## **FCC REPORT**

Applicant: Verykool USA Inc

Address of Applicant: 3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA

**Equipment Under Test (EUT)** 

Product Name: Mobile Phone

Model No.: i126S

FCC ID: WA6I126S

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 12 Jul., 2013

**Date of Test:** 12 Jul., to 17 Jul., 2013

Date of report issued: 17 Jul., 2013

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.

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



## 2 Version

Version No.	Date	Description
00	17 Jul.,2013	Original

Prepared by:	Sera	Date:	17 Jul., 2013
	Report Clerk		
Reviewed by:	Irreent chen	Date:	17 Jul., 2013
	Project Engineer		

Shenzhen Zhongjian Nanfang Testing Co., Ltd. 1st Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

Project No.: CCIS130700212RF

# CCIS

## Report No: CCIS13070021203

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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.

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## 5 General Information

#### 5.1 Client Information

Applicant:	Verykool USA Inc
Address of Applicant:	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA
Manufacturer:	Wingtech Group
Address of Manufacturer:	1-3F,YinFeng,Mansion,No.5097,Luosha Road,Luohu
	district, Shenzhen, 518003

## 5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	i126S
AC adapter:	Model No.: XT-AB-0108-018-K
	Input:100-300V AC,50/60Hz 0.2A
	Output: 5.0V DC MAX 500mA
Power supply:	Rechargeable Li-ion Battery DC3.7V/650mAh

#### 5.3 Test Mode

Operating mode	Detail description
Downloading mode	Keep the EUT in transfer data with SD card mode (Worst case)
Playing mode	Keep the EUT in Playing mode
Recording mode	Keep the EUT in Recording 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	Manufacturer Description		Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	PLEX745 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

## 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

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#### 5.7 Test Instruments list

Radiated Emission:							
Item	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	June 09 2013	June 08 2014	
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	May 25 2013	May 24 2014	
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 25 2013	May 24 2014	
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2013	Mar. 31 2014	
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2013	Mar. 31 2014	
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2013	Mar. 31 2014	
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2013	Mar. 31 2014	
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2013	Mar. 31 2014	
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2013	Mar. 31 2014	
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2013	June 08 2014	
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2013	Mar. 31 2014	
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2013	Mar. 29 2014	
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	May. 25 2013	May. 24 2014	
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2013	Mar. 31 2014	
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2012	Aug. 11 2013	
19	Universal radio		CMU200	CCIS0069	May. 25 2013	May. 24 2014	
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2013	May. 24 2014	

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	June 09 2013	June 08 2014			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2013	May. 24 2014			
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2013	Mar. 31 2014			
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2013	Mar. 31 2014			

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## 6 Test results and Measurement Data

## 6.1 Conducted Emission

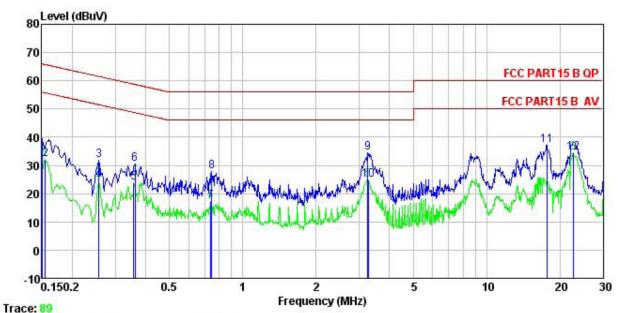
Test Requirement:	FCC Part15 B Section 15.107					
Test Method:	ANSI C63.4:2003					
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:		Limit (d	Ru\/\			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	0.5-30	60	50			
Test setup:	Reference Plane					
Test procedure	AUX Equipment  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m  1. The E.U.T and simulators are impedance stabilization netwo	-	wer through a line			
	impedance for the measuring of the peripheral devices are als that provides a 50ohm/50uH c (Please refers to the block diagonal and the sides of A.C. line are che order to find the maximum emit of the interface cables must be conducted measurement.	equipment. o connected to the main poupling impedance with 5 gram of the test setup and ecked for maximum condussion, the relative position	power through a LISN 0ohm termination. I photographs). ucted interference. In ns of equipment and all			
Test environment:	Temp.: 23 °C Humio	d.: 56% Pres	s.: 1 01kPa			
Measurement Record:		<u> </u>	Uncertainty: 3.28dB			
Test Instruments:	Refer to section 5.7 for details		,			
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					
1 GSt 1 GSuits.	1 400					

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#### Measurement data:

Line:



