

SPECIFICATION

APPLICATION FOR APPROVAL

CUSTOMER : 中興通訊股份有限公司
CS P/N : ZTE T12
PART NAME : INTERNAL ANTENNA
DEVE NO. : AUK0819B
AUDEN NO. : N/A
DATE : Feb.13.2012
Release : Full release

Customer Approval			
RF ENGINEER	MECHANICAL ENGINEER	R&D MANAGER	PRODUCT MANAGER
AUDEN COMMUNICATIONS&MULTIMEDIA TECHNO (KUNSHAN) CO.LTD			
RF ENGINEER	MECHANICAL ENGINEER	R&D MANAGER	PRODUCT MANAGER

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REVISION

REV.NO.	DATE	DESCRIPTION
0	Feb.13.2012	APPROVAL

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0. DEFINITIONS

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
PCS	Personal Communication System
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access
PHS	Personal Handy-phone System
SAR	Specific Absorption Rate
PCB	Printed Circuit Board
TBD	To Be Defined
P	Parallel connection
S	Series connection

1. ELECTRICAL SPECIFICATIONS

1-1 FREQUENCY BAND

Freq. Band	Tx(MHz)	Rx(MHz)
GPS	1565~1585	1565~1585
BT	2400~2500	2400~2500
WIFI	2400~2500	2400~2500

1-2 IMPEDANCE

Nominal Impedance(including matching circuit) : **50** ohms

1-3 MATCHING REQUIREMENTS

The matching circuit on the PCB of the handset is according to Figure 1-3.

Optimum matching circuit is highly dependent on the handset and thus.

Final matching circuit layout and values will be defined when handset is available.

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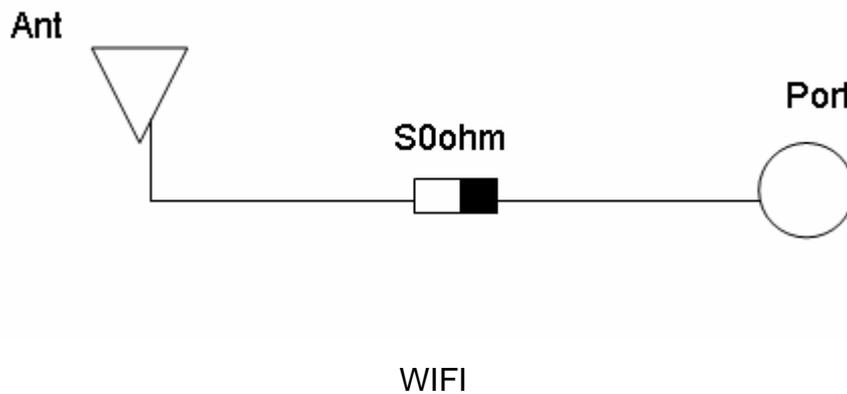
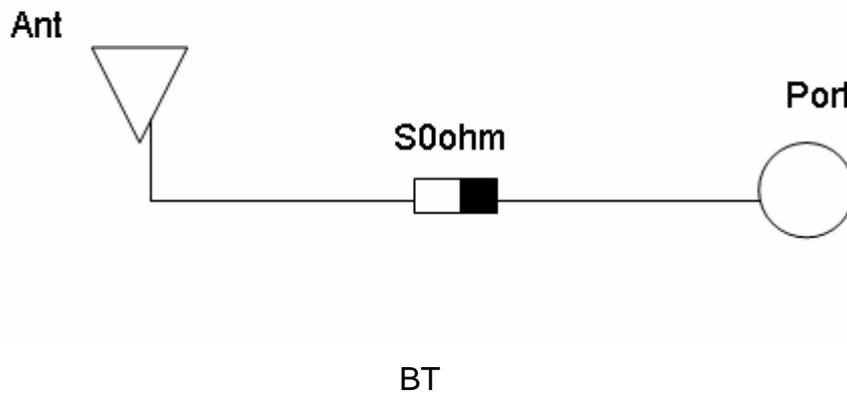
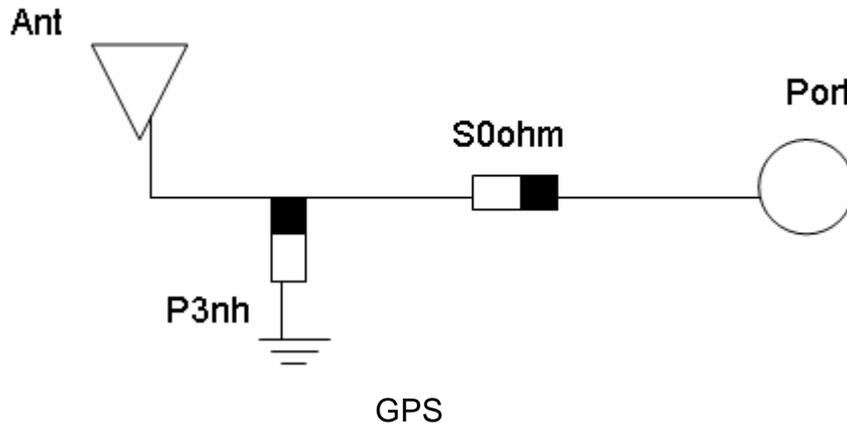
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Figure 1-3

