

SPECIFICATION APPROVAL SHEET

CUSTOMER : _____

CUS PART NO : _____ REV X1

SPECIFICATIO : 2.4~2.5/5.15~5.85GHz
WIFI Antenna L=80mm(Ø1.13+MHF) weight _____

SUP PART NO : SLEingB218890080

Date : 2019.10.23

SUP APPROVED :

APPROVED	CHECKED	QA CHECKED	承办 DESIGNED
<i>Joseph</i>	<i>JBX</i>	<i>ZQ</i>	<i>Xiongy</i> 2019.10.23 工程部

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

东莞市森岭智能科技有限公司
DONGGUAN CITY SLEing INTEL-TECH CO., LTD

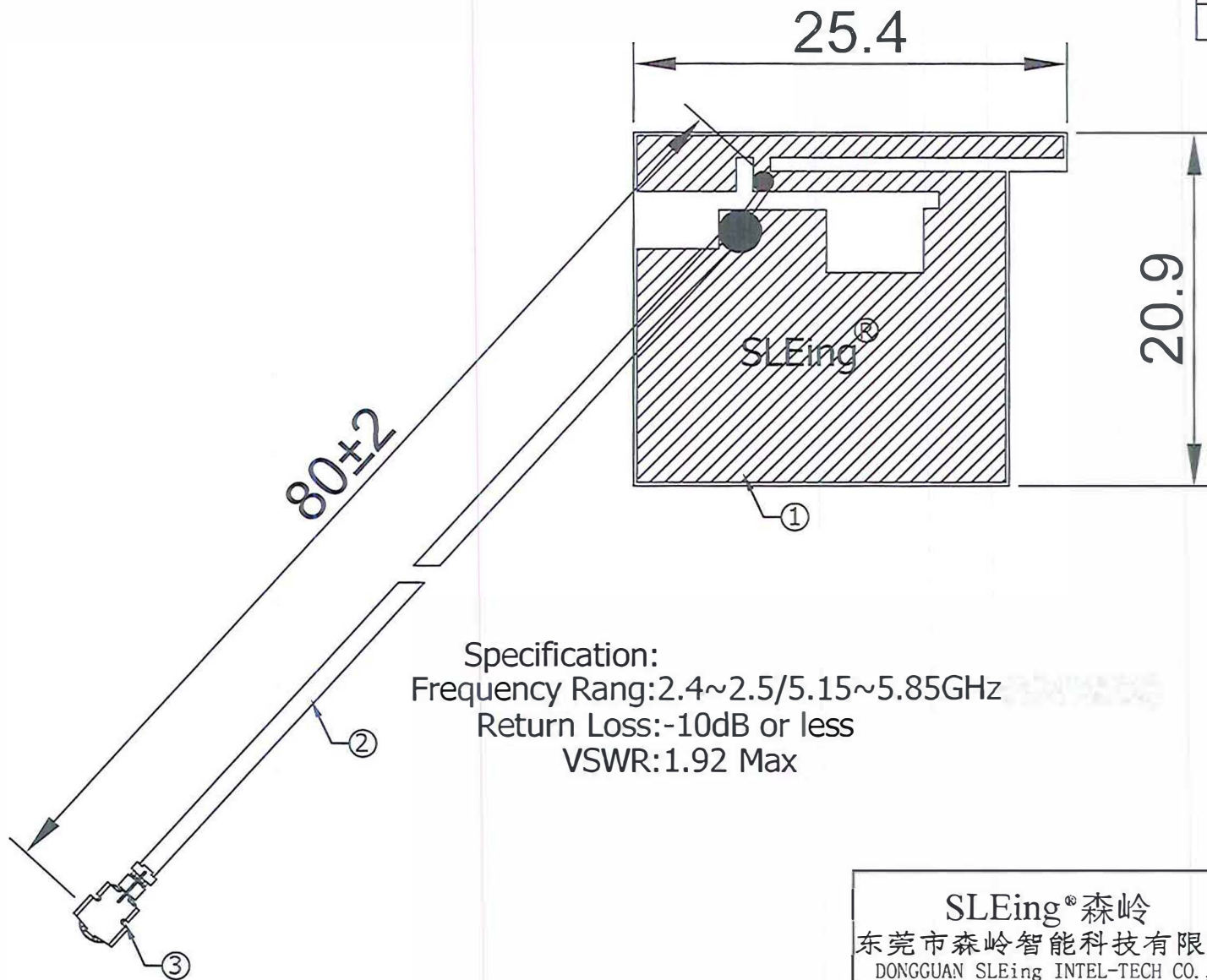
中国广东省东莞市松山湖工业东路24号现代企业加速器6栋402
Room 402, No. 6 Plant, Accelerator of Modern Enterprise, No. 24 Industry East Road
Songshanlake District, Dongguan City, Guangdong Province, China.

