Report No: CCIS15030018504

FCC REPORT

Applicant: GNJ Manufacturing Inc.

Address of Applicant: 205 Ansin Blvd Hallandale Beach, FL 33009, USA

Equipment Under Test (EUT)

Product Name: Smart Phone-Value 4.5 Series

Model No.: CAPHG38-01

Trade mark: CellAllure

FCC ID: 2AAE9CAPHG38

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 25 Mar., 2015

Date of Test: 25 Mar., to 07 Apr., 2015

Date of report issued: 08 Apr., 2015

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	08 Apr., 2015	Original

Prepared by: Date: 08 Apr., 2015

Report Clerk

Reviewed by: Date: 08 Apr., 2015

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.



Report No: CCIS15030018504

5 General Information

5.1 Client Information

Applicant:	GNJ Manufacturing Inc.
Address of Applicant:	205 Ansin Blvd Hallandale Beach, FL 33009, USA
Manufacturer/ Factory:	GNJ Manufacturing Inc. china
Address of Manufacturer / Factory:	4/F, Blk A, No.48 Industrial Park, ZhongKai HiTech Zone, HuiZhou City, GuangDong Province, China

5.2 General Description of E.U.T.

Product Name:	Smart Phone-Value 4.5 Series			
Model No.: CAPHG38-01				
Power supply:	Rechargeable Li-ion Battery DC3.7V-1500mAh			
	Model: ASC-058			
AC adapter :	Input:110-240V AC,50/60Hz 0.2A			
	Output:5V DC MAX 0.5A			

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+recording mode	Keep the EUT in Charging+recording mode
Charging+Play mode	Keep the EUT in Charging+Play mode
FM mode	Keep the EUT in FM receiver mode

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.



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5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	PC OPTIPLEX745		DoC
DELL	DELL MONITOR E178FPC		N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	HP Printer		05257893	DoC
MERCURY	Wireless router	MW150R	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: +86-755-23118282 Fax: +86-755-23116366





5.7 Test Instruments list

Radiated Emission:								
Item	Test Equipment	Test Equipment Manufacturer Model No.		Inventory 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	08-23-2014	08-22-2017		
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	04-19-2014	04-19-2015		
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	04-19-2014	04-19-2015		
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
5	Coaxial Cable	CCIS	N/A	CCIS0016	03-01-2015	02-28-2016		
6	Coaxial Cable	CCIS	N/A	CCIS0017	03-01-2015	02-28-2016		
7	Coaxial cable	CCIS	N/A	CCIS0018	03-01-2015	02-28-2016		
8	Coaxial Cable	CCIS	N/A	CCIS0019	03-01-2015	02-28-2016		
9	Coaxial Cable	CCIS	N/A	CCIS0087	03-01-2015	02-28-2016		
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	03-01-2015	02-28-2016		
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	06-09-2014	06-08-2015		
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	03-01-2015	02-28-2016		
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	03-01-2015	02-28-2016		
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	04-19-2014	04-19-2015		
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	03-01-2015	02-28-2016		
18	Loop antenna	Laplace instrument	RF300	EMC0701	03-01-2015	02-28-2016		
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	05-29-2014	05-28-2015		
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-19-2014	04-19-2015		

Cond	Conducted Emission:									
Item	Test Equipment	Manufacturer	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	06-09-2014	06-08-2015				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	04-19-2014	04-19-2015				
3	LISN	CHASE	MN2050D	CCIS0074	03-01-2015	02-28-2016				
4	Coaxial Cable	CCIS	N/A	CCIS0086	03-01-2015	02-28-2016				



