

SPECIFICATION APPROVAL SHEET

Sample Confirmation Letter

Feitian Chengxin Technology Co., Ltd



Project Name: **F600**

Material Code: **01.02.021.000044**

Supplier: ZhejiangHaitongCommunication
Electronics Co., LTD

Delivery time: **2025.01.09**

Version: **V1.0**

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quality	Material name	antenna			Description	F600/ Structure / 3-in-1 antenna/No cable			
	P\N	01.02.021.000044			MPN	B.1.01.L.0733			
	Vendor	ZhejiangHaitongCommunicationElectronics Co., Ltd			Manufacturer	ZhejiangHaitongCommunication Electronics Co., Ltd			
	Sample QTY	6PCS			Model	F600			
	Address	Zhejiang Haitong Communication Electronics Co., Ltd							
	RoHS	☐ FA, ☐ REJ, ☐ N/A,			Information complete	☐ FA, ☐ REJ, ☐ N/A,			
	Consistency	☐ FA, ☐ REJ, ☐ N/A,							
	Result: ☐ FA, ☐ Risk Go QTY_____, ☐ REJ. Risk go or reject comment: SQE: Remark: Appearance limit sample is confirmed by SQE and PQE together.								
PQM	Test report	☐ FA, ☐ REJ, ☐ N/A,			OTR confirm	☐ FA, ☐ REJ, ☐ N/A,			
	Test report	☐ FA, ☐ REJ, ☐ N/A,			Design Fix	☐ FA, ☐ REJ, ☐ N/A,			
	Result: ☐ FA, ☐ Risk Go QTY_____, ☐ REJ.								
	Risk go or reject comment: PQM:								
R&D	Dimension	☐ FA, ☐ REJ, ☐ N/A,			Specification	☐ FA, ☐ REJ, ☐ N/A,			
	Function	☐ FA, ☐ REJ, ☐ N/A,			Color	☐ FA, ☐ REJ, ☐ N/A,			
	Manual content	☐ FA, ☐ REJ, ☐ N/A,			Appearance	☐ FA, ☐ REJ, ☐ N/A,			
	Packing	☐ FA, ☐ REJ, ☐ N/A,			Safety certificate	☐ FA, ☐ REJ, ☐ N/A,			
	Result: ☐ FA, ☐ Risk Go QTY_____, ☐ REJ.								
	Risk go or reject comment:								
	Confirmer	ID	PCAKING	ME	HW	SW	DEVICE	Approval	Manager
	Note: the color, appearance and color limit samples of the structural parts shall be confirmed by ID representative. The contents of the specification shall be confirmed by software and packaging material representative together, and the packaging material representative shall confirm the packaging material. The structure material is confirmed by structure representative, the structure electronic material is confirmed by structure and hardware representative. The electronic material is confirmed by hardware representative. Device expert and software is responsible for the confirmation of corresponding devices, such as battery, camera, screen etc.								
	Important inspection items (R&D comment)						☐ N/A,		
NO.	Key inspection item			Standard request		Confirmer		remark	
vendor	Stamp			Quality confirm		RD redact			
Note: FA means receiving. REJ means rejecting. N/A means not applicable;									

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PRODUCT BASIC INFORMATION FORM (1-9)

Supplement when appropriate:

1) VENDOR NAME \PRODUCT NAME

Zhejiang Haitong Communication Electronics Co., Ltd\BJ0357-F600-COMBO

2) PRODUCT DESCRIPTION :

BJ0357_COMBO_A

3) P\N :

01.02.021.000044

4) VENDOR P\N :

B.1.01.L.0733

5) MANUFACTURER P\N :

B.1.01.L.0733

6) FIRST UES PHONE MODEL \ VERSION :

F600\A

7) ENVIRONMENTAL CONFORMANCE:

RoHS



HF



REACH



OTHER :

_____.

8) PRODUCT SHELF LIFE AND STORAGE CONDITION:

1.Storage conditions: temperature: 17 ° C - 23 ° C, humidity: 55 rh - 65 rh (2) stored in l temperature, low humidity, no corrosive gas environment.Please use it within one week after opening the package.

