Report No: CCIS15070056304

FCC REPORT

Applicant: Wines, Oil and Others S.L.U-WOO

Address of Applicant: Camino de Vinateros, 10. Bajo (Oficinas) 28030, Spain.

Equipment Under Test (EUT)

Product Name: 3G MOBILE PHONE

Model No.: SP3510

Trade mark: WOO SUPERNOVA

FCC ID: 2AEGXSP3510

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 16 Jul., 2015

Date of Test: 16 Jul., to 12 Aug., 2015

Date of report issued: 13 Aug., 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	13 Aug., 2015	Original

Prepared by:	may liu	Date:	13 Aug., 2015	
	Report Clerk			
Reviewed by:	Carrey Chen	Date:	13 Aug., 2015	

Project Engineer

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





3 Contents

			Page
1	С	OVER PAGE	1
2	٧	ERSION	2
3	С	ONTENTS	3
4	Т	EST SUMMARY	4
5	G	SENERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF E.U.T.	5
	5.3	TEST MODE	
	5.4	DESCRIPTION OF SUPPORT UNITS	6
	5.5	LABORATORY FACILITY	6
	5.6	LABORATORY LOCATION	
	5.7	TEST INSTRUMENTS LIST	
6	Т	EST RESULTS AND MEASUREMENT DATA	8
	6.1	CONDUCTED EMISSION	8
	6.2	RADIATED EMISSION	
7	Т	EST SETUP PHOTO	17
8	F	UT CONSTRUCTIONAL DETAILS	18





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:	Wines, Oil and Others S.L.U-WOO
Address of Applicant:	Camino de Vinateros, 10. Bajo (Oficinas) 28030, Spain.
Manufacturer:	Runsheng International Limited
Address of Manufacturer:	6F, North, Tower A, TCL Building, High-tech Industrial Park, Hi-tech Industrial, Nanshan District, Shenzhen, China
Factory:	SHENZHEN CITY LONGDI ELECTRONICS CO., LTD
Address of Factory:	Tianshida Industrial Park No.1 B, 4th floor, No.79, Longwo Road Community, Kengzi street, Pingshan New District, Shenzhen, China

Report No: CCIS15070056304

5.2 General Description of E.U.T.

Product Name:	3G MOBILE PHONE
Model No.:	SP3510
Power supply:	Rechargeable Li-ion Battery DC3.7V-1300mAh
	Model: A31-500550
AC adapter :	Input:100-240V AC,50/60Hz 0.15A
	Output:5.0 V DC MAX 500mA

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.



5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	TPLEX745 N/A	
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

Report No: CCIS15070056304

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		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	03-28-2015	03-28-2016		
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016		
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
5	Amplifier HP (10kHz-1.3GHz)		8447D	CCIS0003	04-01-2015	03-31-2016		
6	Amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016		
7	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016		
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016		
9	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A		
10	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A		
11	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	03-28-2015	03-28-2016		
12	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	03-28-2015	03-28-2016		
13	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016		
14	Universal radio communication tester		CMU200	CCIS0069	03-28-2015	03-28-2016		
15	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-08-2015	04-08-2016		

Cond	Conducted Emission:									
Item	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	11-10-2012	11-09-2015				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016				
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016				
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016				



