FCC REPORT

Applicant: SHENZHEN CHUANGXINQI COMMUNICATION CO., LTD

Rm 501B, Block A1, kexing Science Park, Keyuan North Rd.,

Address of Applicant: Science and Technology Park, Nanshan, Shenzhen,

Guangdong, China

Equipment Under Test (EUT)

Product Name: Smart Phone

Model No.: U1,U1A,U1B,G401,G401A,G401B,G401C,G401Y,G401W

Trade mark: iNew

FCC ID: 2ACI4-U1

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 19 Sep., 2014

Date of Test: 20 Sep., to 27 Oct., 2014

Date of report issued: 29 Oct., 2014

Test Result: Pass *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	29 Oct., 2014	Original

Prepared by: 29 Oct., 2014

Report Clerk

Reviewed by: 29 Oct., 2014

Project Engineer



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4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part15.107	Pass		
Radiated Emission	Part15.109	Pass		

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	SHENZHEN CHUANGXINQI COMMUNICATION CO., LTD		
Address of Applicant:	Rm 501B, Block A1, kexing Science Park, Keyuan North Rd., Science and Technology Park, Nanshan, Shenzhen, Guangdong, China		
Manufacturer:	SHENZHEN CHUANGXINQI COMMUNICATION CO., LTD		
Address of Manufacturer:	Rm 501B, Block A1, kexing Science Park, Keyuan North Rd., Science and Technology Park, Nanshan, Shenzhen, Guangdong, China		
Factory:	Hongjiada Electronics Co., Limited		
Address of Factory:	4 th Floor, C16 Building, Jiuwei Fuyuan Industrial Zone, Xi Xiang, Bao'an District, Shenzhen China 518000		

5.2 General Description of E.U.T.

Product Name:	Smart Phone				
Model No.:	U1,U1A,U1B,G401,G401A,G401B,G401C,G401Y,G401W				
Power supply:	Rechargeable Li-ion Battery DC3.7V-1800mAh				
AC adapter:	Model:ASUN30a-050100 Input:100-240V AC,50/60Hz 0.3A Output: DC 5.0V, 1000mA				
Remark:	item No.: U1, U1A, U1B, G401, G401A, G401B, G401C, G401Y,G401W were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being the appearance of different colors, the battery cover different mark.				

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.



5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	DELL MOUSE		N/A	DoC
HP	HP Printer		05257893	DoC
MERCURY	MERCURY Wireless router		12922104015	FCC ID

5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

● IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: 0755-23118282 Fax: 0755-23116366



5.7 Test Instruments list

Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.		Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	Aug. 23 2014	Aug. 22 2017		
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	Apr. 19 2014	Apr. 19 2015		
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	Apr. 19 2014	Apr. 19 2015		
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2014	Mar. 31 2015		
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2014	Mar. 31 2015		
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2014	Mar. 31 2015		
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2014	Mar. 31 2015		
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2014	Mar. 31 2015		
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2014	Mar. 31 2015		
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2014	June 08 2015		
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2014	Mar. 31 2015		
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2014	Mar. 29 2015		
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A		
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A		
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	Apr. 19 2014	Apr. 19 2015		
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr. 01 2014	Mar. 31 2015		
18	Loop antenna	Laplace instrument	RF300	EMC0701	Apr. 01 2014	Mar. 31 2015		
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	May. 29 2014	May. 28 2015		
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	Apr. 19 2014	Apr. 19 2015		

Conducted Emission:									
Item Test Equipment Manufacturer Model No. Inventory No. Cal.Date (mm-dd-yy) Ca									
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	Oct. 10 2012	Oct. 09 2015			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	Apr. 10 2014	Apr. 09 2015			
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 10 2014	Apr. 10 2015			
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2014	Mar. 31 2015			