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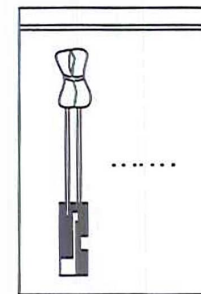
www.sleing.com

正本由承办单位保存

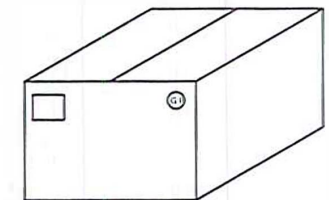
REV.	CONTENT	DATE
X1	First Sample	2019.10.23



Specification:
 Frequency Rang: 2.4~2.5/5.15~5.85GHz
 Return Loss: -10dB or less
 VSWR: 1.92 Max



25pcs/Bundle
Packing: 50pcs/bag



外箱须贴GP标签与物料标签各1PCS

SLEing® 森岭 东莞市森岭智能科技有限公司 DONGGUAN SLEing INTEL-TECH CO., LTD		CUSTOMER	
		PART NO	
		TITLE	WIFI ANTENNA
		S.L P/NO	SLEingB218890080
 TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE	DRAWN
UNIT:mm ANGLES ±0.5° SHEET: 1/1 SCALE: 1/1		X. ±0.3	CHECKED
		XX. ±0.5	APPROVED
		XXX. ±2.0	


NO	PART NAME	DESCRIPTION	REMARK	Q'TY
3	Connector	MHF Plug for Φ1.13 Cable	第四代端子	1
2	Cable	Φ1.13mm Coaxial Cable Dark Grey, 50Ω		1
1	FPCB	FPC, L25.4*W20.9*T0.1mm, Color: Black	300LSE Adhesive	1

Handwritten signature: Xiang
 Date: 2019.10.23
 Department: 工程部 (Engineering Dept.)

Test Reports

Electrical Properties	
Frequency	2.4~2.5/5.15~5.85GHz(带机测试)
Impedance	50 Ohm Nominal
V.S.W.R	≤1.92
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	3.97 dBi (Max.)
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	Φ1.13mm Dark Grey
Operating Temp.	-40~+85 °C
Storage Temp.	-40~+85 °C

