

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.: i607

FCC ID: WA6I607

Applicable standards: FCC CFR Title 47 Part 15 Subpart B: 2011

Date of sample receipt: 08 Jan.,2013

Date of Test: 09 Jan., to 21 Jan.2013

Date of report issued: 22 Jan.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.

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.

2 Version

Version No.	Date	Description
00	22 Jan.2013	<i>Original</i>

Prepared by:

Lisa chen

Date:

22 Jan.2013

Report Clerk

Reviewed by:

Vincent chen

Date:

22 Jan.2013

Project Engineer

3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 TEST SUMMARY	4
5 GENERAL INFORMATION	5
5.1 CLIENT INFORMATION	5
5.2 GENERAL DESCRIPTION OF E.U.T.	5
5.3 OPERATING MODES	5
5.4 DESCRIPTION OF SUPPORT UNITS	6
5.5 DEVIATION FROM STANDARDS.....	6
5.6 ABNORMALITIES FROM STANDARD CONDITIONS.....	6
5.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	6
5.8 TEST FACILITY.....	6
5.9 TEST LOCATION	6
6 TEST INSTRUMENTS LIST	7
7 TEST RESULTS AND MEASUREMENT DATA	8
7.1 CONDUCTED EMISSIONS.....	8
7.2 RADIATED EMISSION	11
8 TEST SETUP PHOTO	17
9 EUT CONSTRUCTIONAL DETAILS	18

4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part15.107	Pass
Readiated Emissions	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:	4350 Executive Dr. #100, San Diego
Manufacturer:	Verykool Wireless Technology Ltd.
Address of Manufacturer:	Room 1701, 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.:	i607
AC adapter:	Model:CYSK05-050050 Input:100-240V AC,50/60Hz 0.15A Output:5V DC MAX500mA
Power supply:	Rechargeable Li-ion Battery DC3.7V/700mAh

5.3 Operating Modes

Operating mode	Detail description
Downloading mode	Keep the EUT in Downloading mode(Worst case)
Camera mode	Keep the EUT in Camera mode
Play mode	Keep the EUT in Play mode
Recording mode	Keep the EUT in Recording mode
FM mode	Keep the EUT in FM receiver mode
Mobile TV mode	Keep the EUT in Mobile TV 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	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	Printer	CB495A	05257893	DoC
SANDISK	TF Card	4GB	N/A	DoC

5.5 Deviation from Standards

None

5.6 Abnormalities from Standard Conditions

None.

5.7 Other Information Requested by the Customer

None.

5.8 Test Facility

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

● **FCC —Registration No.: 817957**

China Certification & Inspection Services Co., Ltd., Shenzhen 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

● **Industry Canada (IC)**

The 3m Semi-anechoic chamber of China Certification & Inspection Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

5.9 Test Location

All tests were performed at:

China Certification & Inspection Services Co., Ltd.

Address: 1st Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-23118282

Fax: 0755-23116366

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2012	June 08 2013
2	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr.01 2012	Mar. 31 2013
3	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 04 2012	June 03 2013
4	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 30 2012	May. 29 2013
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2012	Mar. 31 2013
7	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2012	Mar. 31 2013
8	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2012	Mar. 31 2013
9	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2012	Mar. 31 2013
10	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2012	Mar. 31 2013
11	Amplifier(10KHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2012	Mar. 31 2013
12	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2012	June 08 2013
13	Spectrum analyzer	Rohde & Schwarz	FSP	CCIS0023	May 29 2012	May 28 2013
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2012	June 08 2013
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2012	May. 24 2013
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2012	Mar. 31 2013
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2012	Mar. 31 2013

