

Report No: CCISE171001403

FCC REPORT

Applicant:	SWAGTEK
Address of Applicant:	10205 NW 19th Street, STE 101, Miami, FL 33172 USA
Equipment Under Test (E	EUT)
Product Name:	2.4 inch Flip 3G Phone
Model No.:	LOGIC F3G, iSWAG PEARL, UNONU F3G
Trade mark:	LOGIC
FCC ID:	O55243717
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	11 Oct., 2017
Date of Test:	11 Oct., to 01 Nov., 2017
Date of report issued:	02 Nov., 2017
Test Result:	Pass *

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

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.

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2 Version

Version No.	Date	Description
00	02 Nov., 2017	Original

Tested by:

Zora Lee Date:

02 Nov., 2017

Test Engineer

Reviewed by:

Ryan. Lee

Date:

02 Nov., 2017

Project Engineer

<u>CCIS</u>

Report No: CCISE171001403

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4 Test Summary

Test Item	Section in CFR 47	Result	
Conducted Emission	Part 15.107	Pass	
Radiated Emission	Part 15.109	Pass	

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



5 General Information

5.1 Client Information

Applicant:	SWAGTEK
Address of Applicant:	10205 NW 19th Street, STE 101, Miami, FL 33172 USA
Manufacturer/ Factory:	SWAGTEK
Address of Manufacturer/ Factory :	10205 NW 19th Street, STE 101, Miami, FL 33172 USA

5.2 General Description of E.U.T.

Product Name:	2.4 inch Flip 3G Phone		
Model No.:	LOGIC F3G, iSWAG PEARL, UNONU F3G		
Power supply:	Rechargeable Li-ion Battery DC3.7V-800mAh		
AC adapter with two plugs :	Model: F3G Input: AC100-240V 50/60Hz 0.1A Output: DC 5.0V, 500mA		
Remark:	Model No.: LOGIC F3G, iSWAG PEARL, UNONU F3G Advanced were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name for different customer.		

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+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode
The complexies placed 0.0m ch	and the ground plane of the chember Macaurements in both berimental and

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 Measurement Uncertainty

Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)



5.5 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	MOUSE	MOC5UO	N/A	DoC
HP	Printer	CB495A	05257893	DoC
MERCURY	Wireless router	MW150R	12922104015	FCC ID
NAKAMICHI	Bluetooth earphone	Т8	N/A	FCC ID

5.6 Laboratory Facility

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

• FCC - Registration No.: 727551

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551 October 12, 2017.

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.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.7 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 Website: http://www.ccis-cb.com Tel: +86-755-23118282 Fax:+86-755-23116366 Email: info@ccis-cb.com



5.8 Test Instruments list

Radia	Radiated Emission:					
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	07-22-2017	07-21-2020
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	02-25-2017	02-24-2018
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	02-25-2017	02-24-2018
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	02-25-2017	02-24-2018
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	02-25-2017	02-24-2018
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	02-25-2017	02-24-2018
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	02-25-2017	02-24-2018
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	N/A	N/A	CCIS0018	02-25-2017	02-24-2018
10	Coaxial Cable	N/A	N/A	CCIS0020	02-25-2017	02-24-2018

Cond	Conducted Emission:						
ltem	Test Equipment	Manufacturer	Model No.	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	07-22-2017	07-21-2020	
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	02-25-2017	02-24-2018	
3	LISN	CHASE	MN2050D	CCIS0074	02-25-2017	02-24-2018	
4	Coaxial Cable	CCIS	N/A	CCIS0086	02-25-2017	02-24-2018	
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	