1-4 VSWR

FREE SPACE

1575MHz	≦ 1.6
2400MHz	≦ 2.0
2500MHz	≦ 3.2

- ※Measuring a 50Ω test jig is connected to a network analyzer to measure the VSWR.
- ※※All test value is done in customer approval fixture.

2. MECHANICAL SPECIFICATIONS

2-1 MECHANICAL CONFIGURATION

The appearance of the antenna is according to Figure 2-1

3. ENVIRONMENTAL CHARACTERISTICS

NO.	ITEM	TEST CONDITION	SPECIFICATION
3-1	Low Temperature Test	1. Temperature: -40±2°C 2. Time: 48hrs	No material deformation is allowed.
3-2	High Temperature Test	1. Temperature: +70°C ±2°C 2. Time: 48hrs	
3-3	High Temperature/Humidity Storage Test(non operating)	1. Temperature: +60 ±2°C 2. Humidity: 90~93%RH 3. Time: 48hrs	
3-4	Salt-Spray Test	35°C, 85%RH, 48Hours(According to MIL-STD-810E) The salt-spray is generated from a 5% salt(NaCl) solution.,	NO appear rusting phenomenon is allowed

4. PACKAGING

Antenna to be packed in compartmentalized blisters tray. Each 35 pcs per tray.

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5. APPENDIX

All of the specifications are shown as the attached files.

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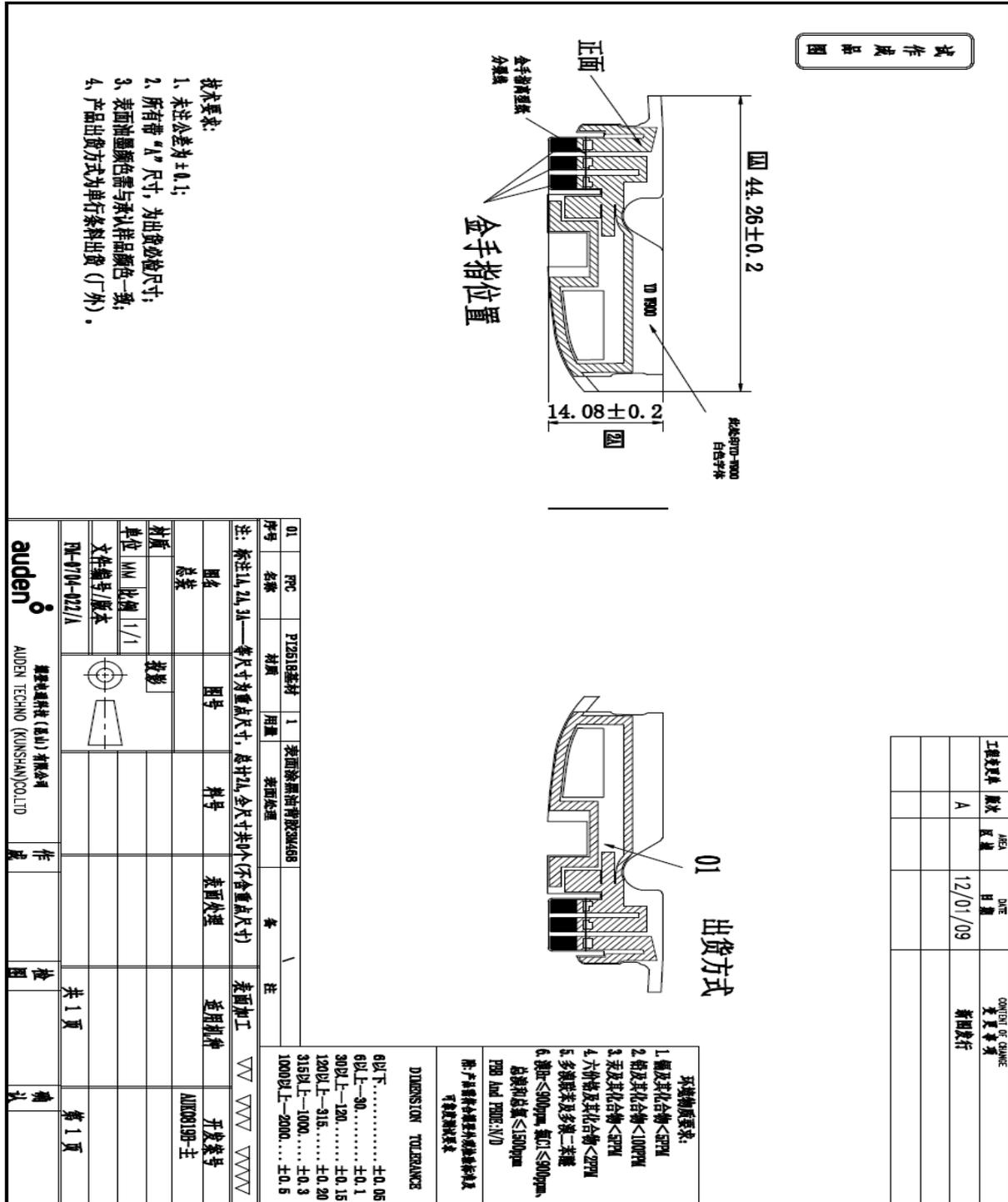


