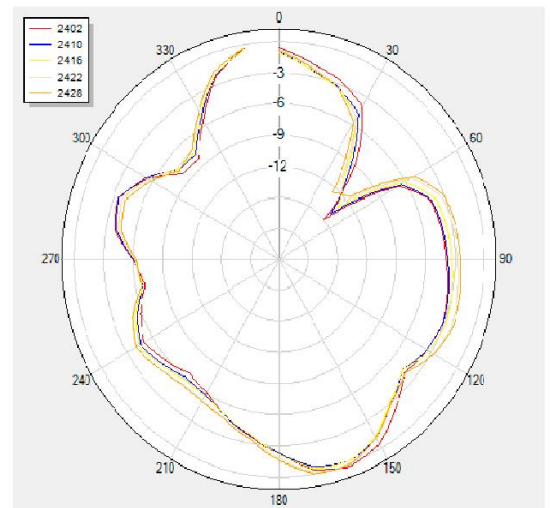
BAND	2. 4GWIFI					
CHANNEL	low	medium	high			
TRP (dBm)	15. 7	16. 2	16. 6			
TIS (dBm)	-82. 3	-82. 4	-83. 2			

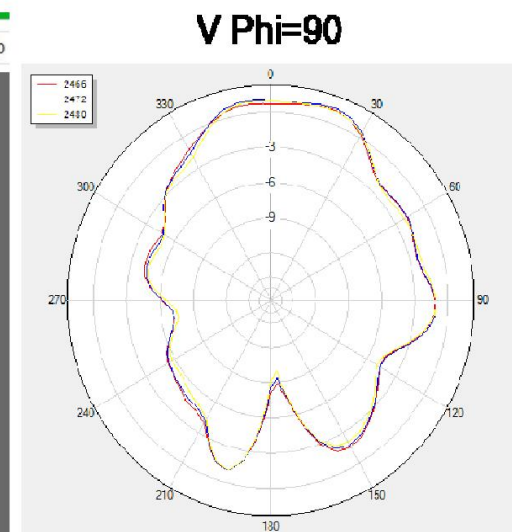