2.Product shelf life: 12 months

9) ADDRESS OF MANUFACTURING SITE:

Zhejiang Haitong Communication Electronics Co., Ltd

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Sample Confirmation Letter

edition	Acknowledge the change	Alteration party	date
V1.0	First edition	Lin Fang	2025/1/9
V2.0			
V3.0			

Product Dimension Inspection Report																			
Description		BJ0357		Revision		BJ0357_COMB_FPC / A板				Date				2025.1.9					
Sample status		batch		technology		FPC				temperature and		25C° 55%				signature		Zhang Ling	
Testing Summary:		There are 6 key dimensions ≤80% in the drawing, 0 in early warning and 0 in > in 100%.														signature		Sun Wei	
		There are 7 pieces of general size ≤80% on the drawing, 0 pieces of early warning, and 0 pieces of > 100%.														signature		Zhang Baojian	
Drawing specifications					detection result					Detection information							Handling suggestions		Measurement
Size number	Size properties	Basic dimensions	Lower tolerance	upper tolerance	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Tolerance range determination				Maximum deviation reference			Supplier Quality Control/Project Manager's Opinion	Customer Comment	
										≤50%	≤80%	early warning	> 100%	Worst data	Tolerance percentage	Exceeding the tolerance zone value			
1	★	30.77	-0.15	0.15	30.83	30.84	30.84	30.7	30.78	√				30.840	47%				C
2	★	23.42	-0.15	0.15	23.40	23.46	23.39	23.36	23.49	√				23.460	27%				C
3		2.70	-0.30	0.30	2.70	2.57	2.59	2.61	2.56		√			2.570	43%				C
4		0.12	-0.03	0.03	0.12	0.12	0.13	0.12	0.12		√			0.130	33%				C
5		1.50	-0.30	0.30	1.57	1.46	1.48	1.51	1.53		√			1.570	23%				C
notes:																			
4、Instructions for using measuring tool codes: C: 二次元 ★: 重点																			

Cpk report

Part Number	01. 02. 021. 000044		Vendor	haitong	
Description	BJ0357_COMB_FPC		Inspected	Zhang Baojian	
Tool Number	/		Inches/MM	mm	
Cavity	/		Material Name	/	
			Material Code	PI	
Revision	A		Date	2025. 1. 9	
Dim.Designator	FAI 1	FAI 2	FAI 3	FAI4	FAI5
Nominal	30. 77	23. 42			
+ Tolerance	0. 15	0. 15			
- Tolerance	-0. 15	-0. 15			
Upper Limit	30. 92	23. 57			
Lower Limi	30. 62	23. 27			
1	30. 8	23. 38			
2	30. 74	23. 46			
3	30. 72	23. 47			
4	30. 8	23. 43			
5	30. 79	23. 36			
6	30. 75	23. 47			
7	30. 76	23. 39			
8	30. 77	23. 44			
9	30. 75	23. 45			
10	30. 81	23. 37			
11	30. 72	23. 41			
12	30. 78	23. 47			
13	30. 81	23. 47			
14	30. 76	23. 43			
15	30. 8	23. 46			
16	30. 76	23. 38			
17	30. 8	23. 41			
18	30. 75	23. 41			
19	30. 78	23. 46			
20	30. 81	23. 41			
21	30. 79	23. 41			
22	30. 81	23. 44			
23	30. 75	23. 42			
24	30. 83	23. 46			
25	30. 76	23. 45			
26	30. 83	23. 41			
27	30. 8	23. 42			
28	30. 79	23. 39			
29	30. 81	23. 42			
30	30. 83	23. 42			
31	30. 74	23. 43			
32	30. 72	23. 38			
MAX.	30. 83	23. 47			
MIN.	30. 72	23. 36			
AVERAGE	30. 78	23. 42			
STDEV	0. 03	0. 03			
CP	1. 52	1. 56			
Cpk	1. 43	1. 51			
TOOLING	二次元	二次元			