6 Test results and Measurement Data

6.1 Conducted Emission

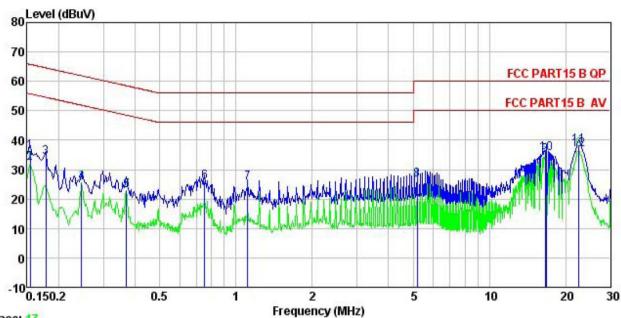
Test Requirement:	FCC Part 15 B Section 15.10)7					
Test Method:	ANSI C63.4:2003						
Test Frequency Range:	150kHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9kHz, VBW=30kHz						
Limit:	Frequency range (MHz)	Lin	nit (dBµV)				
	, , ,	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	0.5-30 * Decreases with the logarith	m of the frequency	50				
Test setup:	Reference Plan						
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — Ad	C power				
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedances are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.). bedance for the mea e also connected to ohm/50uH coupling s to the block diagra e checked for maxim and the maximum em d all of the interface	The provide a suring equipment. the main power through impedance with 50ohm m of the test setup and num conducted ission, the relative cables must be changed				
Test environment:	Temp.: 23 °C Hun	nid.: 56%	Press.: 1 01kPa				
Measurement Record:		<u> </u>	Uncertainty: 3.28dB				
Test Instruments:	Refer to section 5.7 for detail	ls					
Test mode:	Refer to section 5.3 for detail	ls					
1 001 111000.							





Measurement data:

Line:



Trace: 17

: CCIS Shielding Room : FCC PART15 B QP LISN LINE Site Condition

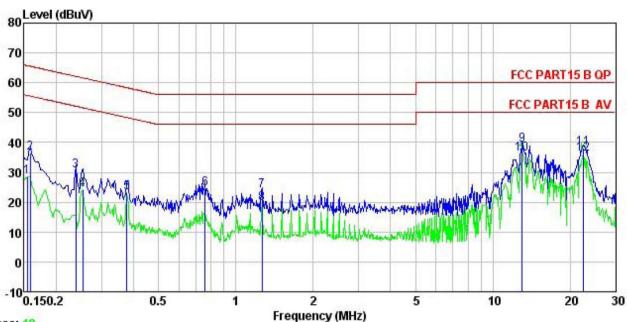
EUT : Mobile Phone : CAPHG38-01 Model Test Mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: GAREN

(emark						-		
		Read	LISN	Cable		Limit		
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu₹	₫B	dB	dBu₹	dBu∜	<u>ab</u>	
1	0.154	25.11	0.27	10.78	36.16	65.78	-29.62	QP
2	0.154	21.21	0.27	10.78	32.26	55.78	-23.52	Average
3	0.178	23.02	0.28	10.77	34.07	64.59	-30.52	QP
4	0.246	14.42	0.27	10.75	25.44	51.91	-26.47	Average
5	0.369	11.99	0.27	10.73	22.99	48.52	-25.53	Average
6	0.751	15.01	0.23	10.79	26.03	56.00	-29.97	QP
7	1.111	14.46	0.25	10.88	25.59	56.00	-30.41	QP
2 3 4 5 6 7 8 9	5.194	15.24	0.30	10.84	26.38	50.00	-23.62	Average
9	16.573	23.59	0.33	10.91	34.83	50.00	-15.17	Average
10	16.750	24.39	0.33	10.91	35.63		-24.37	
11	22.416	26.77	0.43	10.90	38.10	60.00	-21.90	QP
12	22,535	25.63	0.44	10.89	36.96	50.00	-13.04	Average





Neutral:



Trace: 19

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

EUT : Mobile Phone Model : CAPHG38-01 Test Mode : PC mode Power Rating : AC 120V/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: GAREN

emark	:							
		Read	LISN	Cable		Limit	Over	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu∇	<u>dB</u>	₫B	dBu₹	−−dBuV	<u>d</u> B	
1	0.154	17.52	0.25	10.78	28.55	55.78	-27.23	Average
2	0.158	25.44	0.25	10.78	36.47	65.56	-29.09	QP
2	0.238	19.38	0.25	10.75	30.38	62.17	-31.79	QP
4 5 6	0.253	13.17	0.26	10.75	24.18	51.64	-27.46	Average
5	0.377	12.17	0.25	10.72	23.14	48.34	-25.20	Average
6	0.759	13.71	0.19	10.80	24.70	56.00	-31.30	QP
7	1.262	12.83	0.24	10.90	23.97	56.00	-32.03	QP
8	1.262	8.46	0.24	10.90	19.60	46.00	-26.40	Average
9	12.988	27.87	0.25	10.91	39.03	60.00	-20.97	QP
10	12.988	25.10	0.25	10.91	36.26	50.00	-13.74	Average
11	22.416	26.88	0.37	10.90	38.15		-21.85	
12	22.535	24.84	0.38	10.89	36.11	50.00	-13.89	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 Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366