Antenna Profile

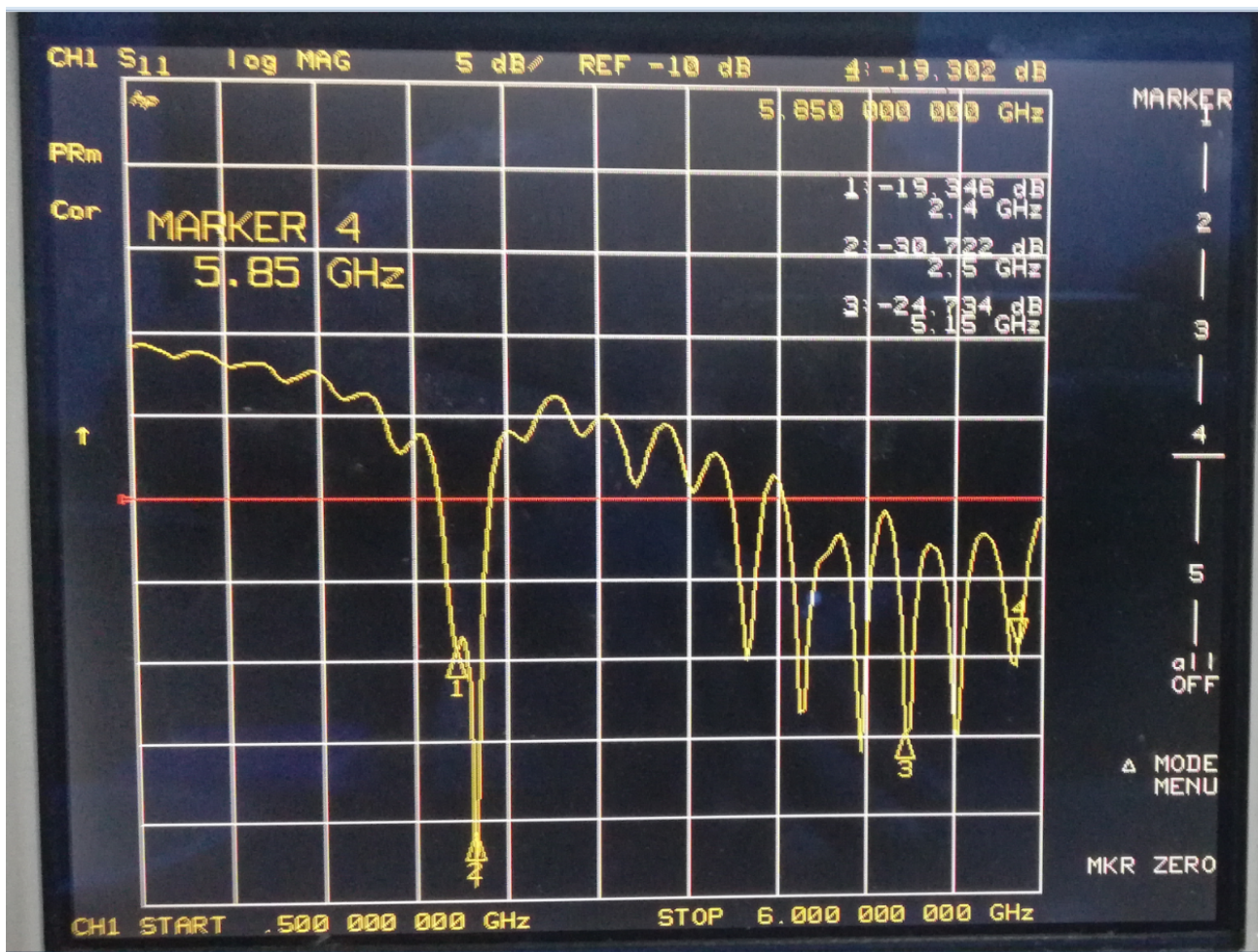
<p><i>Device</i></p>	
<p><i>Antenna</i></p>	