6 Test results and Measurement Data

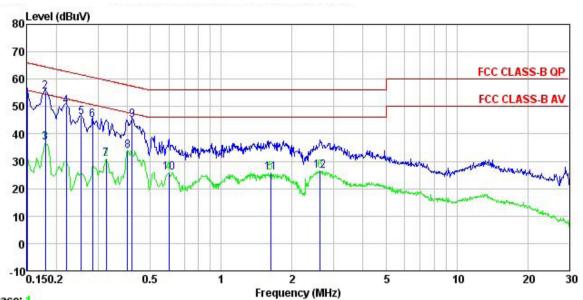
6.1 Conducted Emission

Test Requirement:	FCC Part15 B Section 15.107	FCC Part15 B Section 15.107						
Test Method:	ANSI C63.4:2003							
Test Frequency Range:	150kHz to 30MHz							
Class / Severity:	Class B	Class B						
Receiver setup:	RBW=9kHz, VBW=30kHz	RBW=9kHz, VBW=30kHz						
Limit:	Limit (dBµV)							
	Frequency range (MHz)	Quasi-peak	Average					
	0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46							
	0.5-30	60	50					
Test setup: Test procedure	Reference Plane LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m							
	 impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. 							
Test environment:	Temp.: 23 °C Humid	d.: 56% Pre	ess.: 1 01kPa					
Measurement Record:		•	Uncertainty: 3.28dB					
Test Instruments:	Refer to section 5.7 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							



Measurement data:

Line:



Trace: 1

: CCIS Shielding Room : FCC CLASS-B QP LISN LINE : 774RF : Smart Phone

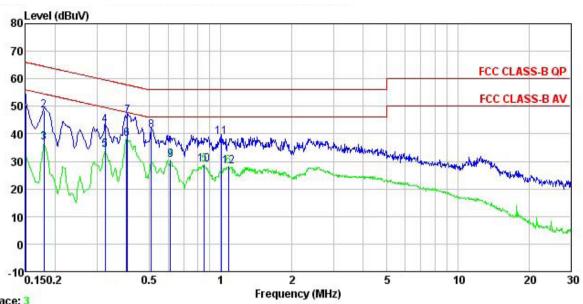
Site Condition

Job. no EUT Model : U1
Test Mode : PC mode
Power Rating : AC120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Carey

Remark	:							
		Read	LISN	Cable		Limit	Over	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu∜	dB	₫B	dBu₹	dBu∀	dB	
1	0.150	44.57	0.27	10.78	55.62	66.00	-10.38	QP
2	0.180	44.26	0.28	10.77	55.31	64.50	-9.19	QP
3	0.180	25.81	0.28	10.77	36.86	54.50	-17.64	Average
4	0.220	39.18	0.28	10.76	50.22	62.83	-12.61	QP
4 5 6 7	0.255	34.94	0.27	10.75	45.96	61.60	-15.64	QP
6	0.285	33.97	0.26	10.74	44.97	60.68	-15.71	QP
	0.325	19.87	0.27	10.73	30.87	49.57	-18.70	Average
8 9	0.400	22.98	0.28	10.72	33.98	47.86	-13.88	Average
9	0.419	34.19	0.28	10.73	45.20	57.46	-12.26	QP
10	0.601	14.82	0.25	10.77	25.84	46.00	-20.16	Average
11	1.619	14.71	0.26	10.93	25.90	46.00	-20.10	Average
12	2.636	15.33	0.27	10.93	26.53	46.00	-19.47	Average



Neutral:



Trace: 3 Site

: CCIS Shielding Room : FCC CLASS-B QP LISN NEUTRAL : 774RF

Condition Job. no Smart Phone EUT Model : U1 Test Mode : PC mode

Power Rating: AC120V/60Hz
Environment: Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Carey
Remark:

Kemark								
	-	Read	LISN	Cable	20000220	Limit	Over	************
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu∀	dB	₫B	dBu₹	₫₿u₹	dB	
1	0.151	39.48	0.25	10.78	50.51	65.96	-15.45	QP
2	0.180	37.59	0.25	10.77	48.61	64.50	-15.89	QP
3	0.180	25.66	0.25	10.77	36.68	54.50	-17.82	Average
4	0.325	32.10	0.26	10.73	43.09	59.57	-16.48	QP
1 2 3 4 5 6 7 8 9	0.325	23.12	0.26	10.73	34.11	49.57	-15.46	Average
6	0.400	27.34	0.25	10.72	38.31	47.86	-9.55	Average
7	0.404	35.41	0.25	10.72	46.38	57.77	-11.39	QP
8	0.510	30.27	0.28	10.76	41.31	56.00	-14.69	QP
9	0.614	19.48	0.22	10.77	30.47	46.00	-15.53	Average
10	0.853	17.77	0.20	10.83	28.80	46.00	-17.20	Average
11	1.010	27.61	0.22	10.87	38.70	56.00	-17.30	QP
12	1.077	16.95	0.23	10.88	28.06	46.00	-17.94	Average