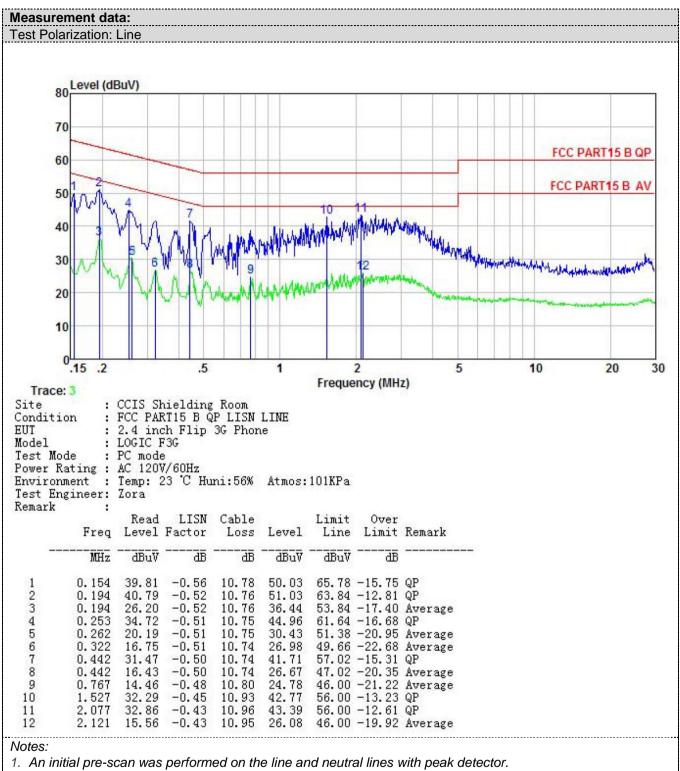


6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10)7		
Test Method:	ANSI C63.4:2014			
Test Frequency Range:	150kHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:		Limit	(dBµV)	
Linne.	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	
	* Decreases with the logarith	m of the frequency.		
Test setup:	Reference Plar	ne		
Testanesskur	LISN 40cm 80ci AUX Equipment E.U.T Fequipment E.U.T Test table/Insulation plane Remarkc E.U.T. Equipment Under Test LISN: Line impedence Stabilization Network Test table height=0.8m 8m	Filter AC p		
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp The peripheral devices 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 and according to ANSI C63.4: 	on network(L.I.S.N.). T bedance for the measu e also connected to th ohm/50uH coupling im s to the block diagram e checked for maximu nd the maximum emiss d all of the interface ca	the provide a uring equipment. e main power through pedance with 500hm of the test setup and m conducted sion, the relative ables must be changed	
		Temp.: 23 °C Humid.: 56% Press.: 101kPa		
Test environment:	Temp.: 23 °C Hum	nid.: 56% P	ress.: 101kPa	
Test environment: Test Instruments:	Temp.:23 °CHunRefer to section 5.7 for detail		ress.: 101kPa	
		ls	ress.: 101kPa	