S Parameter Test

Agilent E5071C Network Analyzer

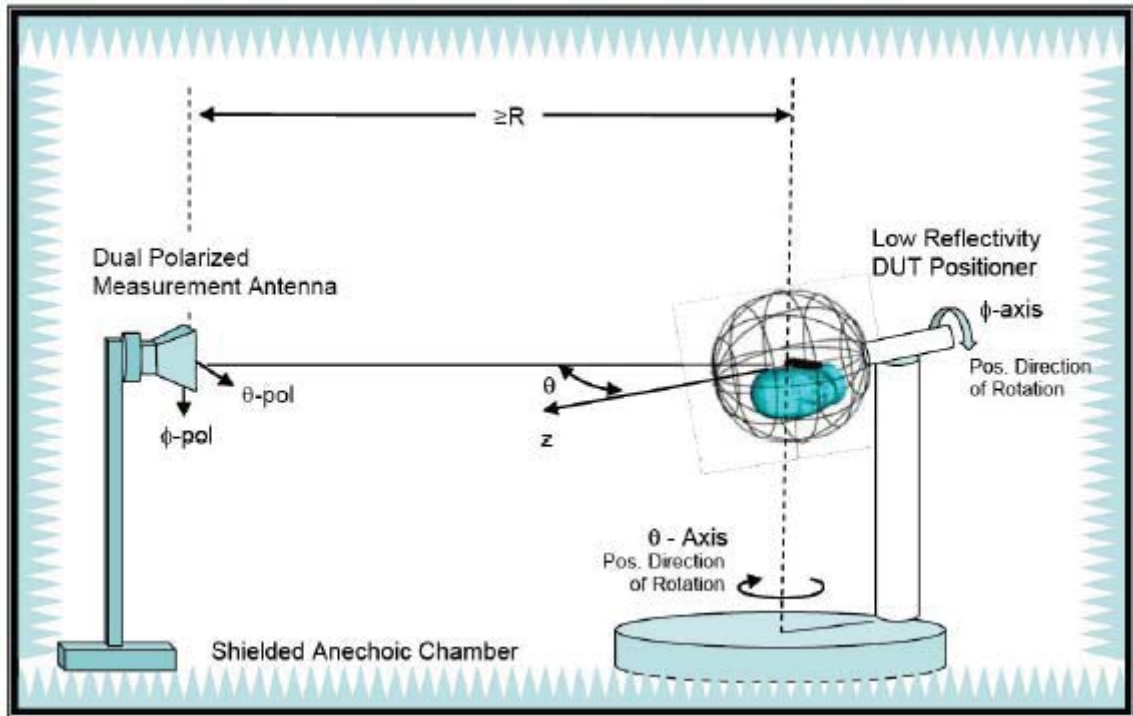
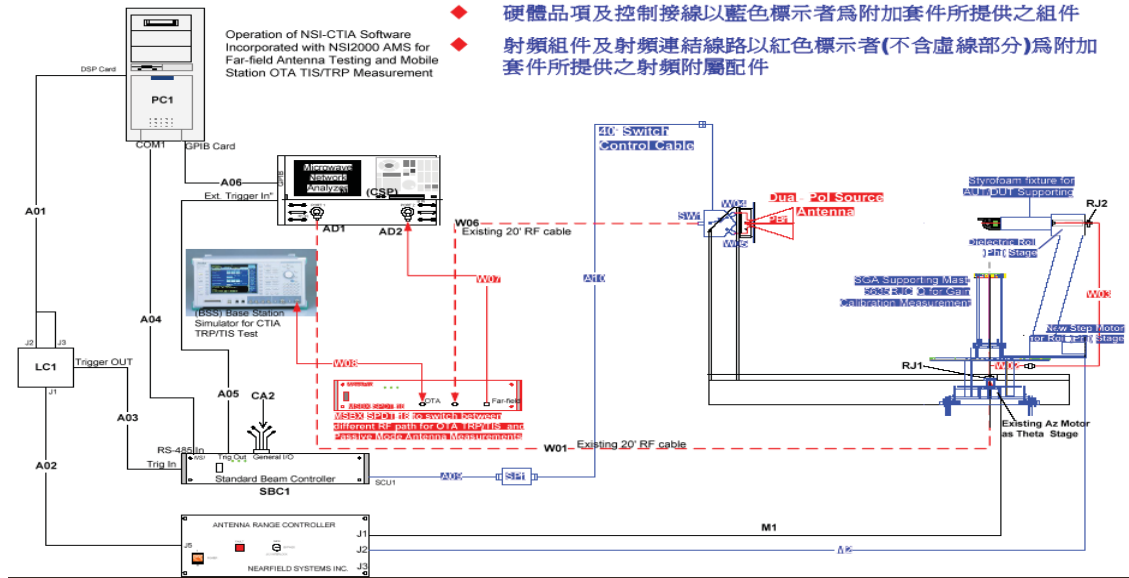