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

Shenzhen, China 518102

Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366

Project No.: CCIS140900774RF

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6.2 Radiated Emission

0.2 Radiated Lillission								
Test Requirement:	FCC Part15 B Section 15.109							
Test Method:	ANSI C63.4:2003							
Test Frequency Range:	30MHz to 6000MHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:	Frequency	Detector	RBW	VBW	Remark			
	30MHz-1GHz	Quasi-peak			Quasi-peak Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
	7,0000 10112	Peak	1MHz 10Hz		Average Value			
Limit:	Freque		Limit (dBuV/	m @3m)	Remark			
	30MHz-8		40.0		Quasi-peak Value			
	88MHz-2		43.5		Quasi-peak Value			
	216MHz-9		46.0		Quasi-peak Value			
	960MHz-	·1GHz	54.0		Quasi-peak Value			
	Above 1	IGHz	54.0		Average Value			
			74.0)	Peak Value			
Test setup:	Above 1GHz Antenna Tower Antenna Tower							



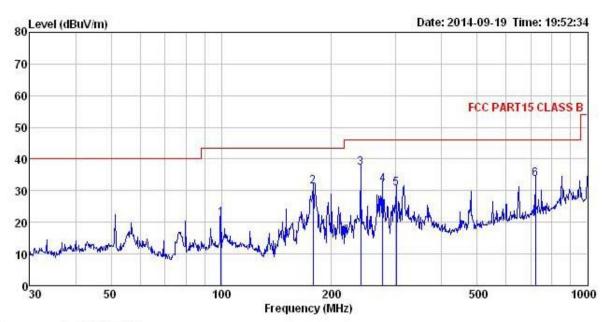
Test Procedure:	The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.							
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.							
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.							
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.							
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.							
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.							
Test environment:	Temp.: 25 °C Humid.: 55% Press.: 1 01kPa							
Measurement Record:	Uncertainty: 4.88dB							
Test Instruments:	Refer to section 5.7 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							



Measurement Data

Below 1GHz

Horizontal:



Site

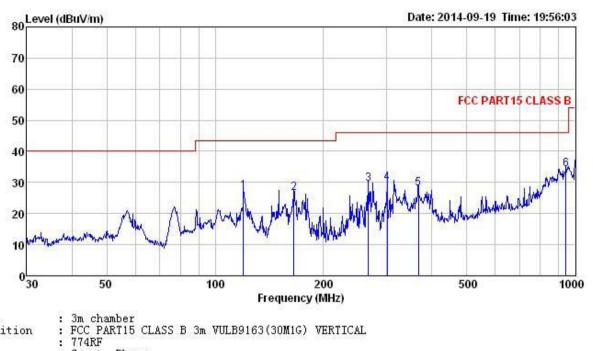
: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL : 774RF Condition

Pro EUT : Smart Phone : Ul
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey
REMARK :

EMAKK									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
400	MHz	dBu₹	dB/m	dB	<u>dB</u>	dBuV/m	dBuV/m		
1	99.878	36.63	13.16	0.96	29.53	21.22	43.50	-22.28	QP
2	178.133	49.25	9.55	1.36	28.99	31.17	43.50	-12.33	QP
2	239.987	52.11	12.09	1.58	28.59	37.19	46.00	-8.81	QP
4	276.124	46.23	12.55	1.70	28.49	31.99	46.00	-14.01	QP
5	300.367	44.40	13.06	1.77	28.45	30.78	46.00	-15.22	QP
6	721, 726	40.11	19, 10	2.97	28, 58	33, 60	46,00	-12.40	OP



Vertical:



