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: SMART PHONE

Model No.: s5012

FCC ID: WA6S5012

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 25 Jul., 2014

Date of Test: 28 Jul., to 14 Aug., 2014

Date of report issued: 15 Aug., 2014

Test Result: 25 Jul., 2014

* 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	15 Aug., 2014	Original

Prepared by: Date: 15 Aug., 2014

Report Clerk

Reviewed by: Date: 15 Aug., 2014

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.



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:	Amer Mobile Co.LTD				
Address of Manufacturer:	9 th Floor Nongke Commerical center, Hongli West Road Futian District Shenzhen, China				

5.2 General Description of E.U.T.

Product Name:	SMART PHONE		
Model No.:	s5012		
Power supply:	Rechargeable Li-ion Battery DC3.7V-1800mAh		
	Model:SC050070-US		
AC adapter :	Input: AC 100-240V 50/60Hz 0.4A		
	Output: DC 5.0V, 700mA		

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		N/A	DoC
DELL	DELL MONITOR		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

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 2014	June 08 2015	
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	May 25 2014	May 24 2015	
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 25 2014	May 24 2015	
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2014	Mar. 31 2015	
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2014	Mar. 31 2015	
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2014	Mar. 31 2015	
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2014	Mar. 31 2015	
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2014	Mar. 31 2015	
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2014	Mar. 31 2015	
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2014	June 08 2015	
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2014	Mar. 31 2015	
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2014	Mar. 29 2015	
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 2014	May. 24 2015	
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2014	Mar. 31 2015	
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 22 2013	Aug. 22 2014	
19	Universal radio communication tester	Universal radio Rhode & Schwarz		CCIS0069	May. 25 2014	May. 24 2015	
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2014	May. 24 2015	

Conducted Emission:									
Item	Test Equipment	Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date			
110111	root =qaipinoitt	marraractaror	inidadi Noi	No.	(mm-dd-yy)	(mm-dd-yy)			
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2014	June 08 2015			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2014	May. 24 2015			
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2014	Mar. 31 2015			
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2014	Mar. 31 2015			



6 Test results and Measurement Data

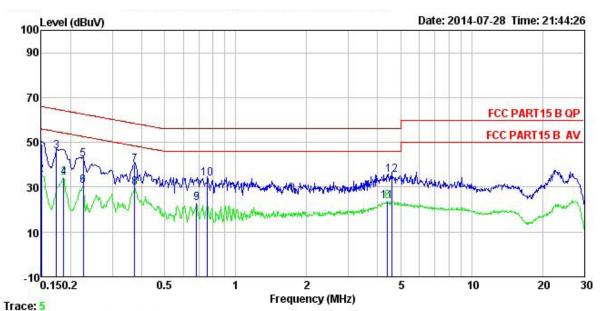
6.1 Conducted Emission

		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	BuV)				
	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 procedure	Reference Plane LISN 40cm 80cm Filter AC power 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 connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH						
	coupling impedance for the med 2. The peripheral devices are also that provides a 50ohm/50uH or (Please refers to the block diagonal of the interface cables must be conducted measurement.	o connected to the main poupling impedance with 5 gram of the test setup and ecked for maximum conduitsion, the relative position	Oohm termination. d photographs). ucted interference. In ns of equipment and all				
Test environment:	Temp.: 23 °C Humio	d.: 56% Pres	s.: 1 01kPa				
Measurement Record:			Uncertainty: 3.28dB				
Test Instruments:	Refer to section 5.7 for details		<u> </u>				
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						



Measurement data:

Line:



: CCIS Shielding Room : FCC PART15 B QP LISN LINE : 605RF : SMART PHONE Site

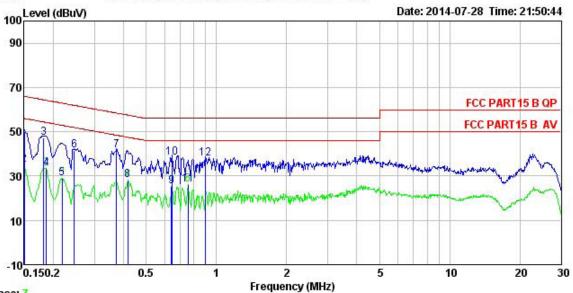
Condition
Job No. EUT Model : s5012 Test Mode : PC Mode

Power Rating: AC120V/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa Test Engineer: Carey