Reliability Test Report

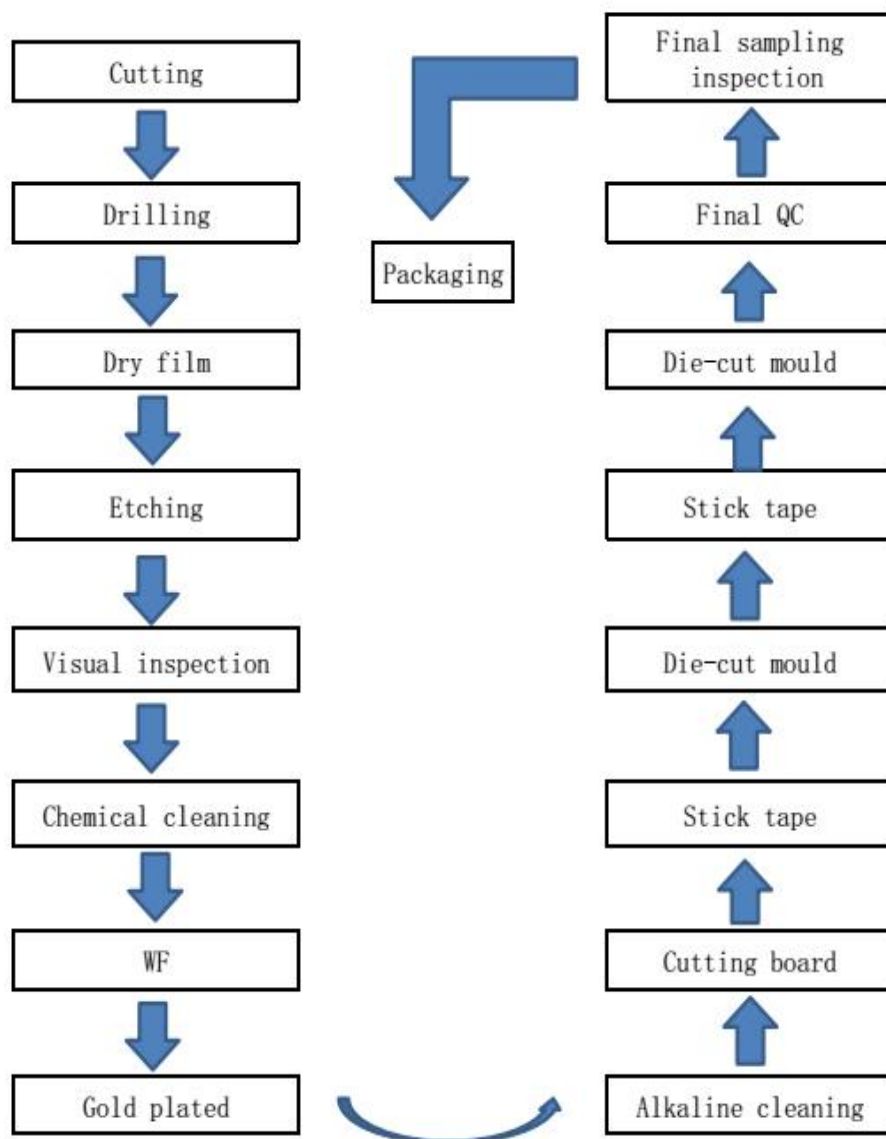
Customer	Feitian Integrity	Written By	Zhang Ling		Date	2025.1.9
Part Number	01.02.021.000044	Revised By	Sun Wei		Revised Date	2025.1.9
Description	BJ0357_COMB_FPC	Approved By	Zhang Baojian		Approved Date	2025.1.9
Date: 2025/1/7			Experimental code: 20250107001			
Experimental methods: Salt spray test			Experimental Standards: CB/T101251997			
Customer: Feitian Integrity						
sample	Description	BJ0357_COMB_FPC	Plating Thickness		Ni	Au
	technology	FPC			2-8um	≥0.03um
	Appearance before experiment	OK	number	7 PCS		
experimental condition	Date: 7日 11时 至9日 11时					
	spray time: 48小时		Moisturizing time: 48 小时			
	Laboratory temperature: 35℃±2℃		Pressure bucket temperature: 46℃±2℃			
	Laboratory relative humidity: 65%—75%		atmos: 101-02KPA			
	nacl concentration: 5%±0.5%		ph value: 6.5-7.2 (中性)			
Experimental Description	Appearance after experiment	Normal appearance, no obvious corrosion phenomenon				
	Appearance after removing corrosion products	Normal appearance				
experimental result	OK					
notes						

ected: Zhang Baojian

Written By: Zhang Ling

process flow diagram

Part Number:	01.02.021.000044	Written By:	Lin fang	Creation Date:	2025.1.9
Revision	BJ0357_COMB_FPC	Inspected:	Lin Haifeng	Approved Date:	2025.1.9