6.2 Radiated Emission

Test Requirement:	FCC Part 15 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	Detec	tor	VBV	N	Remark			
'	30MHz-1GHz	Quasi-p	oeak	120kHz	120kHz 300kl		Quasi-peak Value		
	Above 1GHz	Pea		1MHz 3MH			Peak Value		
		Pea		1MHz 10		lz	Average Value		
Limit:	Frequency		Limi	t (dBuV/m @	23m)		Remark		
	30MHz-88M			40.0			Quasi-peak Value		
	88MHz-216N			43.5			Quasi-peak Value		
	216MHz-960I			46.0			Quasi-peak Value		
	960MHz-1G	Hz		54.0		(Quasi-peak Value		
	Above 1GF	-lz		54.0			Average Value		
				74.0		Peak Value			
Test setup:	Below 1GHz Antenna Tower Search Antenna RF Test Receiver Ground Plane Above 1GHz Antenna Tower Antenna Tower Antenna Tower Antenna Tower 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. 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.							
	5. 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							

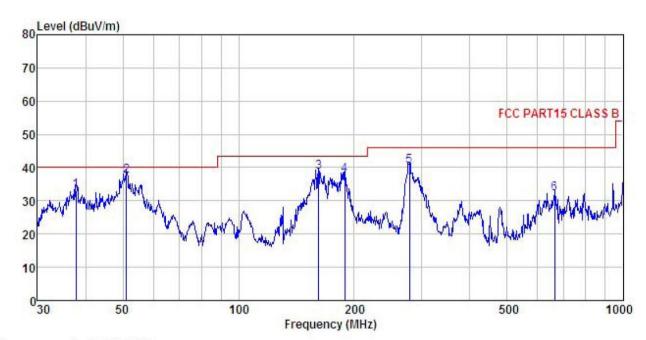




Measurement Data

Below 1GHz

Horizontal:



Site

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

EUT : Smart Phone-Value 4.5 Series

: CAPHG38-01 Model Test mode : PC Mode Power Rating : AC120/60Hz

Environment : Temp:25.5°C Huni:55%

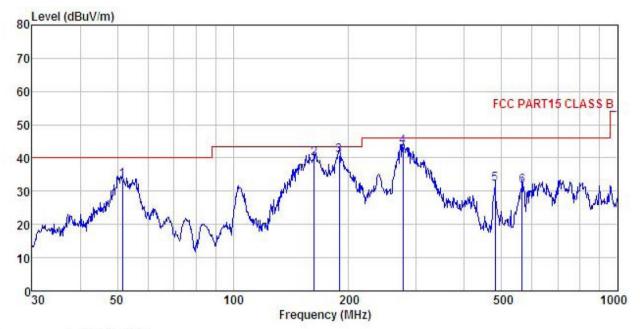
Test Engineer: YT REMARK :

CHENT									
	Freq		Antenna Factor						Remark
-	MHz	dBu∇	<u>dB</u> /m	<u>d</u> B	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	dB	
1	37.812	49.38	13.06	0.50	29.92	33.02	40.00	-6.98	QP
1 2 3	51.121	53.35	13.21	0.62	29.82	37.36	40.00	-2.64	QP
3	161.474	57.85	8.72	1.34	29.12	38.79	43.50	-4.71	QP
4	189.074	54.91	10.48	1.37	28.91	37.85	43.50	-5.65	QP
5 6	278.067	54.61	12.63	1.71	28.49	40.46	46.00	-5.54	QP
6	663.473	39.32	18.68	2.82	28.75	32.07	46.00	-13.93	QP





Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL Condition

EUT : Smart Phone-Value 4.5 Series

Model : CAPHG38-01
Test mode : PC Mode
Power Rating : AC120/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: YT REMARK :