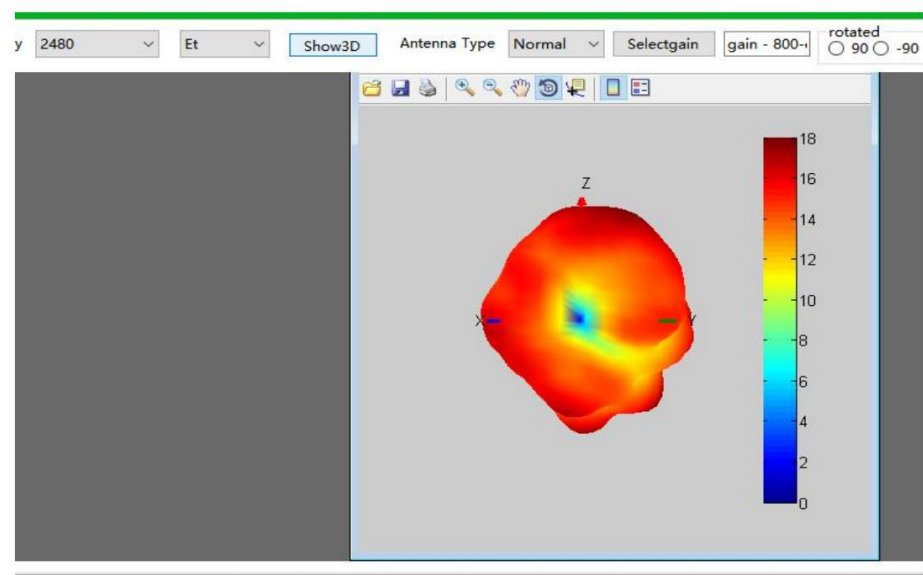
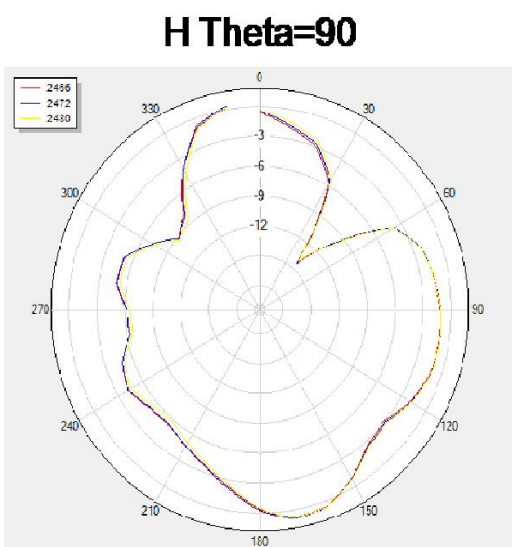
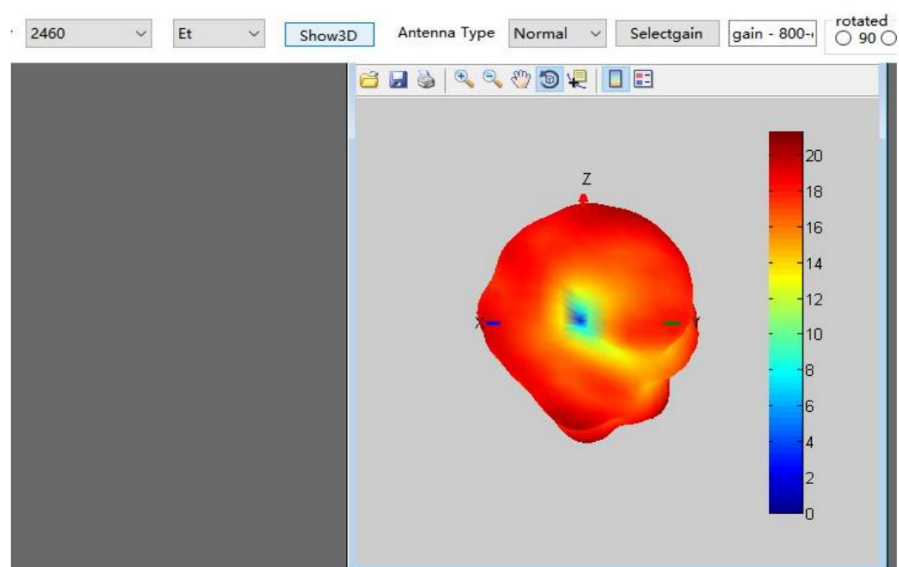
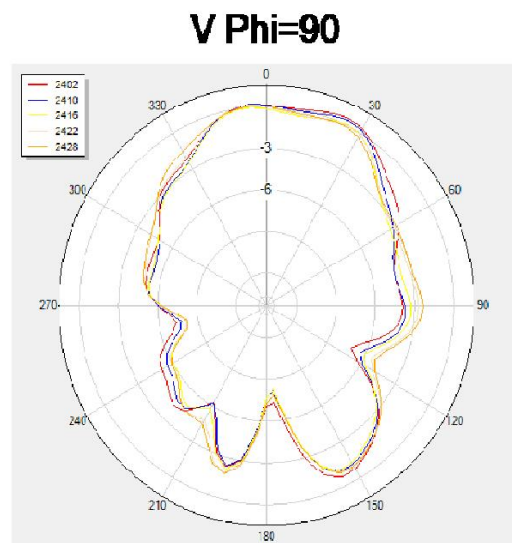
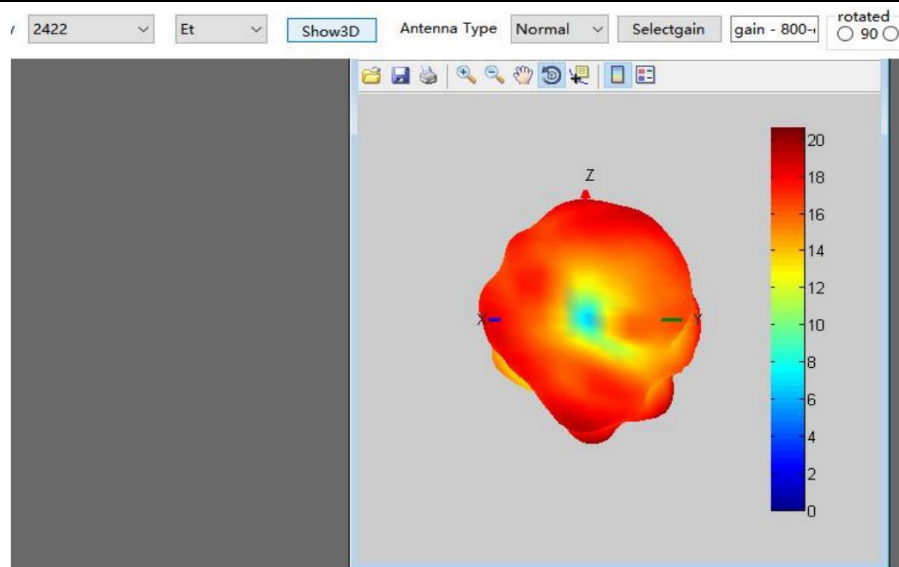