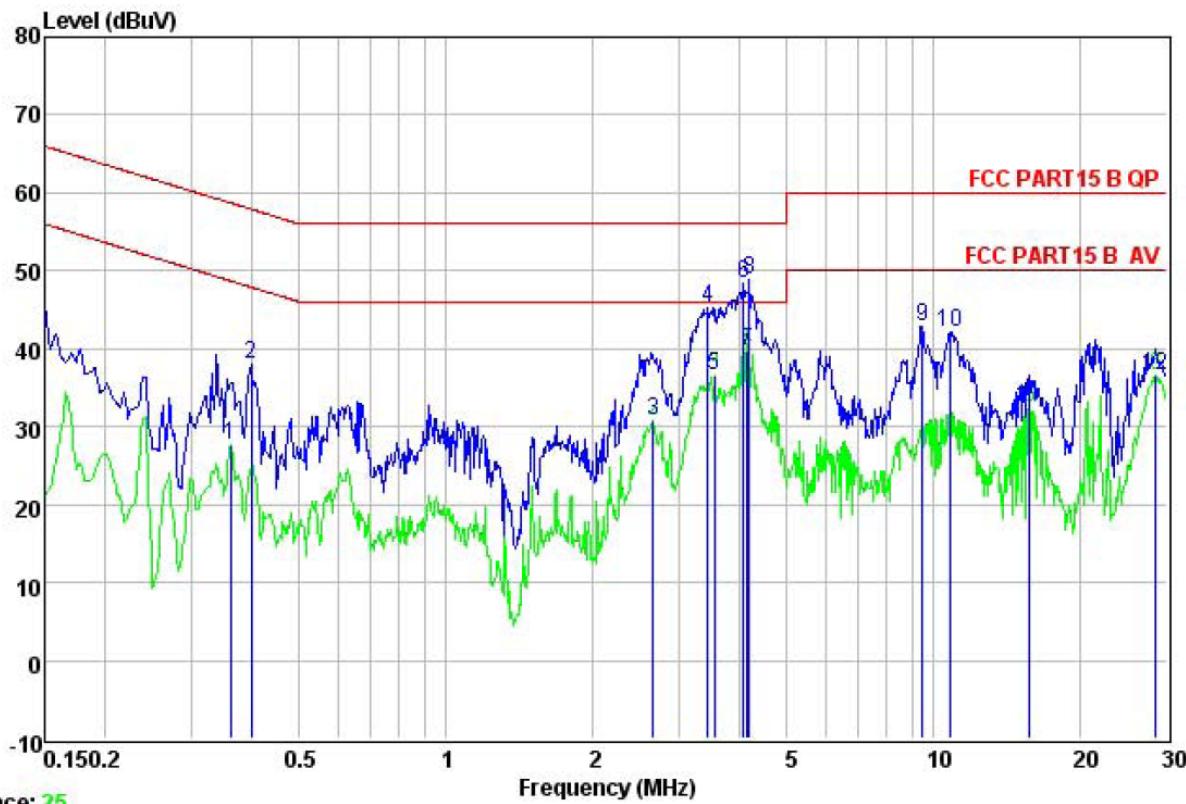
7 Test results and Measurement Data

7.1 Conducted Emissions

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:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>0.5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>			Frequency range (MHz)	Limit (dB μ V)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	0.5-30	60	50
Frequency range (MHz)	Limit (dB μ V)																
	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:	<p>Reference Plane</p> <p><i>Remark</i> <i>E.U.T: Equipment Under Test</i> <i>LISN: Line Impedance Stabilization Network</i> <i>Test table height=0.8m</i></p>																
Test procedure	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). They provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. 																
Test environment:	Temp.:	23 °C	Humid.: 56% Press.: 1 01kPa														
Measurement Record:	Uncertainty: 3.28dB																
Test Instruments:	Refer to section 6 for details																
Test mode:	Pre-scan all test mode in the section 5.3, and found the below mode which it is worse case mode.																
Test results:	Pass																

Measurement data:

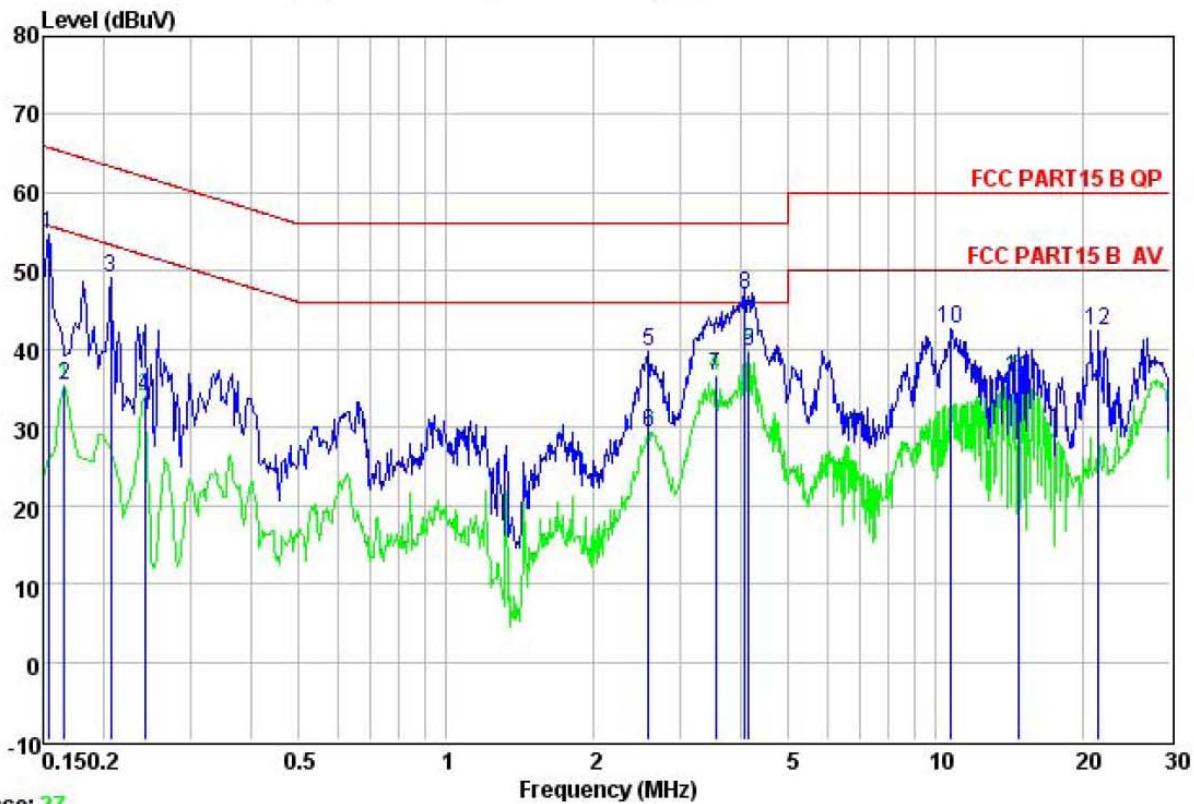
Line:



Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN LINE
 Job. no : 003RF
 EUT : Mobile phone
 Model : I607
 Test Mode : Downloading mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Vincent

	Read	LISN	Cable	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit Remark
MHz	dBuV		dB	dBuV	dBuV	dB
1	0.361	16.58	10.27	0.73	27.58	48.69 -21.11 Average
2	0.398	26.93	10.28	0.72	37.93	57.90 -19.97 QP
3	2.650	19.48	10.28	0.94	30.70	46.00 -15.30 Average
4	3.436	33.97	10.29	0.90	45.16	56.00 -10.84 QP
5	3.547	25.39	10.29	0.90	36.58	46.00 -9.42 Average
6	4.070	37.29	10.29	0.89	48.47	56.00 -7.53 QP
7	4.136	28.49	10.29	0.89	39.67	46.00 -6.33 Average
8	4.180	37.73	10.29	0.89	48.91	56.00 -7.09 QP
9	9.451	31.65	10.25	0.93	42.83	60.00 -17.17 QP
10	10.790	30.91	10.25	0.94	42.10	60.00 -17.90 QP
11	15.718	21.44	10.24	0.90	32.58	50.00 -17.42 Average
12	28.452	24.91	10.78	0.87	36.56	50.00 -13.44 Average

Neutral:



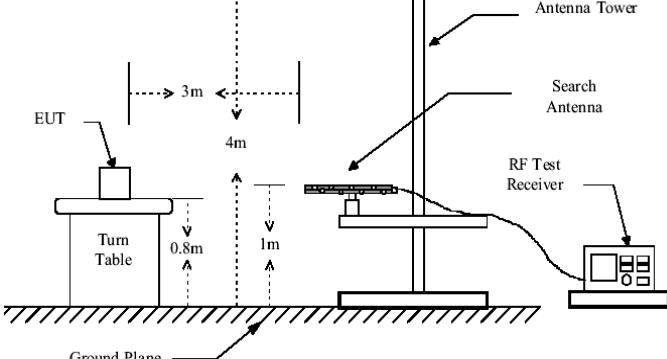
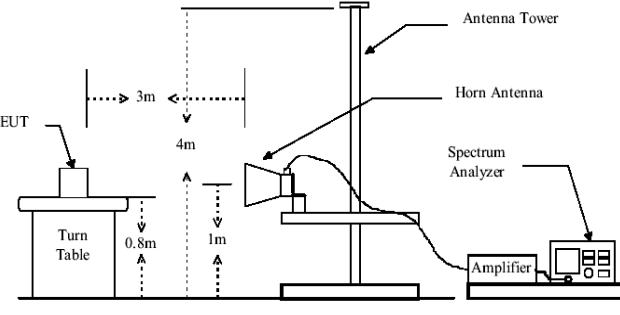
Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN NEUTRAL
 Job. no : 003RF
 EUT : Mobile phone
 Model : I607
 Test Mode : Downloading mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Huni:56% Atmos:101KPa
 Test Engineer: Vincent