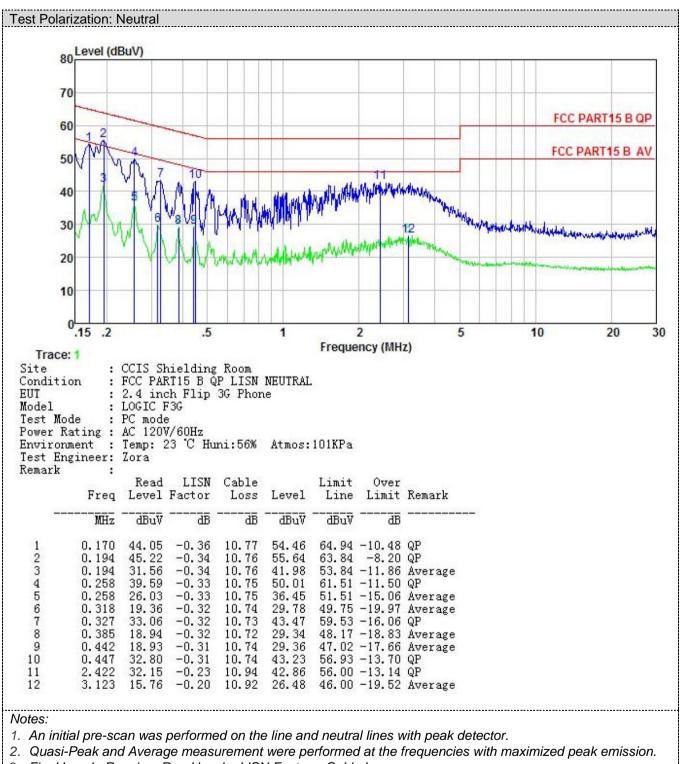




2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

3. Final Level =Receiver Read level + LISN Factor + Cable Loss.





3. Final Level =Receiver Read level + LISN Factor + Cable Loss.





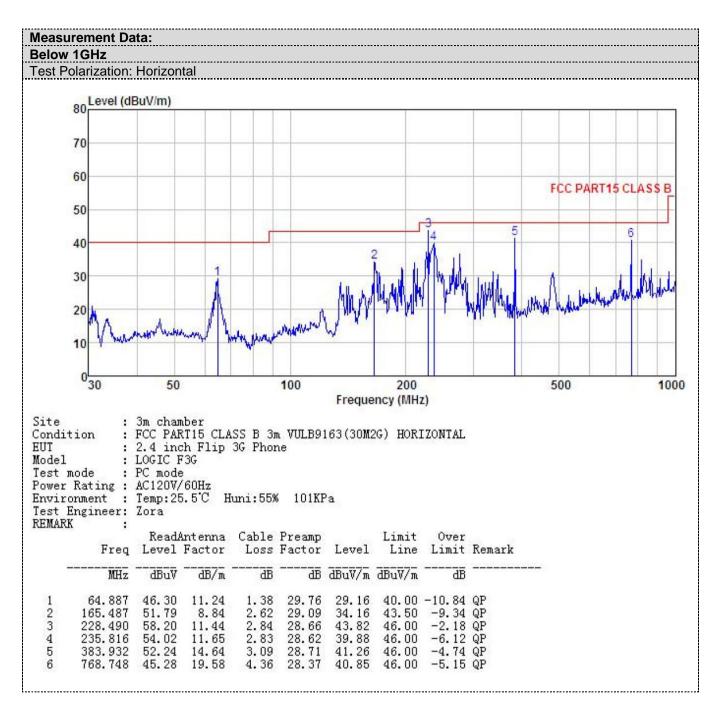
6.2 Radiated Emission

.4:2014 6000MHz hent Distar GHz Q GHz Q GHz 2-88MHz z-216MHz z-960MHz Hz-1GHz re 1GHz	Hz stance: 3m (Se Detector Quasi-peak Peak RMS Limit Iz Hz IHz Iz	mi-Anechoi RBW 120kHz 1MHz 1MHz (dBuV/m @ 40.0 43.5 46.0 54.0 54.0 54.0 74.0	VBW 300kHz 3MHz 3MHz 23m) ((((((((((((() Remark Quasi-peak Value Peak Value Average Value Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Value			
6000MHz nent Distar GHz Q GHz Q GHz GHz -216MHz z-216MHz z-960MHz Hz-1GHz re 1GHz	Hz stance: 3m (Se Detector Quasi-peak Peak RMS Limit Iz Hz IHz Iz	RBW 120kHz 1MHz (dBuV/m @ 40.0 43.5 46.0 54.0 54.0	VBW 300kHz 3MHz 3MHz 23m) (((((((((((((Remark Quasi-peak Value Peak Value Average Value Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Average Value			
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icy I GHz Q GHz cuency z-88MHz z-216MHz z-960MHz Hz-1GHz re 1GHz	Detector Quasi-peak Peak RMS Limit Iz Hz IHz Iz	RBW 120kHz 1MHz (dBuV/m @ 40.0 43.5 46.0 54.0 54.0	VBW 300kHz 3MHz 3MHz 23m) (((((((((((((Remark Quasi-peak Value Peak Value Average Value Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Average Value			
GHz Q GHz quency z-88MHz z-216MHz z-960MHz Hz-1GHz re 1GHz	Peak RMS Limit Iz Hz IHz Iz	1MHz 1MHz (dBuV/m @ 40.0 43.5 46.0 54.0 54.0	3MHz 3MHz 23m) ((Peak Value Average Value Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Average Value			
quency z-88MHz z-216MHz z-960MHz Hz-1GHz re 1GHz	RMS Limit Iz Hz IHz Iz	1MHz (dBuV/m @ 40.0 43.5 46.0 54.0 54.0	3MHz 23m) ((Average Value Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Average Value			
quency z-88MHz z-216MHz z-960MHz Hz-1GHz re 1GHz	Limit Iz Hz IHz Iz	(dBuV/m @ 40.0 43.5 46.0 54.0 54.0	23m) ((Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Average Value			
z-88MHz <u>z-216MHz</u> z-960MHz Hz-1GHz /e 1GHz	Iz Hz Hz Hz IHz Iz	40.0 43.5 46.0 54.0 54.0		Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Average Value			
z-216MHz z-960MHz Hz-1GHz /e 1GHz	Hz IHz Iz	43.5 46.0 54.0 54.0	(Quasi-peak Value Quasi-peak Value Quasi-peak Value Average Value			
z-960MHz Hz-1GHz ⁄e 1GHz	IHz Iz	46.0 54.0 54.0	(Quasi-peak Value Quasi-peak Value Average Value			
Hz-1GHz ve 1GHz	lz	54.0 54.0		Quasi-peak Value Average Value			
re 1GHz		54.0		Average Value			
	2	74.0					
Hz							
Below 1GHz Ground Plane Antenna Tower FT Fest Receiver Ground Plane Above 1GHz Test Receiver Horn Antenna Tower Horn							
		(Turntable)	(Turntable)	AE EUT (Turntable) Ground Reference Plane			