6 Test results and Measurement Data

6.1 Conducted Emission

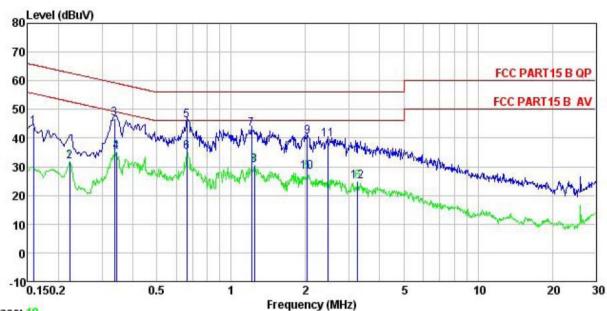
0.1 0	onducted Emission	· •					
Т	Test Requirement:	FCC Part 15 B Section 15.10)7				
7	Test Method:	ANSI C63.4:2009					
Т	Test Frequency Range:	150kHz to 30MHz					
(Class / Severity:	Class B					
F	Receiver setup:	RBW=9kHz, VBW=30kHz					
	_imit:		Limit	(dBµV)			
		Frequency range (MHz)	Quasi-peak	Average			
		0.15-0.5	66 to 56*	56 to 46*			
		0.5-5	56	46			
		0.5-30	60	50			
	Test setup:	* Decreases with the logarith	m of the frequency.				
	Test procedure	AUX Filter AC power Equipment E.U.T EMI Receiver Remark E.U.T: Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m					
	rest procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedance. 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.). To be dance for the measure also connected to the phm/50uH coupling imports to the block diagram are checked for maximum and the maximum emissed all of the interface care	the provide a uring equipment. e main power through apedance with 500hm of the test setup and am conducted sion, the relative ables must be changed			
7	Test environment:	Temp.: 23 °C Hum	nid.: 56% P	ress.: 1 01kPa			
ı	Measurement Record:	<u> </u>		Uncertainty: 3.28dB			
7	Test Instruments:	Refer to section 5.7 for detail	ls	- -			
٦	Test mode:	Refer to section 5.3 for detail	ls				
7	Test results:	Pass					





Measurement data:

Line:



Trace: 19

: CCIS Shielding Room : FCC PART15 B QP LISN LINE : 3G MOBILE PHONE Site Condition

EUT

Test Mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: YT
Remark

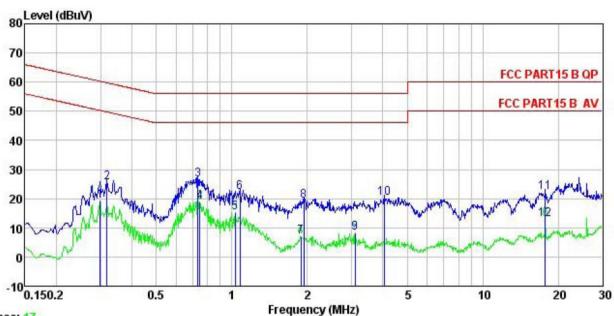
Remark

	Freq	Read Level	LISN Factor	Cable Loss		Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	dB	dBu∜	dBu∜	<u>dB</u>	
1	0.158	32.63	0.27	10.78	43.68	65.56	-21.88	QP
2	0.222	20.84	0.27	10.75	31.86	52.74	-20.88	Average
3	0.337	35.72	0.27	10.73	46.72	59.27	-12.55	QP
2 3 4 5 6 7	0.343	24.07	0.27	10.73	35.07	49.13	-14.06	Average
5	0.661	35.16	0.23	10.77	46.16	56.00	-9.84	QP
6	0.661	24.11	0.23	10.77	35.11	46.00	-10.89	Average
7	1.210	32.13	0.25	10.89	43.27	56.00	-12.73	QP
8	1.242	19.45	0.25	10.90	30.60	46.00	-15.40	Average
9	2.033	29.13	0.26	10.96	40.35	56.00	-15.65	QP
10	2.033	16.97	0.26	10.96	28.19	46.00	-17.81	Average
11	2.461	28.12	0.27	10.94	39.33	56.00	-16.67	QP
12	3.258	13.57	0.27	10.91	24.75	46.00	-21.25	Average





Neutral:



Trace: 17

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL : 3G MOBILE PHONE Condition