Figure 2-1

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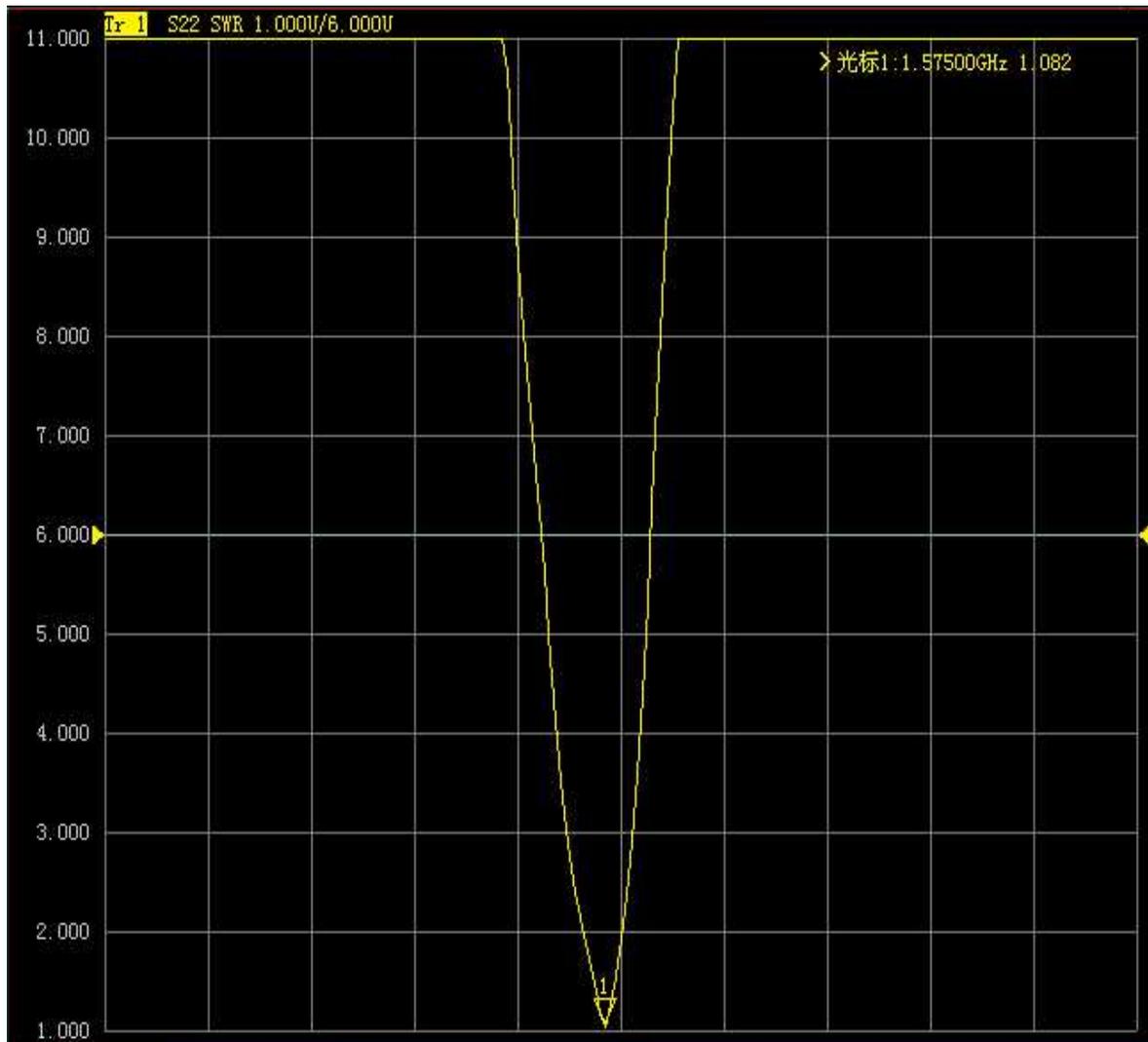
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Model No: ZTE T12	<i>File: 2012-02-13</i>
Deve No:AUK0819B-GPS	Note: VSWR
<i>Sample No:</i>	
Test Condition: FREE SPACE	Matching: 范伟凡
Confirmation:	Engineer: ANT-P3NH-S0ω-PORT