WiFi Antenna (NO.1)



Test Setup

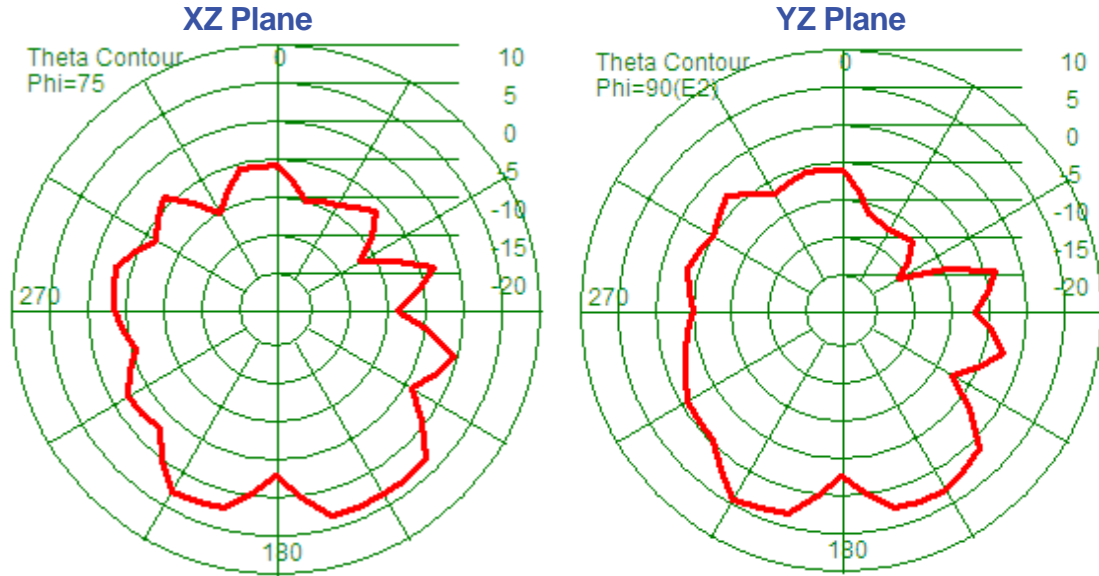
NFC-500S 3D Chamber Coordinate System Definition



Configuration of 3D Chamber

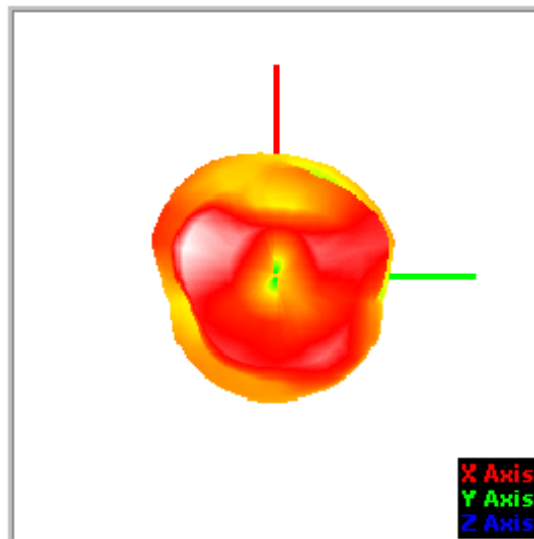
(2.4G) Patten

1.3 2D Radiation patterns test results (Passive Antenna)