The above process does not include inspection of each process

Packing

general requirements:

- 1. Please provide the customer name, project name, and model number
- 2. Picture description of the inner and outer boxes, packaging method at the time of shipment.
- 3. Fill in the name and quantity of the materials used for packaging in the remarks column

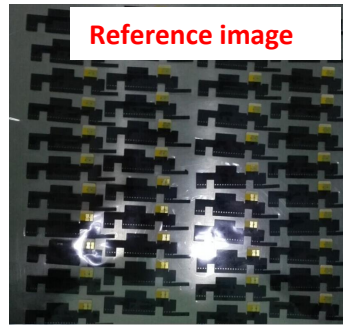


Figure 1: Inspection of OK products on PE film



Figure 2: Each 1000PCS is packed into a large PE bag and labeled with material labels.



Figure 3: After labeling, neatly place the large PE



Figure 4: After being packed into cardboard boxes according to the shipment quantity, the boxes are sealed and labeled with outer box labels such as month and

Product material no:	01.02.021.000044
The product name:	BJ0357_COMB_FPC
Product version:	A
The packing way:	PE film packaging
each layer	1000PCS/bag
Outer box	1000PCS/bag neatly placed in the cardboard box, confirm the quantity is OK, seal the box, and label the outer box.

1. Storage conditions: temperature: 17 ° C - 23 C, humidity: 55 rh - 65 rh (2) stored in low temperature, low humidity, no corrosive gas environment. Please use it within one week after opening the package.

The pictures are for reference only, subject to actual shipment.

Usage period: June



Restricted Substance Composition Survey Form

Supplier (Agent): Zhejiang Haitong Communication Electronics Co., Ltd

Product information provided				
The product name	Product name	Supplier material part number	manufacturer	Green Material Identification
01. 02. 021. 000043	BJ0357_COMB_FPC	B. 1. 01. L. 0732	Haitong	RoHS+HF

Product composition information														
Material Number	Component Name	Part number	weight/g	Third party testing report		Restricted substance content PPM								notes
				date	number	Pb	Cd	Hg	Cr ⁶⁺	PBB	PBDE	Br	Cl	
1	FPC	Substrate Industry	0.060	2022.06.17	A2220205292201001E	☐	☐	☐	☐	☐	☐	☐	87	BJ0357
		Gold plated Yushu		2021.09.10	A2210362801101C	☐	☐	☐	☐	☐	☐	☐	177	
		Text by Yuki Kawakami		2021.10.29	ETR21A04957M01	☐	☐	☐	☐	☐	☐	☐	625	
		Solder mask Youli		2021.09.06	ETR21805816 ETR21805824	☐	☐	☐	☐	☐	☐	☐	434	
		Adhesive backing 3M467		2021.09.04	HAEC2118728901 SHAEC2118728903	☐	☐	☐	☐	☐	☐	☐	136	

- Note:
1. Please use ○ and X to indicate whether the content of the six restricted substances is compliant or not; Compliant individuals are represented by ○; Non compliance is represented by X; Not involving NA representation.