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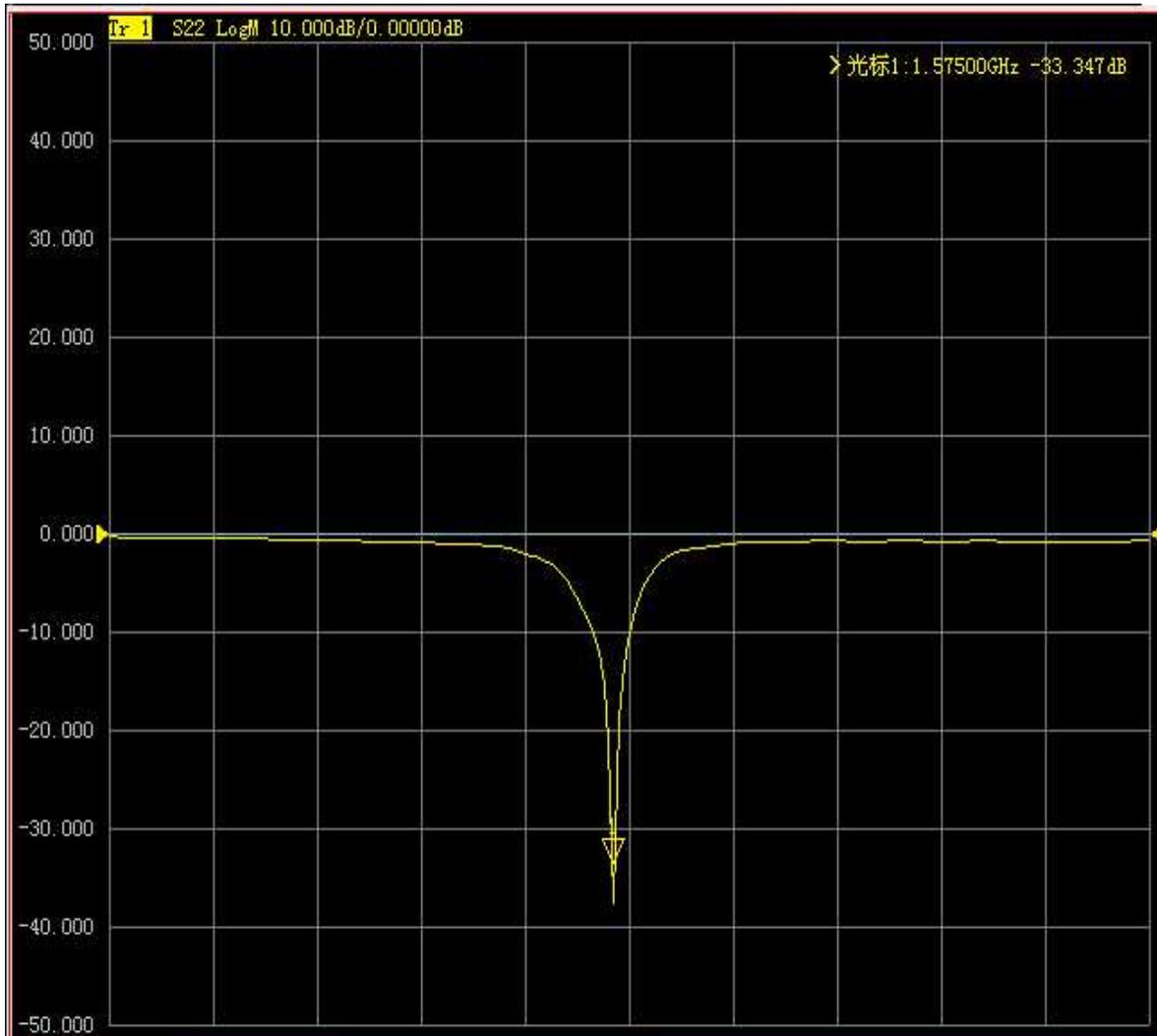
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Model No: ZTE T12	<i>File: 2012-02-13</i>
Deve No:AUK0819B-GPS	Note: RL
<i>Sample No:</i>	
Test Condition: FREE SPACE	Matching: 范伟凡
Confirmation:	Engineer: ANT-P3NH-S0ω-PORT



