

FCC REPORT

Applicant:	Verykool USA Inc			
Address of Applicant:	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA			
Equipment Under Test (E	:UT)			
Product Name:	Mobile Phone			
Model No.:	i240			
FCC ID:	WA6I240			
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B			
Date of sample receipt:	13 Nov., 2013			
Date of Test:	18 Nov., to 10 Dec., 2013			
Date of report issued:	11 Dec., 2013			
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.

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2 Version

Version No.	Date	Description
00	11 Dec., 2013	Original

Prepared by:

Shinkey Li

Date:

11 Dec., 2013

Report Clerk

Reviewed by:

Project Engineer

Date:

11 Dec., 2013

Project No.: CCIS131100477RF



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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:	Verykool USA Inc
Address of Applicant:	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA
Manufacturer/Factory:	Verykool Wireless Technology Ltd.
Address of Manufacturer/ Factory:	Room 1701, (5th floor), Reward Building C, No.203, 2nd Section of WangJing, Li Ze Zhong Yuan, ChaoYang District, Beijing, P.R. of China 100102

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	i240
AC adapter:	Model No.: NB-0500500U
	Input:100-240V AC,50/60Hz 0.15A
	Output: 5.0V DC 0.5A
Power supply:	Rechargeable Li-ion Battery DC3.7V/800mAh

5.3 Test Mode

Operating mode	Detail description	
PC mode	Keep the EUT in data exchange with PC(worst case)	
Playing mode	Keep the EUT in playing mode	
Recording mode	Keep the EUT in recording mode	
Charging and FM mode	Keep the EUT in FM receiving 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.

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

5.4 Description of Support Units

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.	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 2013	Aug. 11 2014
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	May. 25 2013	May. 24 2014
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2013	May. 24 2014

Cond	Conducted Emission:							
ltem	Test Equipment	Manufacturer Model No.	Model No.	Inventory	Cal.Date	Cal.Due date		
nem			model No.	No.	(mm-dd-yy)	(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		

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

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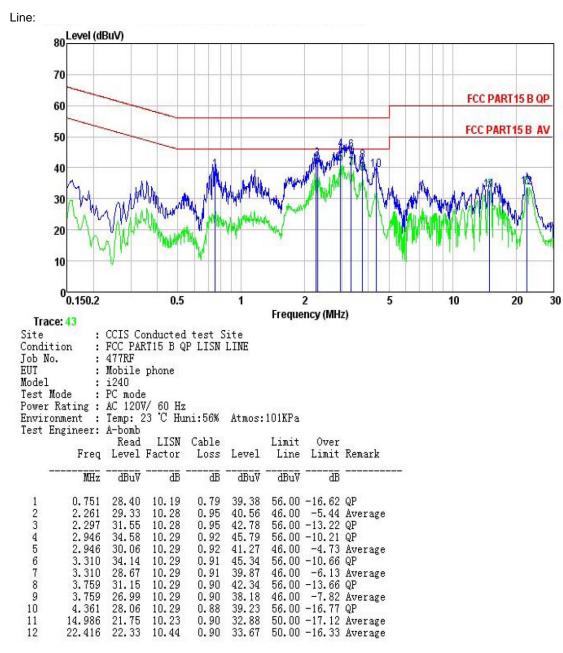
6 Test results and Measurement Data