EUT

: SP3510 Model Test Mode : PC mode Power Rating : AC 120V/60Hz

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

Test Engineer: YT

Remark

Site

CMAIN	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>dB</u>	dB	dBu∜	dBu∜	<u>dB</u>	
1	0.299	8.35	0.26	10.74	19.35	50.28	-30.93	Average
2	0.318	14.57	0.26	10.74	25.57	59.75	-34.18	QP
3	0.731	15.42	0.18	10.78	26.38	56.00	-29.62	QP
4	0.747	8.01	0.19	10.79	18.99	46.00	-27.01	Average
2 3 4 5 6	1.032	4.05	0.22	10.87	15.14	46.00	-30.86	Average
6	1.077	11.13	0.23	10.88	22.24	56.00	-33.76	QP
7	1.888	-4.22	0.28	10.95	7.01	46.00	-38.99	Average
8	1.939	7.99	0.29	10.96	19.24	56.00	-36.76	QP
9	3.107	-2.88	0.29	10.92	8.33	46.00	-37.67	Average
10	4.070	9.19	0.29	10.89	20.37	56.00	-35.63	QP
11	17.755	11.15	0.26	10.90	22.31	60.00	-37.69	QP
12	17.755	1.69	0.26	10.90	12.85	50.00	-37.15	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.





6.2 Radiated Emission

0.2 Radiated Elliission	_									
Test Requirement:	FCC Part 15 E	FCC Part 15 B Section 15.109								
Test Method:	ANSI C63.4:20	009								
Test Frequency Range:	30MHz to 600	0MHz								
Test site:	Measurement	Distance:	3m (Se	mi-Anechoi	c Cham	nber)				
Receiver setup:	Frequency	Detec	tor	RBW	VBV	٧	Remark			
	30MHz- 1GHz	Quasi-peak		120kHz	300kl		Quasi-peak Value			
	Above 1GHz	Pea Average			3MHz 10Hz		Peak Value Average Value			
Limit:	Frequer			(dBuV/m @			Remark			
	30MHz-88			40.0	,		Quasi-peak Value			
	88MHz-21			43.5			Quasi-peak Value			
	216MHz-96			46.0			Quasi-peak Value			
	960MHz-1			54.0			Quasi-peak Value			
	Above 10	2H2		54.0			Average Value			
	Above 10	3 □Z		74.0			Peak Value			
Test setup:	Below 1GHz									
	Search Antenna RF Test Receiver Tum 0.8m Im A A A A A A A A A A A A A A A A A A									
	Above 1GHz									
	Ground Reference Plane Test Receiver						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.						
	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						

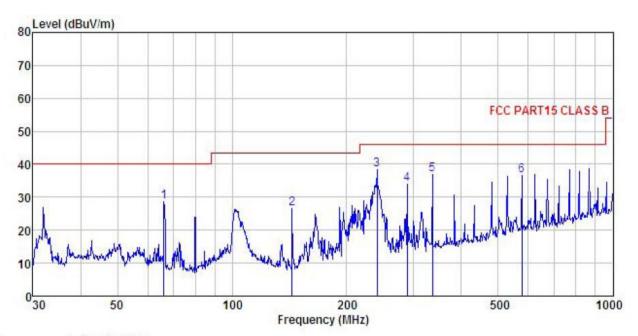




Measurement Data

Below 1GHz

Horizontal:



Site

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

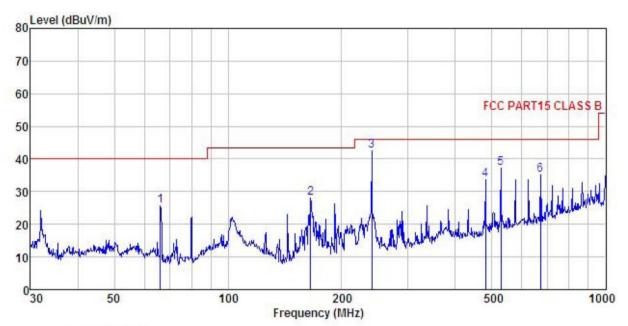
STATES OF A ST

	Freq		Antenna Factor						Remark
_	MHz	—dBu₹			<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>	
1	66.266	47.33	10.16	0.76	29.75	28.50	40.00	-11.50	QP
2	143.830	46.30	8.22	1.28	29.25	26.55	43.50	-16.95	QP
2	239.987	53.41	12.09	1.58	28.59	38.49	46.00	-7.51	QP
4	287.990	47.93	12.84	1.74	28.47	34.04	46.00	-11.96	QP
5	336.035	49.52	13.99	1.89	28.53	36.87	46.00	-9.13	QP
6	576.644	44.92	18.03	2.58	29.01	36.52	46.00	-9.48	QP