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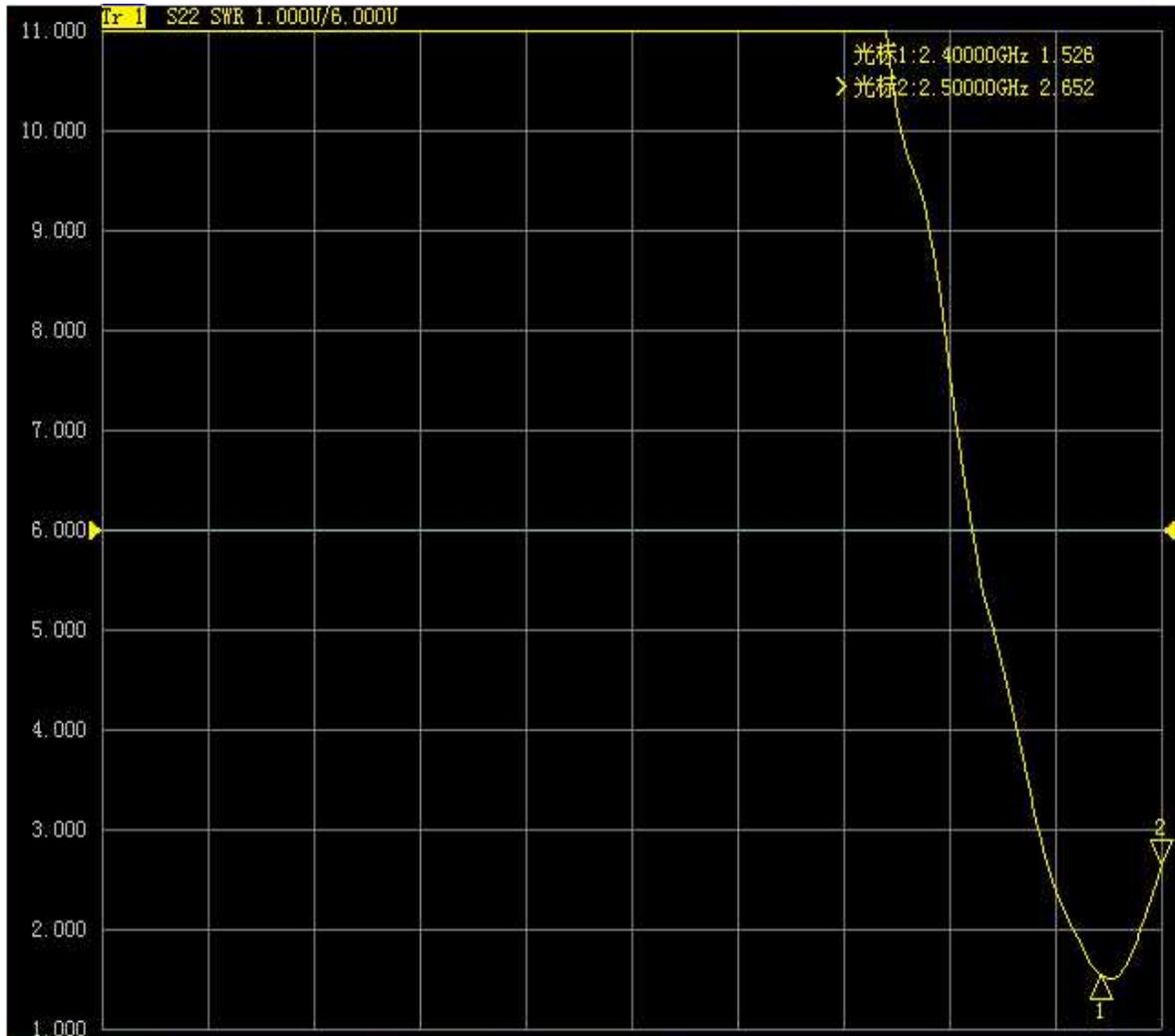
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Model No: ZTE T12	<i>File: 2012-02-13</i>
Deve No:AUK0819B-BT	Note: VSWR
<i>Sample No:</i>	
Test Condition: FREE SPACE	Matching: 范伟凡
Confirmation:	Engineer: ANT-S0ω-PORT