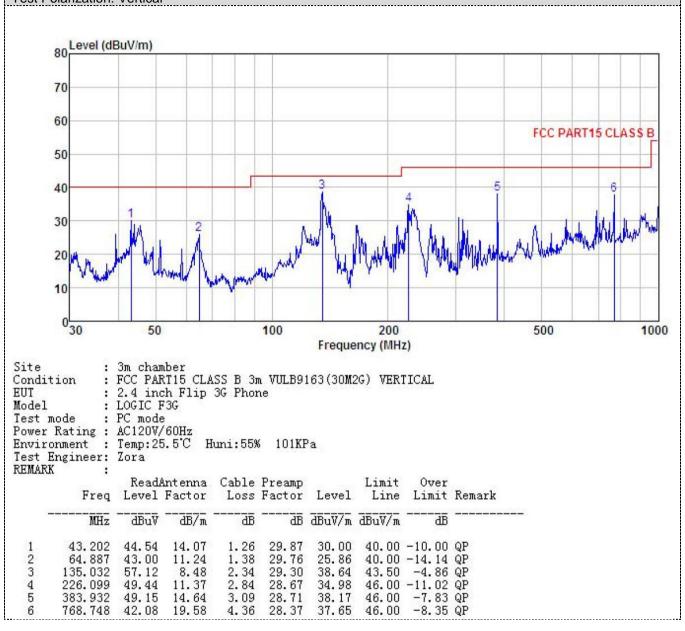
Test Procedure:	 t Procedure: 1. The EUT was placed on the top of a rotating table 0.8 meters above ground at a 3 meter semi-anechoic camber. The table was rotated degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenr tower. 3. The antenna height is varied from one meter to four meters above ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make measurement. 4. For each suspected emission, the EUT was arranged to its worst carand then the antenna was tuned to heights from 1 meter to 4 meter 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 that limit specified, then testing could be stopped and the peak values of EUT would be reported. Otherwise the emissions that did not have 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			
Test Instruments:	Refer to section 5.7 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Passed								
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded								



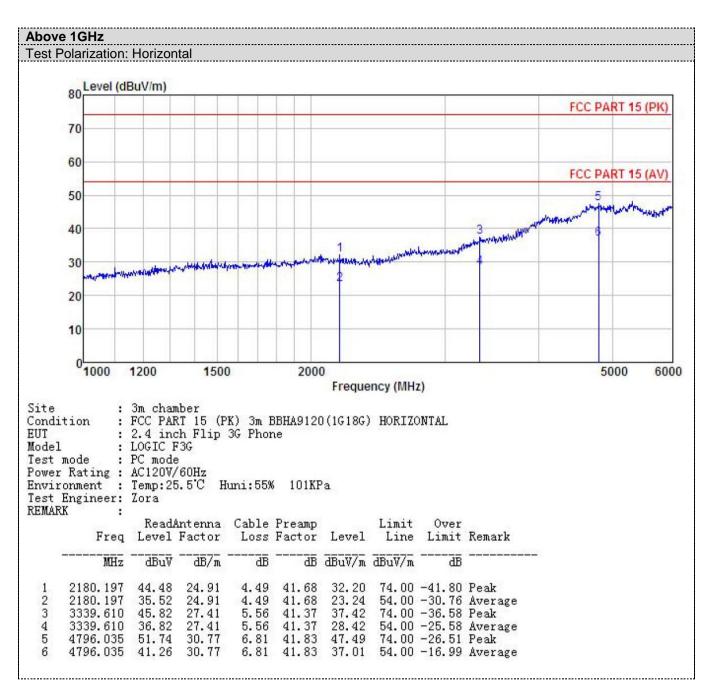




Test Polarization: Vertical









Test Polarization: Vertical 80 Level (dBuV/m) FCC PART 15 (PK) 70 60 FCC PART 15 (AV) 50 E 3 40 mald - secondar 14 1 30 ALAN. 20 10 01000 1200 1500 2000 5000 6000 Frequency (MHz) : 3m chamber Site : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL Condition : 2.4 inch Flip 3G Phone EUT : LOGIC F3G Model : PC mode Test mode Power Rating : AC120V/60Hz Environment : Temp: 25.5°C Huni: 55% 101KPa Test Engineer: Zora REMARK : ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Remark dB dBuV/m dBuV/m dBuV dB/m dB dB MHz 43.28 35.21 27.00 27.00 34.03 25.96 74.00 -39.97 Peak 54.00 -28.04 Average 2945.949 5.30 41.55 1 2 2945.949 5.30 41.55 3 51.22 4059.890 28.52 6.20 41.81 44.13 74.00 -29.87 Peak 54.00 -20.51 Average 74.00 -26.24 Peak 4 28.52 4059.890 40.58 6.20 41.81 33.49 5 52.23 47.76 4761.785 30.59 6.82 41.88 54.00 -16.57 Average 6 4761.785 41.90 30.59 6.82 41.88 37.43