Vertical:



Site

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

: 3G MOBILE PHONE

Model : SP3510

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

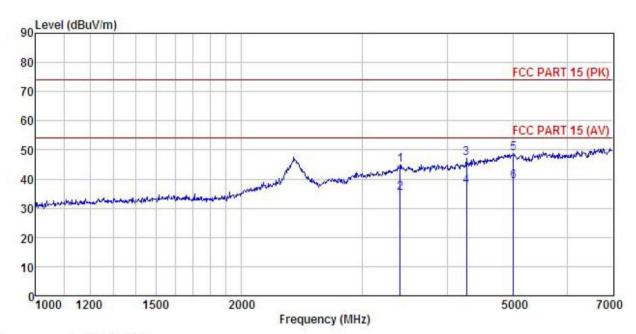
	Freq		Antenna Factor					Over Limit	Remark
_	MHz	dBu₹	-dB/m	₫B	<u>dB</u>	dBu√/m	dBu√/m	<u>dB</u>	
1	66.266	44.51	10.16	0.76	29.75	25.68	40.00	-14.32	QP
2	165.487	47.01	8.82	1.34	29.09	28.08	43.50	-15.42	QP
3	239.987	57.55	12.09	1.58	28.59	42.63	46.00	-3.37	QP
4	480.528	44.10	16.07	2.35	28.92	33.60	46.00	-12.40	QP
5	528.246	46.64	17.15	2.48	29.04	37.23	46.00	-8.77	QP
6	672.845	42.26	18.72	2.85	28.73	35.10	46.00	-10.90	QP





Above 1GHz

Horizontal:



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

EUT

: SP3510 Model Test mode : PC Mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

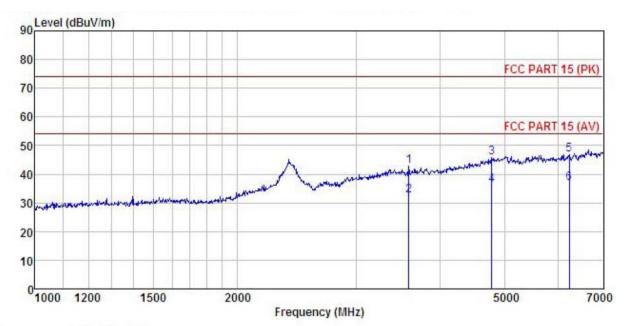
Test Engineer: YT REMARK :

DIIOTA.									
			Antenna Factor				Limit Line		
-	MHz	dBu₹	$-\overline{dB}/\overline{m}$	d <u>B</u>	dB	dBu√/m	dBuV/m	dB	
1	3413.948	46.51	28.53	8.63	38.96	44.71	74.00	-29.29	Peak
2	3413.948	36.94	28.53	8.63	38.96	35.14	54.00	-18.86	Average
3	4270.150	47.79	30.35	9.95	40.89			-26.80	
4	4270.150	37.96	30.35	9.95	40.89	37.37	54.00	-16.63	Average
5	4999.149	46.24	31.79	10.78	39.98	48.83	74.00	-25.17	Peak
6	4999.149	36.51	31.79	10.78	39.98	39.10	54.00	-14.90	Average





Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : 3G MOBILE PHONE : SP3510 Condition

EUT

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

Test Engineer: YT

REMARK

	aves.	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBu∜	-dB/m	<u>d</u> B	<u>d</u> B	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	3598.111	44.95	29.16	8.95	40.33	42.73	74.00	-31.27	Peak
2	3598.111	34.84	29.16	8.95	40.33	32.62	54.00	-21.38	Average
3	4780.340	44.14	31.50	10.54	40.29	45.89	74.00	-28.11	Peak
4	4780.340	34.52	31.50	10.54	40.29	36.27	54.00	-17.73	Average
5	6228.625	42.74	33.28	11.93	41.02	46.93	74.00	-27.07	Peak
6	6228.625	32.59	33.28	11.93	41.02	36.78	54.00	-17.22	Average