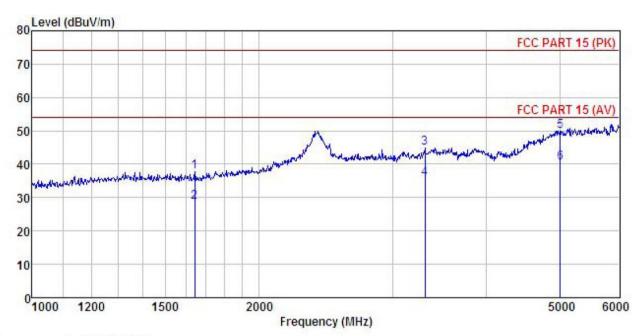
шинас		Read	Antenna	Cable	Preamn		Limit	Over		
	Freq		Factor							
	MHz	dBu₹	<u>dB</u> /m	<u>d</u> B	<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>		
1	51.481	49.45	13.19	0.62	29.81	33.45	40.00	-6.55	QP	
2	162.611	58.77	8.74	1.34	29.11	39.74	43.50	-3.76	QP	
1 2 3	189.074	57.81	10.48	1.37	28.91	40.75	43.50	-2.75	QP	
4	277.094	57.73	12.59	1.70	28.49	43.53	46.00	-2.47	QP	
4 5	480.528	42.67	16.07	2.35	28.92	32.17	46.00	-13.83	QP	
6	564.639	40.32	17.83	2.56	29.05	31.66	46.00	-14.34	QP	
ь 6									- Contract C	





Above 1GHz

Horizontal:



Site

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

EUT : Smart Phone-Value 4.5 Series

: CAPHG38-01 Model Test mode : PC mode Power Rating : AC 120V/60Hz Environment : Temp:25°C Huni:55% Atmos:101Kpa

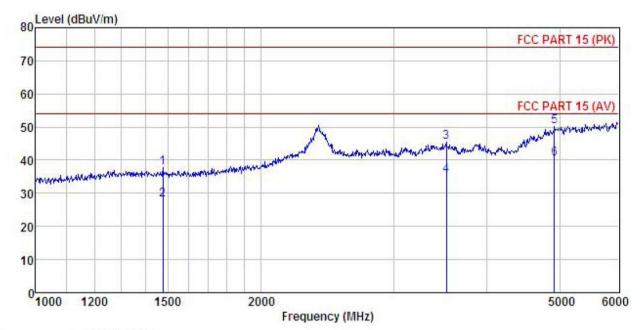
Test Engineer: Remark :

emarr									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
. 2	MHz	dBu₹	dB/m		<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	1642.661	49.78	24.86	4.23	40.97	37.90	74.00	-36.10	Peak
2	1642.661	40.48	24.86	4.23	40.97	28.60	54.00	-25.40	Average
3	3315.761	50.01	28.33	6.22	39.62	44.94		-29.06	
4	3315.761	40.89	28.33	6.22	39.62	35.82	54.00	-18.18	Average
5	5006.774	49.03	31.85	9.12	39.99	50.01	74.00	-23.99	Peak
6	5006.774	39.56	31.85	9.12	39.99	40.54	54.00	-13.46	Average





Vertical:



Site

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

: Smart Phone-Value 4.5 Series : CAPHG38-01 EUT

Model Test mode : PC mode Power Rating : AC 120V/60Hz Environment : Temp:25°C Huni:55% Atmos:101Kpa

Test Engineer:

Remark

	Freq		Antenna Factor				Limit Line	Over Limit	Remark
_	MHz	dBu∜				$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1	1477.873	49.61	25.35	3.85	40.95	37.86	74.00	-36.14	Peak
2	1477.873	39.72	25.35	3.85	40.95	27.97	54.00	-26.03	Average
	3530.356	49.97	29.01	6.21	39.83		74.00		
4	3530.356	40.17	29.01	6.21	39.83	35.56	54.00	-18.44	Average
5	4917.863	49.53	31.61	9.02	40.10		74.00		
6	4917.863	39.79	31.61	9.02	40.10	40.32	54.00	-13.68	Average