: CCIS Conducted Test Site : FCC PART15 B QP LISN LINE : 212RF Site Condition

Job NO. : I126S Model

: Downloading mode Test Mode

Power Rating: AC 120V/60Hz Environment: Temp: 23 'C Huni:56% Atmos:101KPa Test Engineer: Vincent

	margarioor.		•					
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	₫B	₫B	dBu₹	dBu∇	<u>dB</u>	
1	0.150	28.29	10.25	0.79	39.33	66.00	-26.67	QP
2	0.155	21.12	10.25	0.79	32.16	55.74	-23.58	Average
3	0.258	21.01	10.24	0.75	32.00	61.51	-29.51	QP
4	0.258	13.77	10.24	0.75	24.76	51.51	-26.75	Average
2 3 4 5 6 7 8 9	0.358	12.80	10.27	0.73	23.80	48.78	-24.98	Average
6	0.361	19.61	10.27	0.73	30.61	58.69	-28.08	QP
7	0.739	6.42	10.18	0.78	17.38	46.00	-28.62	Average
8	0.747	17.03	10.19	0.79	28.01	56.00	-27.99	QP
9	3.258	23.46	10.29	0.91	34.66	56.00	-21.34	QP
10	3.276	13.69	10.29	0.91	24.89	46.00	-21.11	Average
11	17.661	26.11	10.29	0.92	37.32	60.00	-22.68	QP
12	22.655	23.20	10.45	0.90	34.55	50.00	-15.45	Average

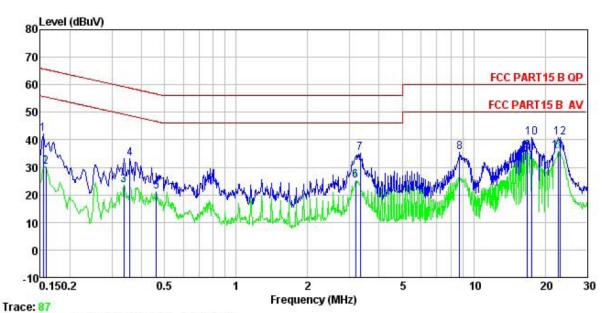
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#### Neutral:



: CCIS Conducted Test Site : FCC PART15 B QP LISN NEUTRAL : 212RF : I126S Site Condition

Job NO. Model

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

162(	Engineer:			20222		200.000.000	12870000	
		Read	LISN	Cable	•	Limit	Over	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu∀	₫B	₫B	dBu₹	dBu₹	dB	
1	0.154	31.10	10.27	0.79	42.16	65.78	-23.62	QP
2	0.158	19.21	10.26	0.78	30.25	55.56	-25.31	Average
3	0.337	12.40	10.25	0.73	23.38	49.27	-25.89	Average
1 2 3 4 5 6 7 8 9	0.358	22.13	10.25	0.73	33.11	58.78	-25.67	QP
5	0.461	10.08	10.27	0.75	21.10	46.67	-25.57	Average
6	3.190	13.94	10.28	0.91	25.13	46.00	-20.87	Average
7	3.328	23.98	10.28	0.91	35.17	56.00	-20.83	QP
8	8.729	24.49	10.24	0.89	35.62	60.00	-24.38	QP
	16.839	24.62	10.27	0.91	35.80	50.00	-14.20	Average
10	17.568	29.52	10.29	0.92	40.73	60.00	-19.27	QP
11	22.655	24.55	10.45	0.90	35.90	50.00	-14.10	Average
12	23.140	29.41	10.48	0.89	40.78	60.00	-19.22	QP

#### Notes:

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

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#### 6.2 Radiated Emission

0.2 Radiated Ellission									
Test Requirement:	FCC Part15 B Section 15.109								
Test Method:	ANSI C63.4:2003	3							
Test Frequency Range:	30MHz to 6000M	Hz							
Test site:	Measurement Dis	stance: 3m (Ser	mi-Anechoic Ch	amber)					
Receiver setup:	Frequency								
	30MHz-1GHz	Quasi-peak		300KHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
	715070 70712	Peak	1MHz	10Hz	Average Value				
Limit:	Freque	ency	Limit (dBuV/	m @3m)	Remark				
	30MHz-8	8MHz	40.0	)	Quasi-peak Value				
	88MHz-2	16MHz	43.5		Quasi-peak Value				
	216MHz-9	60MHz	46.0	)	Quasi-peak Value				
	960MHz-1GHz 54.0 Quasi-peak								
	Above 1	GHz	54.0		Average Value				
	7,5000	OTIZ	74.0	)	Peak Value				
Test setup:	Tum 0.8 Table 0.8 Ground Plane —  Above 1GHz	Sm 4m	Sign						

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Test Procedure:	<ol> <li>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.</li> </ol>							
	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								

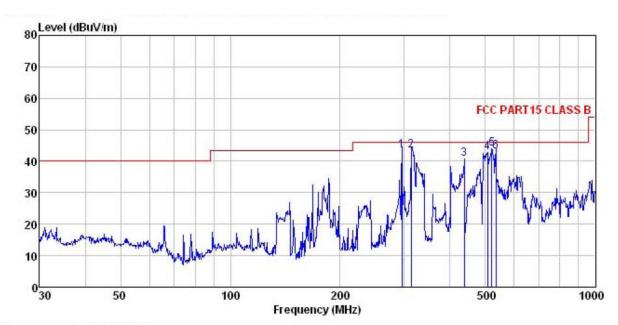
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#### **Measurement Data**

Below 1GHz

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL : 212RF Condition

Job NO.