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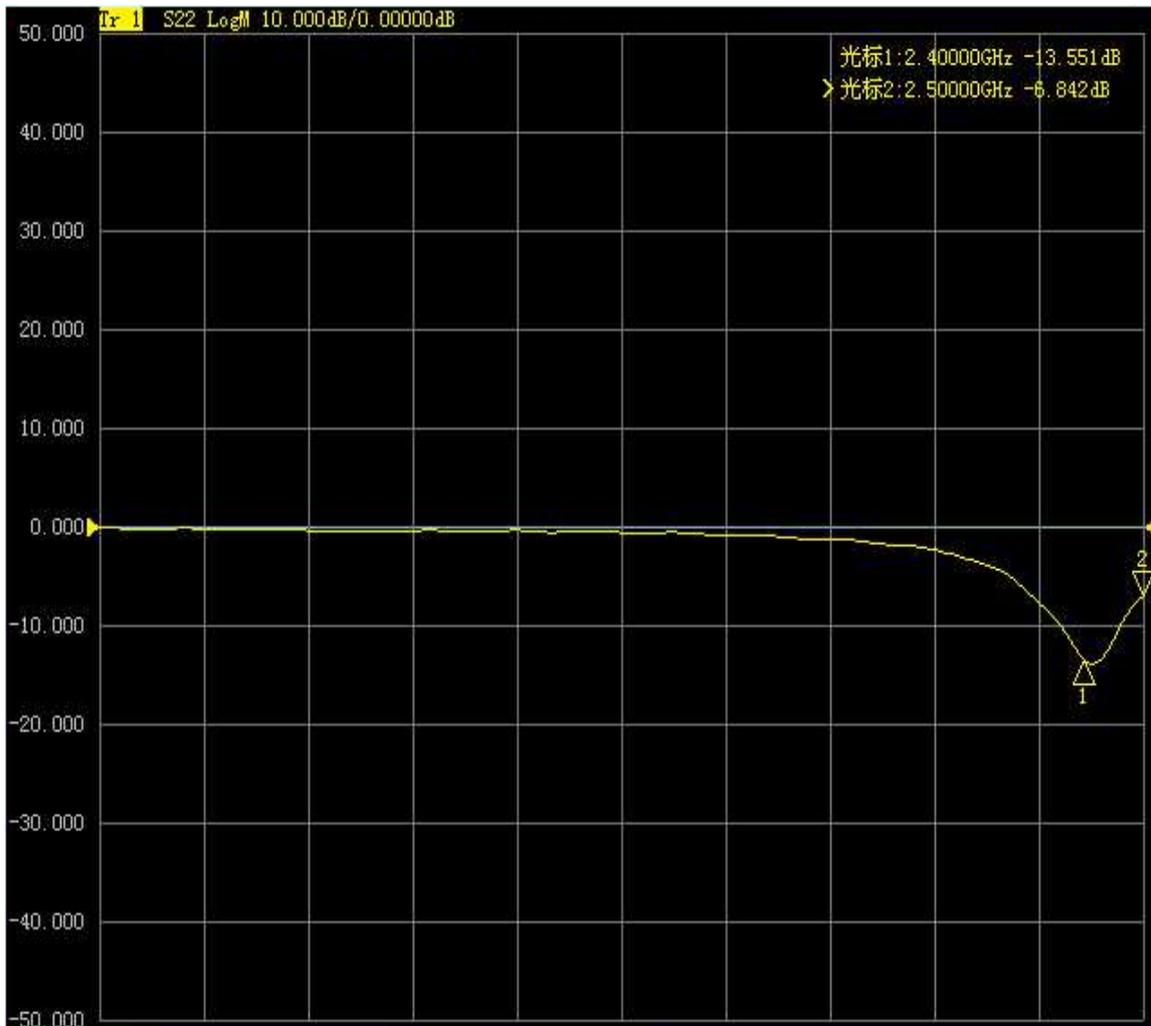
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Model No: ZTE T12	File: 2012-02-13
Deve No:AUK0819B-BT	Note: RL
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Test Condition: FREE SPACE	
Confirmation:	Matching: 范伟凡
	Engineer: ANT-S0@-PORT