1626	rugineer.		TTCN	C-11-		T 2222	0	
	Freq	Read Level		(7)(5)7)(7)(7)(1)(1)	Level	Limit Line		Remark
	MHz	—dBu∜	<u>dB</u>		—dBu√	—dBu₹	<u>ab</u>	
1	0.150	38.27	0.27	10.78	49.32	66.00	-16.68	QP
1 2 3 4 5 6 7 8 9	0.150	24.50	0.27	10.78	35.55	56.00	-20.45	Average
3	0.174	35.10	0.27	10.77	46.14	64.77	-18.63	QP
4	0.186	23.40	0.28	10.76	34.44	54.20	-19.76	Average
5	0.226	31.44	0.27	10.75	42.46	62.61	-20.15	QP
6	0.226	19.65	0.27	10.75	30.67	52.61	-21.94	Average
7	0.373	28.95	0.28	10.73	39.96	58.43	-18.47	QP
8	0.373	18.61	0.28	10.73	29.62	48.43	-18.81	Average
	0.683	12.00	0.22	10.77	22.99	46.00	-23.01	Average
10	0.759	22.80	0.23	10.80	33.83	56.00	-22.17	QP
11	4.407	12.73		10.87	23.89			Average
12	4.574	24.46	0.29	10.87	35.62	56.00	-20.38	QP



Neutral:



Trace: 7

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

Job No. EUT 605RF SMART PHONE : s5012 : PC Mode Model Test Mode

Power Rating: AC120V/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Carey

	Freq	Read Level	LISN Factor	7.057373.73.73	Level	Limit Line		Remark
	MHz	dBu∜	<u>dB</u>		dBu₹	dBu√	<u>ab</u>	
1	0.150	38.94	0.25	10.78	49.97	66.00	-16.03	QP
2	0.150	23.90	0.25	10.78	34.93	56.00	-21.07	Average
3	0.182	36.14	0.25	10.77	47.16	64.42	-17.26	QP
2 3 4 5 6 7 8 9	0.186	22.61	0.25	10.76	33.62	54.20	-20.58	Average
5	0.219	17.92	0.25	10.76	28.93	52.88	-23.95	Average
6	0.246	30.34	0.26	10.75	41.35	61.91	-20.56	QP
7	0.373	30.38	0.25	10.73	41.36	58.43	-17.07	QP
8	0.417	17.25	0.26	10.73	28.24	47.51	-19.27	Average
9	0.641	14.38	0.21	10.77	25.36	46.00	-20.64	Average
10	0.647	27.38	0.21	10.77	38.36	56.00	-17.64	QP
11	0.755	15.14	0.19	10.79	26.12	46.00	-19.88	Average
12	0.899	26.65	0.21	10.84	37.70	56.00	-18.30	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

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	Remark						
	30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
	Above 10112	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			
	Ahove 1	GHz	54.0		Average Value			
	710000	0112	74.0)	Peak Value			
Test setup:	Above 1GHz 74.0 Peak Value Below 1GHz Antenna Tower FF Test Receiver Ground Plane Above 1GHz Antenna Tower Antenna Tower Horn Antenna Spectrum Analyzer Amplifier							



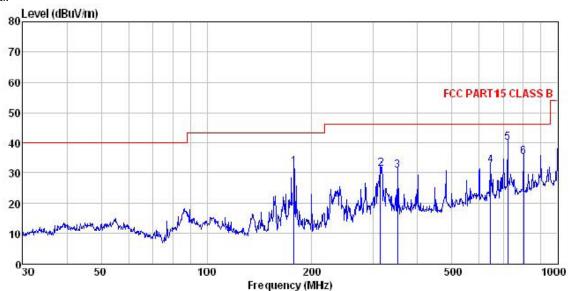
Test Procedure:	The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.							
	2. The EUT was set 3 meters away from the interference-receiving antenna, which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

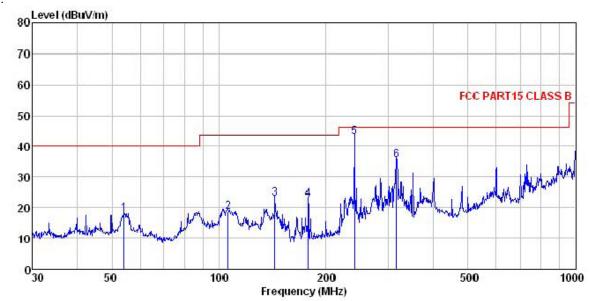
Pro 605RF SMART PHONE EUT . soul2
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey
REMARK :