2. PPM limit value: Cadmium<100PPM; Lead/mercury/hexavalent chromium/PBB/PBDE<1000PPM.

3. The total amount of lead, hexavalent chromium, mercury, and cadmium in packaging materials shall not exceed 100ppm.

4、Br<900PPM; Cl<900PPM; Br+Cl<1500PPM

4. Please have the supplier fill out this form completely and stamp it; (Provide stamped paper or scanned PDF file)

5. If the limited use substance exceeds the standard but meets the exemption clause, please specify in the remarks.

6. The validity period of the third-party testing report is one year

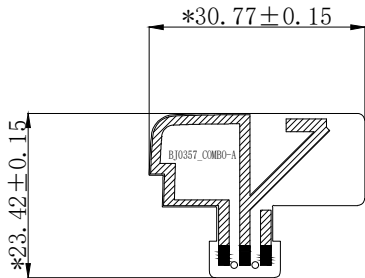
OQC Report

Document Number : HT-FM-PZ043 VERSION : A/1

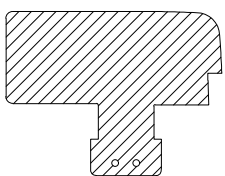
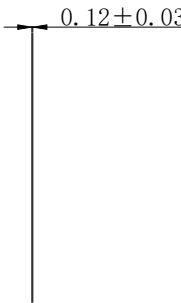
					number :		Q20250109002		
custom	Feitian Integrity	Revision	antenna	number	65	Order No	POORD202501095508		
custom code	01.02.021.000044	Production Batch	N20250109003	shipping date	2025/01/09		VERSIO N	A	
Sampling plan	MIL-STD-105E			Inspection level	II AQL=0.4				
Serial Number	Inspection items	Testing method		standard	Sampling number	Acceptable quantity of defective products	Tested number of defective products	determine OK/NG	
1	structure	Visual inspection		The structure of the product conforms to the requirements of the drawing	13	0	0	OK	
2	appearance	Visual inspection		According to the inspection reference book	13	0	0	OK	
3	package	Visual inspection		Consistent with packaging specifications	Complete inspection	0	0	OK	
4	Size specification (mm)	+deviation	-deviation	Some of the actual measurements					determineOK/NG
5	30.77	0.15	0.15	30.83	30.84	30.84	30.7	30.78	OK
6	23.42	0.15	0.15	23.40	23.46	23.39	23.36	23.49	OK
determine (OK/NG)		OK							
manufacture :	Zhang Xingfeng	verify : Zhang Baojian							



1	2	3	4	5	6
LAB ☒	QE ☐	OQC ☒	IPQC ☒	IQC ☐	注塑 ☐ 冲压 ☒ 组装 ☒
N O .	DESCRIPTION	DESIGE	DATE		
A	Mass production release	zxt	2022.06.22		



TOP



BOTTOM

Shipping method: full
page half cut

- Technical requirements:
1. Reference drawing file of unknown size.
 2. Material: reference drawing file.
 3. Plating area: plating Ni(2-8μm) first, plating AU≥0.03μm later.
 4. Part marking: specify the silk-screen printing position according to the drawing.
 5. It is necessary to pass the FPC tests required by HAITONG quality department, and the salt spray test requires no oxidation on the surface of the product after 48H.
 6. Size requirements:
 - 6.1 ST size: The size of any 35pcs selected from a minimum of 500pcs is measured for CPK analysis;
 - 6.2 The size with "*" is the key control size.
 7. First batch of items: Randomly select 5pcs for size measurement, report and transfer to HAITONG Quality Department.
 8. Any modification of materials and drawings must be approved in writing by HAITONG R&D and Engineering Department.
 9. The products meet the requirements of ROHS/HF/REACH.

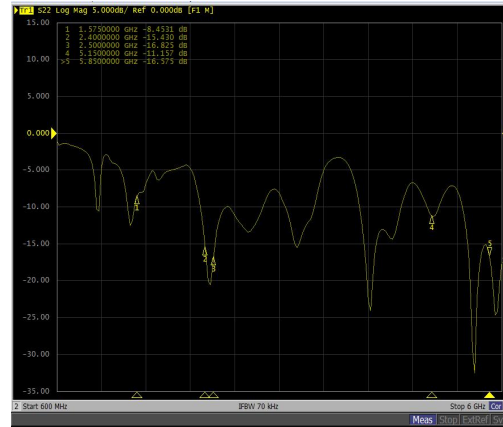
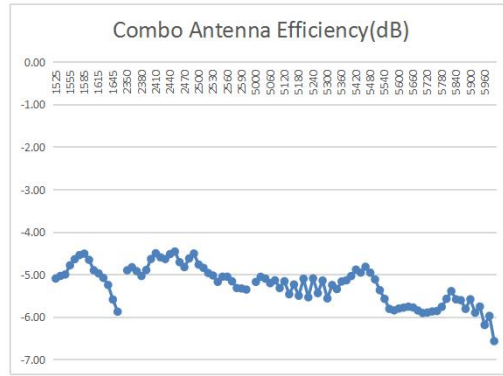
7.Silk screen character	white	
6.Printing ink	black	15 μ m
5.ED copper	0.5 OZ	18 μ m
4.AD glue	/	20 μ m
3.PI	1 MIL	25 μ m
2.Double-sided tape	3M 467	50 μ m
1.Release film	/	100 μ m
LEVEL	DECRPTION	