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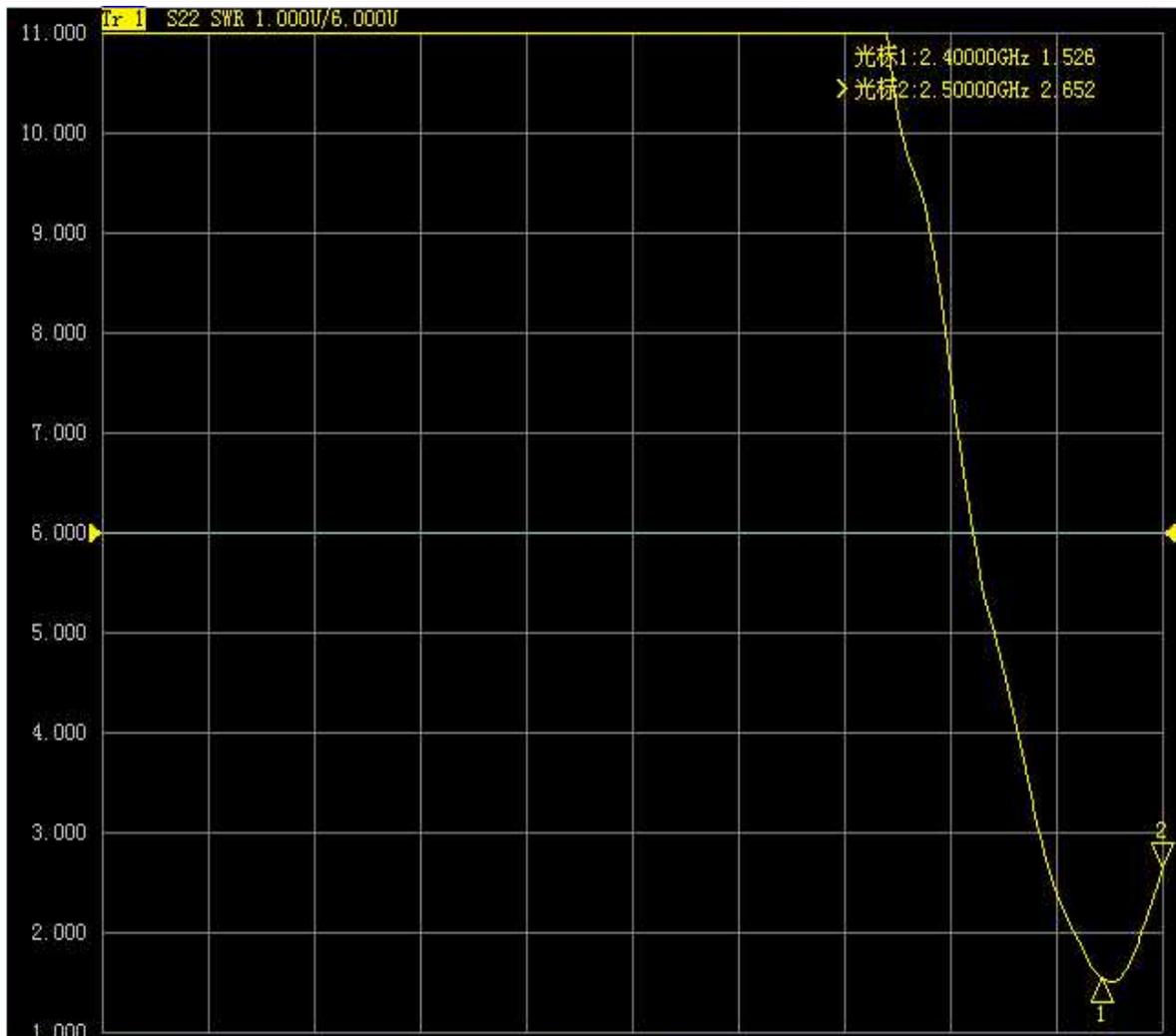
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Model No: ZTE T12	<i>File: 2012-02-13</i>
Deve No:AUK0819B-WIFI	Note: VSWR
Sample No:	
Test Condition: FREE SPACE	
Confirmation:	Matching: 范伟凡
	Engineer: ANT-S0ω-PORT