EMAKK		Read	Antenna	Cable	Preamn		Limit	Over	
	Freq		Factor						Remark
-	MHz	dBu∜	dB/m		dB	$\overline{dB}u\overline{V}/\overline{m}$	$\overline{dBuV/m}$		
1	177.509	50.16	9.49	1.36	28.99	32.02	43.50	-11.48	QP
2	314.377	44.71	13.26	1.82	28.48	31.31	46.00	-14.69	QP
3	350.477	43.10	14.27	1.94	28.56	30.75	46.00	-15.25	QP
4	647.386	39.85	18.62	2.78	28.79	32.46	46.00	-13.54	QP
5	721.726	46.69	19.10	2.97	28.58	40.18	46.00	-5.82	QP
6	201 726	40 51	20.06	3 17	28 10	35 55	46 00	-10.45	OP

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Vertical:



Site

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

Pro 605RF : SMART PHONE EUT Model : s5012
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

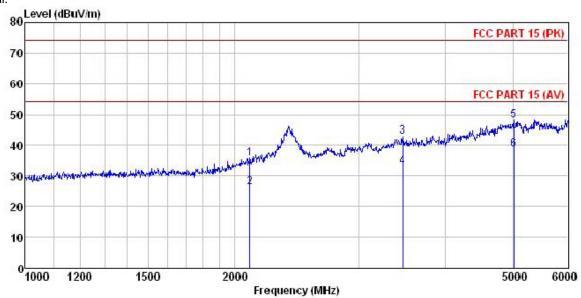
REMARK

AARAJILE.									
		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBuV	dB/m	<u>ab</u>	<u>dB</u>	dBu√/m	$\overline{dB} \overline{uV}/\overline{m}$	dB	
1	54.261	34.09	13.07	0.64	29.80	18.00	40.00	-22.00	QP
2	106.013	34.45	12.59	1.01	29.48	18.57	43.50	-24.93	QP
3	143.830	42.65	8.22	1.28	29.25	22.90	43.50	-20.60	QP
4	177.509	40.78	9.49	1.36	28.99	22.64	43.50	-20.86	QP
5	239.987	57.80	12.09	1.58	28.59	42.88	46.00	-3.12	QP
6	314.377	48.92	13.26	1.82	28.48	35. 52	46.00	-10.48	ΘP



Above 1GHz

Horizontal:



Site

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

: 605RF

Pro EUT : SMART PHONE Model : \$5012 Test mode : PC mode Power Rating : AC 120V/60Hz

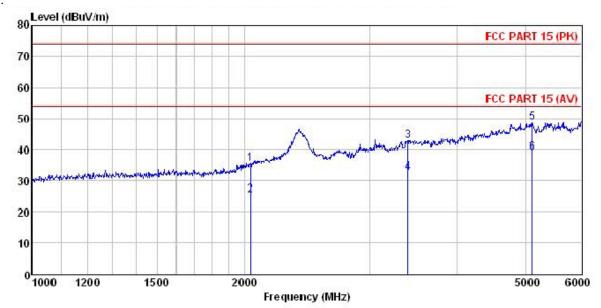
Environment : Temp: 25.5°C Huni: 55% Test Engineer: Carey

REMARK :

			ReadAntenna Cal Level Factor Lo				Limit Line	Over Limit	Remark
=	MHz	dBu∀	— <u>dB</u> /m	<u>dB</u>	<u>dB</u>	dBuV/m	dBu√/m	<u>ab</u>	
1	2095.928	44.24	26.97	5. 01	40.56	35.66	74.00	-38.34	Peak
2	2095.928	34.75	26.97	5.01	40.56	26.17	54.00	-27.83	Average
	3480.112	47.06	28.76	6.30				-31.34	
4	3480.112	37.57	28.76	6.30	39.46	33.17	54.00	-20.83	Average
5	5015.753	47.06	31.85	9.12	39.99	48.04	74.00	-25.96	Peak
6	5015.753	37.81	31.85	9.12	39.99	38.79	54.00	-15.21	Average



Vertical:



Site

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

Pro EUT : 605RF : SMART PHONE Model : s5012 Test mode : PC mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey REMARK :

SHOTOL									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
=	MHz	dBu₹	— <u>dB</u> /m	<u>ab</u>	<u>d</u> B	dBuV/m	dBuV/m		
1	2036.695	44.97	26.34	4.90	40.73	35.48	74.00	-38.52	Peak
2	2036.695	34.80	26.34	4.90	40.73	25.31	54.00	-28.69	Average
2	3399.987	46.77	28.46	6.44	38.84	42.83	74.00	-31.17	Peak
	3399.987	36.46	28.46	6.44	38.84	32.52			Average
	5097.292 5097.292	47.60 37.81	32.11 32.11	9.13	40.04 40.04	48.80		-25.20 -14 99	Peak Average
~	000.0202	001	O 1 1		10.01	00.01	01.00		moraço