	Read	LISN	Cable	Limit	Over			
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV		dB	dBuV	dBuV		
1	0.154	43.56	10.27	0.79	54.62	65.78	-11.16	QP
2	0.166	24.34	10.26	0.78	35.38	55.16	-19.78	Average
3	0.206	38.22	10.23	0.76	49.21	63.36	-14.15	QP
4	0.242	23.00	10.23	0.75	33.98	52.04	-18.06	Average
5	2.581	28.52	10.27	0.94	39.73	56.00	-16.27	QP
6	2.581	18.21	10.27	0.94	29.42	46.00	-16.58	Average
7	3.547	25.36	10.28	0.90	36.54	46.00	-9.46	Average
8	4.070	35.70	10.28	0.89	46.87	56.00	-9.13	QP
9	4.136	28.64	10.28	0.89	39.81	46.00	-6.19	Average
10	10.733	31.49	10.22	0.94	42.65	60.00	-17.35	QP
11	14.672	25.12	10.23	0.90	36.25	50.00	-13.75	Average
12	21.486	30.97	10.41	0.91	42.29	60.00	-17.71	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.

7.2 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	100kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
	Peak	1MHz	10Hz		Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	30MHz-88MHz	40.0		Quasi-peak Value	
	88MHz-216MHz	43.5		Quasi-peak Value	
	216MHz-960MHz	46.0		Quasi-peak Value	
	960MHz-1GHz	54.0		Quasi-peak Value	
	Above 1GHz	54.0		Average Value	
		74.0		Peak Value	
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p> 				

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 chamber. 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.: 101kPa
Measurement Record:	Uncertainty: 4.88dB
Test Instruments:	Refer to section 6 for details
Test mode:	Pre-scan all test mode in the section 5.3, and found the below mode which it is worse case mode.
Test results:	Passed

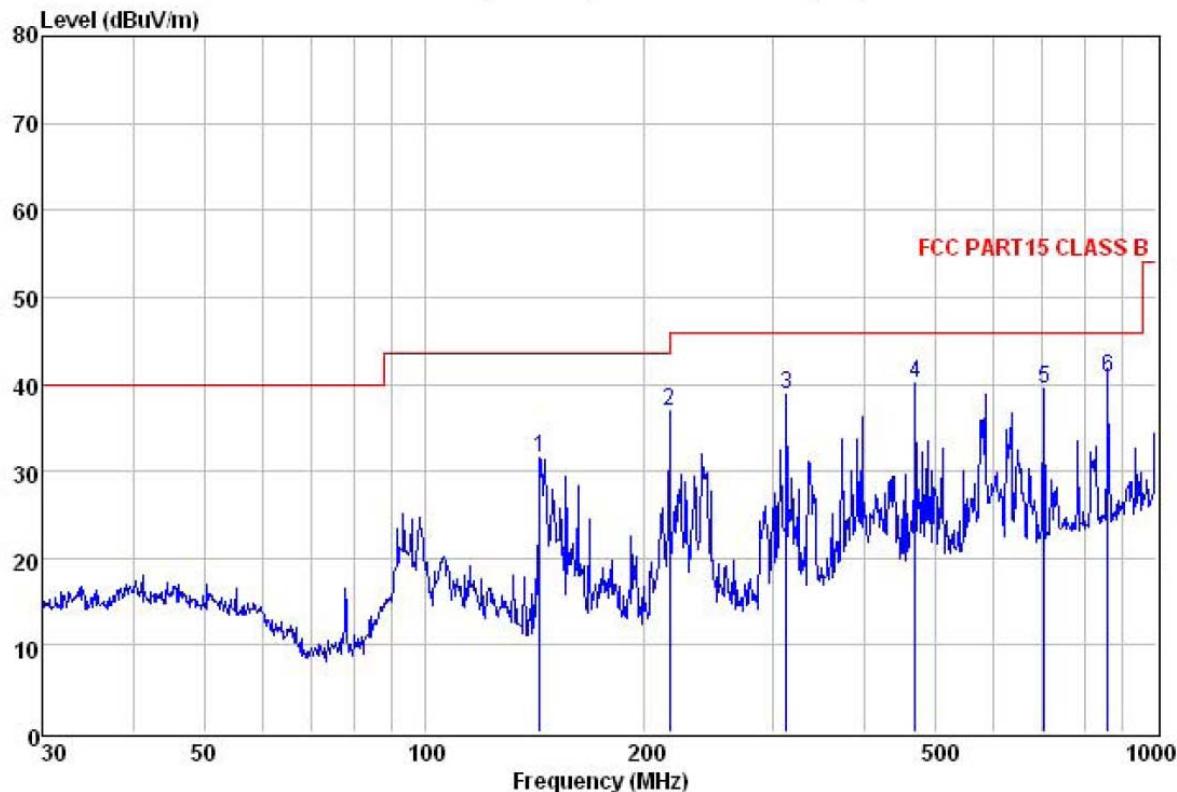
Remark:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.