6.1 Conducted Emission

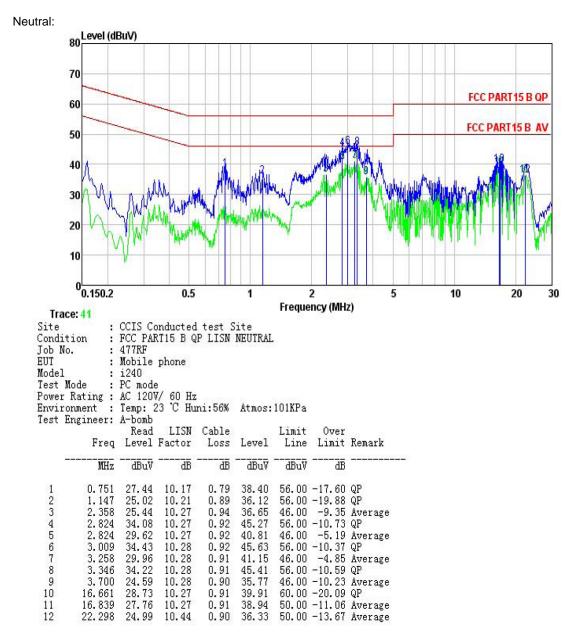
V . 1	Conducted Emission					
	Test Requirement:	FCC Part15 B Section 15.107				
	Test Method:	ANSI C63.4:2003				
	Test Frequency Range:	150kHz to 30MHz				
	Class / Severity:	Class B				
	Receiver setup:	RBW=9kHz, VBW=30kHz				
	Limit:		Limit (d	Bu\/)		
		Frequency range (MHz)	Quasi-peak	Average		
		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	LISN 40cm 80cm AUX Equipment E.U.T Test table/Insulation plane 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 of impedance stabilization network impedance for the measuring expension 2. The peripheral devices are also that provides a 50ohm/50uH co (Please refers to the block diagon) 3. Both sides of A.C. line are che order to find the maximum emitidation	k(L.I.S.N.). The provide a equipment. o connected to the main p oupling impedance with 5 gram of the test setup and ecked for maximum condu- ssion, the relative position	wer through a line a 50ohm/50uH coupling bower through a LISN 0ohm termination. d photographs). ucted interference. In ns of equipment and all		
	Test environment:	of the interface cables must be conducted measurement. Temp.: 23 °C Humid				
	Measurement Record:	· · · ·		Uncertainty: 3.28dB		
	Test Instruments:	Refer to section 5.7 for details				
	Test mode:	Refer to section 5.3 for details				
		Pass				



Measurement data:







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

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	120 kHz	300KHz	Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		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	5	Quasi-peak Value	
	216MHz-9	60MHz	46.0)	Quasi-peak Value	
	960MHz-	·1GHz	54.0)	Quasi-peak Value	
	Above 1	IGH7	54.0		Average Value	
		0112	74.0)	Peak Value	
Test setup:	Above 1GHz 54.0 Average Value Below 1GHz 74.0 Peak Value Below 1GHz					

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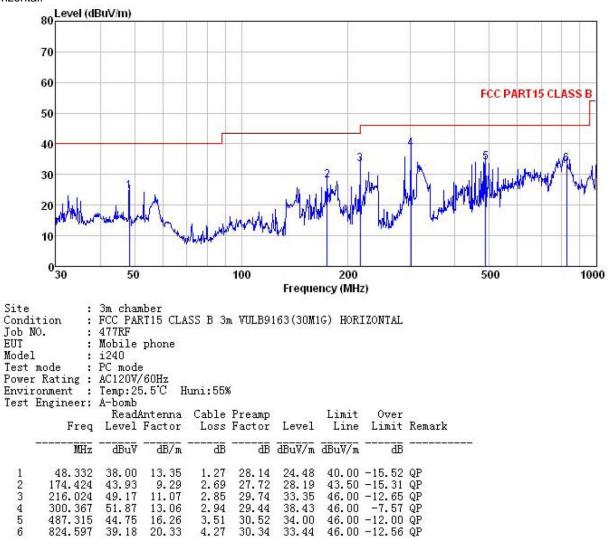
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	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

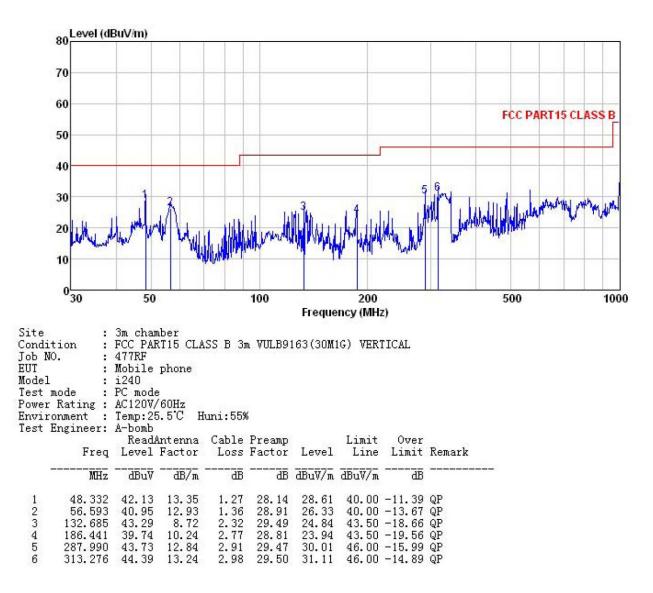
Below 1GHz

Horizontal:





Vertical:





Above 1GHz