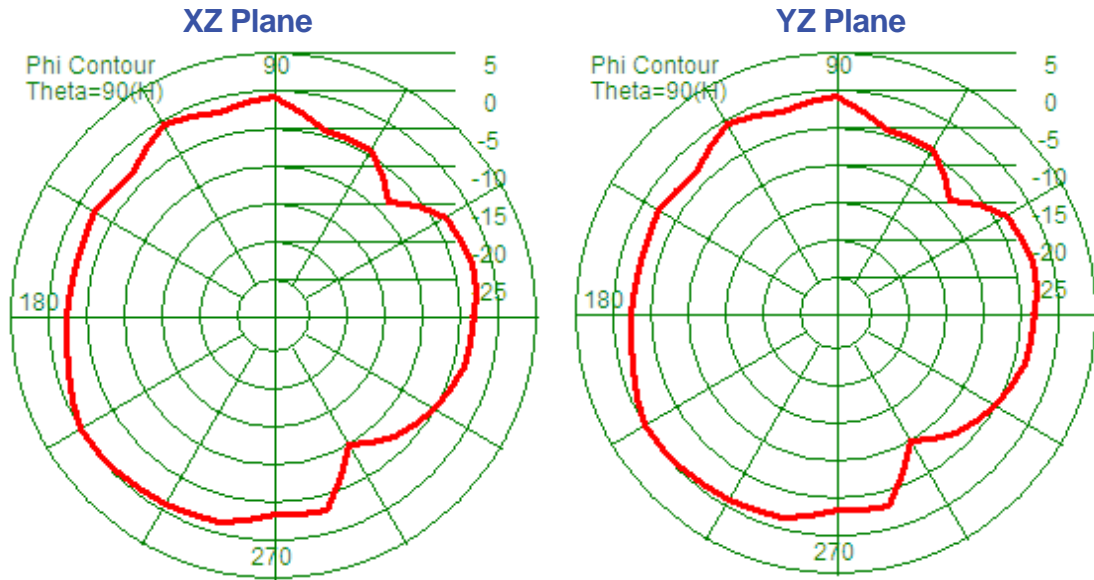
1.5 3D Radiation patterns test results (Passive Antenna)

3D



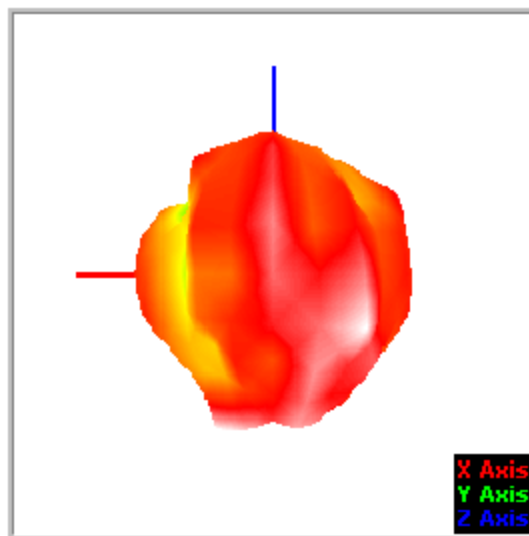
(5.8G) Patten

1.3 2D Radiation patterns test results (Passive Antenna)



1.5 3D Radiation patterns test results (Passive Antenna)

3D



Test Efficiency

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	3.05	68.4%
2	2410.0	3.97	68.7%
3	2420.0	3.75	64.1%
4	2430.0	3.30	72.5%
5	2440.0	3.79	66.8%
6	2450.0	3.58	73.4%
7	2460.0	3.70	65.8%
8	2470.0	3.23	71.7%
9	2480.0	3.83	75.7%
10	2490.0	3.08	65.2%
11	2500.0	3.16	66.3%

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	5150.0	0.88	50.5%
2	5250.0	1.28	53.9%
3	5350.0	1.77	58.5%
4	5450.0	1.30	58.2%
5	5550.0	1.86	56.1%
6	5650.0	1.70	56.2%
7	5750.0	1.27	56.2%
8	5850.0	1.32	54.3%