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

20	THETHERY.	ATHOCH							
	3220000	ReadAntenna					Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀	$\overline{-dB/m}$		<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	dB	
1	295. 147	57.10	12.95	2.93	29.44	43.54	46.00	-2.46	QP
1 2 3 4 5	313.276	56.66	13.24	2.98	29.50	43.38	46.00	-2.62	QP
3	437.120	52.23	15.55	3.17	30.35	40.60	46.00	-5.40	QP
4	506.479	53.03	16.74	3.65	30.52	42.90	46.00	-3.10	QP
5	520.888	53.75	17.00	3.73	30.53	43.95	46.00	-2.05	QP
6	533.832	52.69	17.26	3.80	30.53	43.22	46.00	-2.78	QP

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Vertical:



Site

Condition

Job NO.

Test mode : Downloading mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55% Test Engineer: Vincent

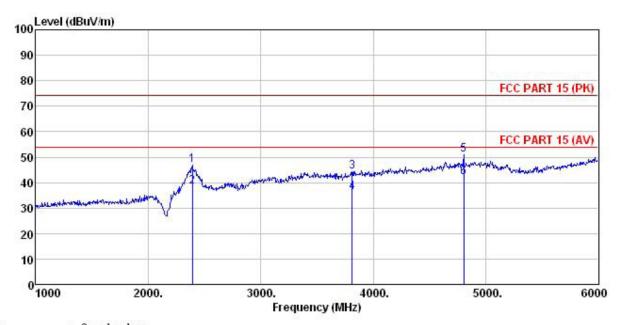
1250	Freq		Antenna Factor						Remark
	MHz	dBu₹	dB/m	₫B	d₿	dBuV/m	dBuV/m	dB	
1	181.920	42.46	9.84	2.74	27.02	28.02	43.50	-15.48	QP
2	295.147	50.34	12.95	2.93	29.44	36.78	46.00	-9.22	QP
3	313.276	50.72	13.24	2.98	29.50	37.44	46.00	-8.56	QP
1 2 3 4 5 6	519.065	52.28	17.00	3.72	30.53	42.47	46.00	-3.53	QP
5	533.832	52.67	17.26	3.80	30.53	43.20	46.00	-2.80	QP
6	599.321	43.25	18.45	3.94	30.55	35.09	46.00	-10.91	QP

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Above 1GHz

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : 212RF Condition

Job NO.

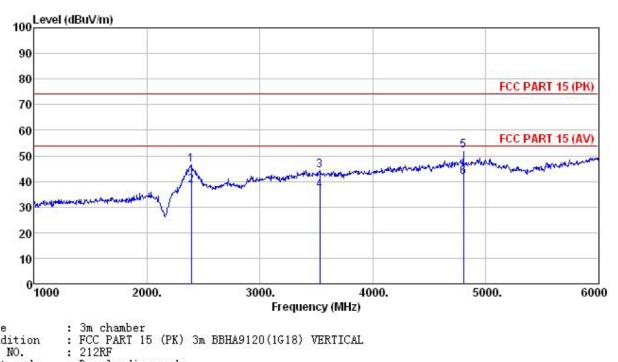
Test mode : Downloading mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55% Test Engineer: Vincent

000	THE THOUL .	ATTIOUTE							
		ReadAnter			Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	āB	dB	dBuV/m	dBuV/m	<u>a</u> B	
	лити	ши	CED/ III	ш.	ш	and 47 III	шиу/ ж	ш	
1	2390.000	44.98	27.58	5.67				-27.12	
2	2390.000	36.52	27.58	5.67	31.35	38.42	54.00	-15.58	Average
3	3810.000	47.83	29.57	7.51	40.58	44.33	74.00	-29.67	Peak
4	3810.000	39.54	29.57	7.51	40.58	36.04	54.00	-17.96	Average
5	4805.000	50.78	31.53	8.90	40.24	50.97	74.00	-23.03	Peak
6	4805.000	41.78	31.53	8.90	40.24	41.97	54.00	-12.03	Average

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Vertical:



Site

Condition

Job NO.

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

	THE THOOL .	ATTIOOTI	•						
		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu₹	dB/m	<u>dB</u>	dB	dBuV/m	dBuV/m	dB	
1	2390.000	44.66	27.58	5.67	31.35	46.56	74.00	-27.44	Peak
2	2390.000	36.58	27.58	5.67	31.35	38.48	54.00	-15.52	Average
3	3530.000	49.06	29.01	6.21	39.83	44.45	74.00	-29.55	Peak
4	3530.000	41.27	29.01	6.21	39.83	36.66	54.00	-17.34	Average
5	4805.000	51.94	31.53	8.90	40.24	52.13	74.00	-21.87	Peak
6	4805.000	41.39	31.53	8.90	40.24				Average

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