NHAI 浙江海通通讯电子股份有限公司
ZHEJIANG HAITONG COMMUNICATIONS

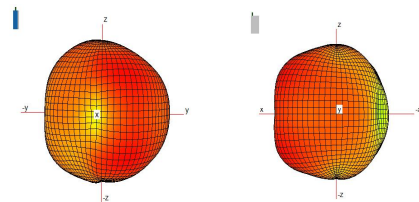
PROJECT NAME: F 600			
PRODUCT NAME: NA			
App: E D	HT成品码:	B.1.01.Y.0709	
CHKD:	HT半成品码:	NA	
DWN: 赵西亭	客户编码:	NA	
SCALE: 1:1	PAGE: 1/1	REV: A	
UNIT: mm	SIZE: A4	DRWING NO:	BJ0357_COMBO-FPC

NO TOLERANCE		
THIS DOCUMENT IS PROPERTY OF HAITONG PRECISION TECHNOLOGY.LT IS CAN NOT BE COPIED,UPDATED AND TAKEN OUT COMPANY, UNLESS BE ALLOWED.		

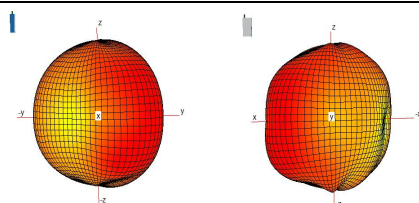
Frequency	Efficiency (dB)	Gain (dBi)
1525	-5.09	1.14
1535	-5.03	1.11
1545	-4.99	0.44
1555	-4.78	0.92
1565	-4.63	1.37
1575	-4.54	1.67
1585	-4.50	1.81
1595	-4.65	1.74
1605	-4.89	1.48
1615	-4.97	0.85
1625	-5.07	0.53
1635	-5.24	0.47
1645	-5.58	0.71
1655	-5.87	0.14
2350	-4.89	0.51
2360	-4.82	1.47
2370	-4.91	1.43
2380	-5.03	1.19
2390	-4.89	1.21
2400	-4.63	1.53
2410	-4.49	1.72
2420	-4.59	1.48
2430	-4.63	1.33
2440	-4.51	1.56
2450	-4.45	1.65
2460	-4.70	1.15
2470	-4.82	0.83
2480	-4.61	1.03
2490	-4.50	1.09
2500	-4.76	0.59
2510	-4.84	0.53
2520	-4.96	0.24
2530	-5.02	0.25
2540	-5.16	0.42
2550	-5.04	0.93
2560	-5.04	0.83
2570	-5.15	0.57
2580	-5.31	0.60
2590	-5.32	0.76
2600	-5.35	0.59
5000	-5.17	1.34
5020	-5.05	1.43
5040	-5.09	1.35
5060	-5.20	1.26
5080	-5.13	1.28
5100	-5.31	0.91
5120	-5.15	1.09
5140	-5.46	0.61
5160	-5.23	1.08
5180	-5.49	0.60
5200	-5.09	1.16
5220	-5.53	0.34
5240	-5.08	1.24
5260	-5.43	0.52
5280	-5.13	1.18
5300	-5.56	0.38
5320	-5.24	0.91
5340	-5.34	0.67
5360	-5.16	1.15
5380	-5.13	0.81
5400	-5.03	0.95
5420	-4.88	1.03
5440	-4.95	0.87
5460	-4.81	1.26
5480	-4.95	1.27
5500	-5.11	1.41
5520	-5.26	1.07
5540	-5.56	0.93
5560	-5.80	0.67
5580	-5.84	0.90
5600	-5.79	0.87
5620	-5.77	1.19
5640	-5.75	1.26
5660	-5.77	1.46
5680	-5.84	1.37
5700	-5.90	1.61
5720	-5.89	1.54
5740	-5.86	1.70
5760	-5.85	1.87
5780	-5.75	2.19
5800	-5.56	2.40
5820	-5.38	2.63
5840	-5.58	2.42
5860	-5.60	2.26
5880	-5.80	2.06
5900	-5.57	2.29
5920	-5.89	1.98
5940	-5.75	2.30
5960	-6.18	2.03
5980	-5.97	2.30
6000	-6.56	1.96



1575



2450



5500