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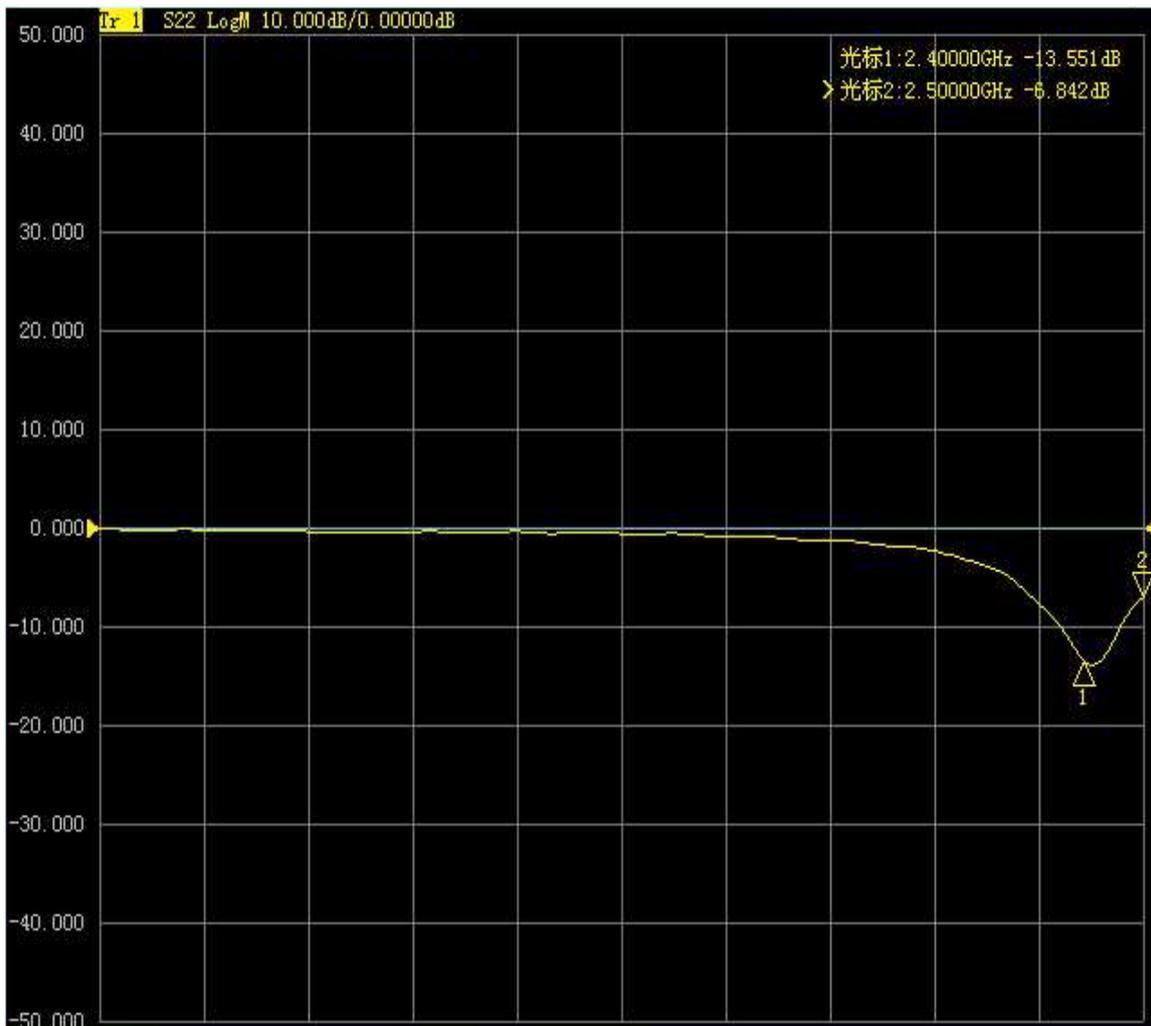
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Sample No:	
Test Condition: FREE SPACE	
Confirmation:	Matching: 范伟凡
	Engineer: ANT-S0@-PORT



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