Site

Condition

Pro : Smart Phone : U1 EUT Model

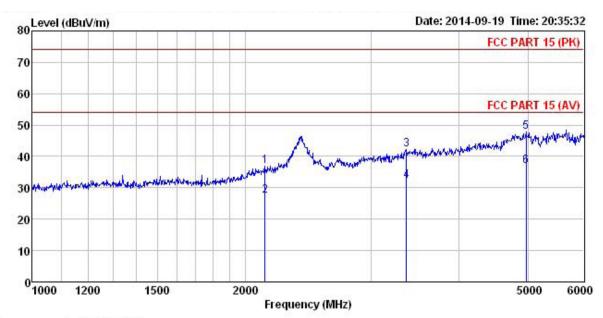
Test mode : PC mode Power Rating: AC 120V/60Hz
Environment: Temp:25.5°C Huni:55%
Test Engineer: Carey
REMARK:

	125 124 124 125 126 126 126 126 126 126 126 126 126 126			Cable Pream			Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
550	MHz	dBu₹	dB/m	₫B	₫B	dBu∜/m	dBuV/m	dB	
1	119.856	45.00	10.48	1.12	29.39	27.21	43.50	-16.29	QP
2	165.487	45.58	8.82	1.34	29.09	26.65	43.50	-16.85	QP
1 2 3	266.609	43.97	12.26	1.67	28.51	29.39	46.00	-16.61	QP
4 5 6	300.367	43.55	13.06	1.77	28.45	29.93	46.00	-16.07	QP
5	366.823	40.27	14.48	2.00	28.64	28.11	46.00	-17.89	QP
6	942.131	37.30	21.37	3.44	27.75	34.36	46.00	-11.64	QP



Above 1GHz

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

: 774RF Pro EUT

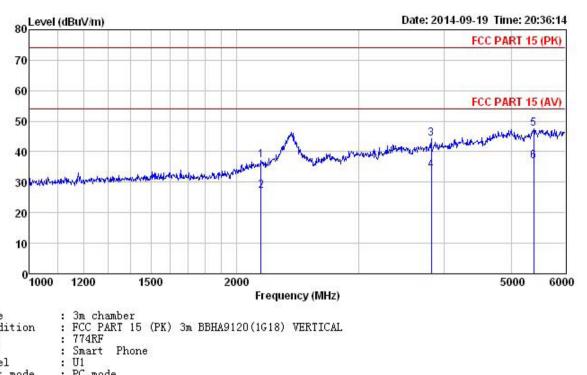
: Smart Phone

: U1
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey
REMARK :

MAKI	K :									
			Antenna				Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
5	MHz	dBu∀	dB/m	₫B	dB	dBu∜/m	dBu∜/m	<u>ab</u>		
1	2130.001	45.02	27.34	5.08	40.45	36.99	74.00	-37.01	Peak	
2	2130.001	35.58	27.34	5.08	40.45	27.55	54.00	-26.45	Average	
3	3369.664	46.79	28.35	6.35	39.15	42.34	74.00	-31.66	Peak	
4	3369.664	36.63	28.35	6.35	39.15	32.18	54.00	-21.82	Average	
5	4971.019	46.95	31.74	9.10	40.00	47.79	74.00	-26.21	Peak	
6	4971 019	35 93	31 74	9 10	40 00	36 77	54 00	-17 23	Average	



Vertical:



Site

Condition

Pro

EUT

Model Test mode : PC mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey REMARK :

	Freq			dAntenna Cable l Factor Loss			Limit Line	Over Limit	Remark	
=	MHz	dBu₹	dB/m	₫B	dB	dBuV/m	dBuV/m	<u>dB</u>		
	2168.510	44.53	70.00	5.19				-36.90		
	2168.510	34.52	T(0) (0) (0) (0) (0)	5.19					Average	
	3826.796	47.88		7.52				-29.60		
	3826.796	37.39	W 000000000000000000000000000000000000	7.52	40.63				Average	
2.500		46.81	31.84	9.15	17.7.7.7.7.7		74.00			
6	5388.429	36.04	31.84	9.15	40.19	36.84	54.00	-17.16	Average	