2402 Et Show3D Antenna Type Normal Selectgain gain - 800- rotated 90



H Theta=90



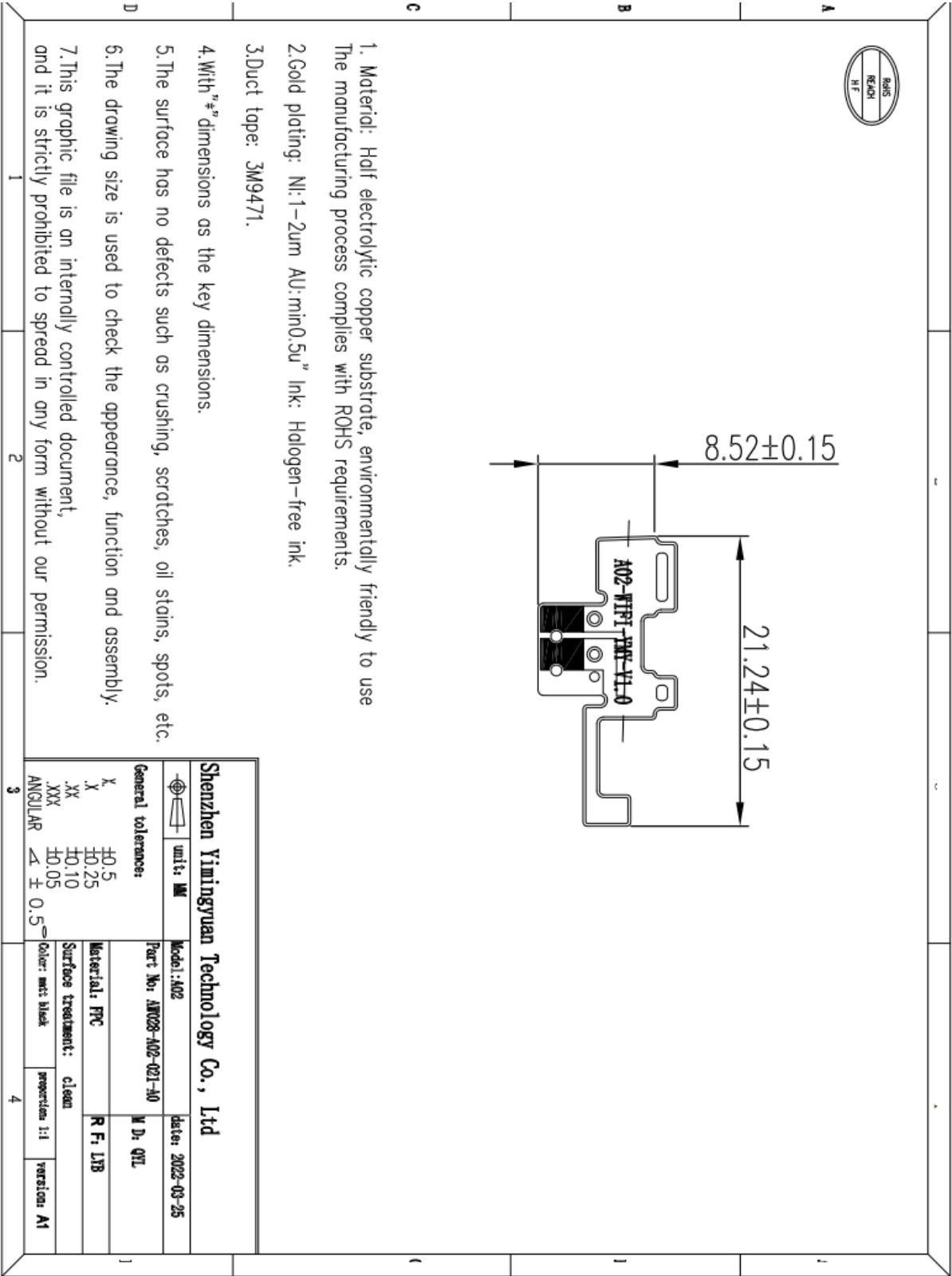




五、Efficiency & Gain

Frequency (MHz) (工作频段)	Efficiency (%) (效率)	Peak Gain (dBi) (增益)
2400	60.90	1.88
2410	60.08	1.84
2420	60.85	1.79
2430	57.66	1.51
2440	55.80	1.59
2450	57.22	2.00
2460	55.98	2.16
2470	55.28	2.23
2480	57.12	2.34
2490	58.46	2.28
2500	60.28	2.38

六、structural drawings





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