Measurement Data

Below 1GHz

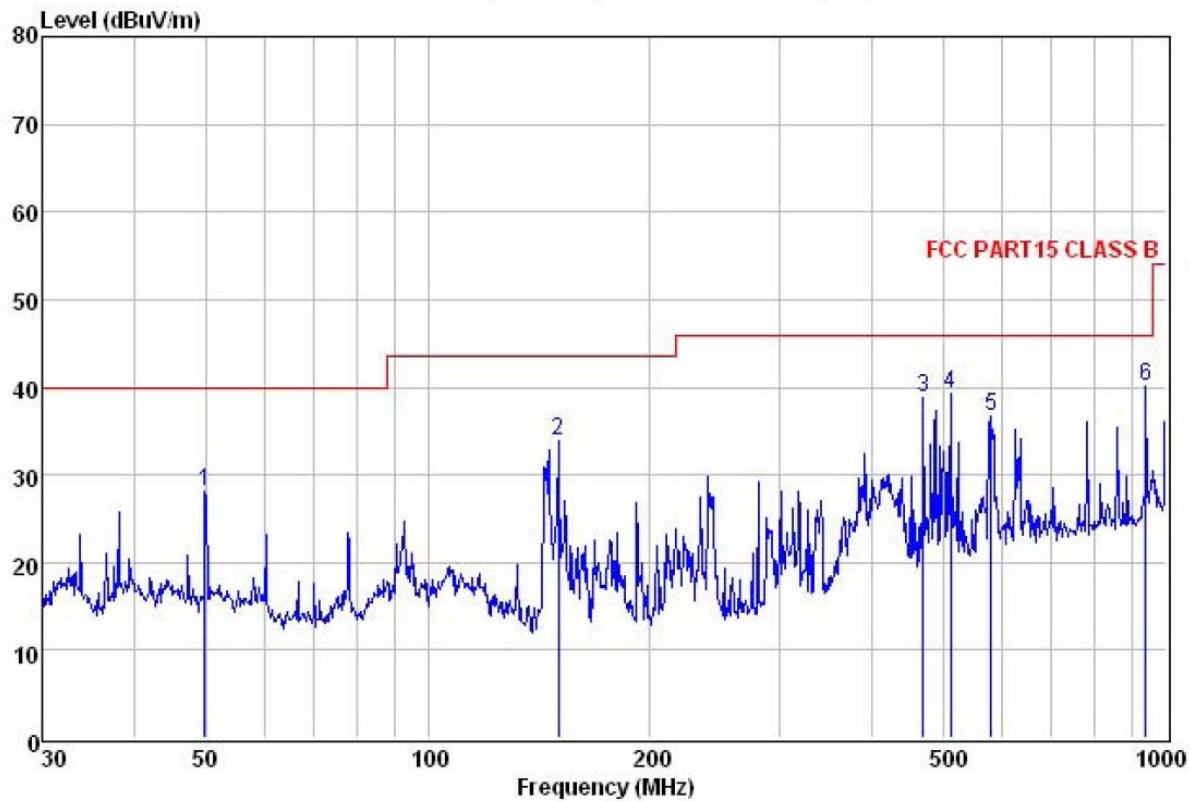
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) HORIZONTAL
 Job No. : 003RF
 EUT : Mobile Phone
 Model : I607
 Test mode : Downloading mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Huni:55% Atmos:101Kpa
 Test Engineer: Vincent

Freq	Read	Antenna	Cable	Preamp	Limit		Over	Remark
					Level	Factor		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	143.830	50.10	8.22	2.44	29.32	31.44	43.50	-12.06 QP
2	216.024	52.77	11.07	2.85	29.74	36.95	46.00	-9.05 QP
3	312.179	52.10	13.22	2.98	29.49	38.81	46.00	-7.19 QP
4	468.876	51.44	15.83	3.36	30.52	40.11	46.00	-5.89 QP
5	704.226	47.02	18.86	4.19	30.59	39.48	46.00	-6.52 QP
6	860.035	46.22	20.69	4.10	30.24	40.77	46.00	-5.23 QP

Vertical:

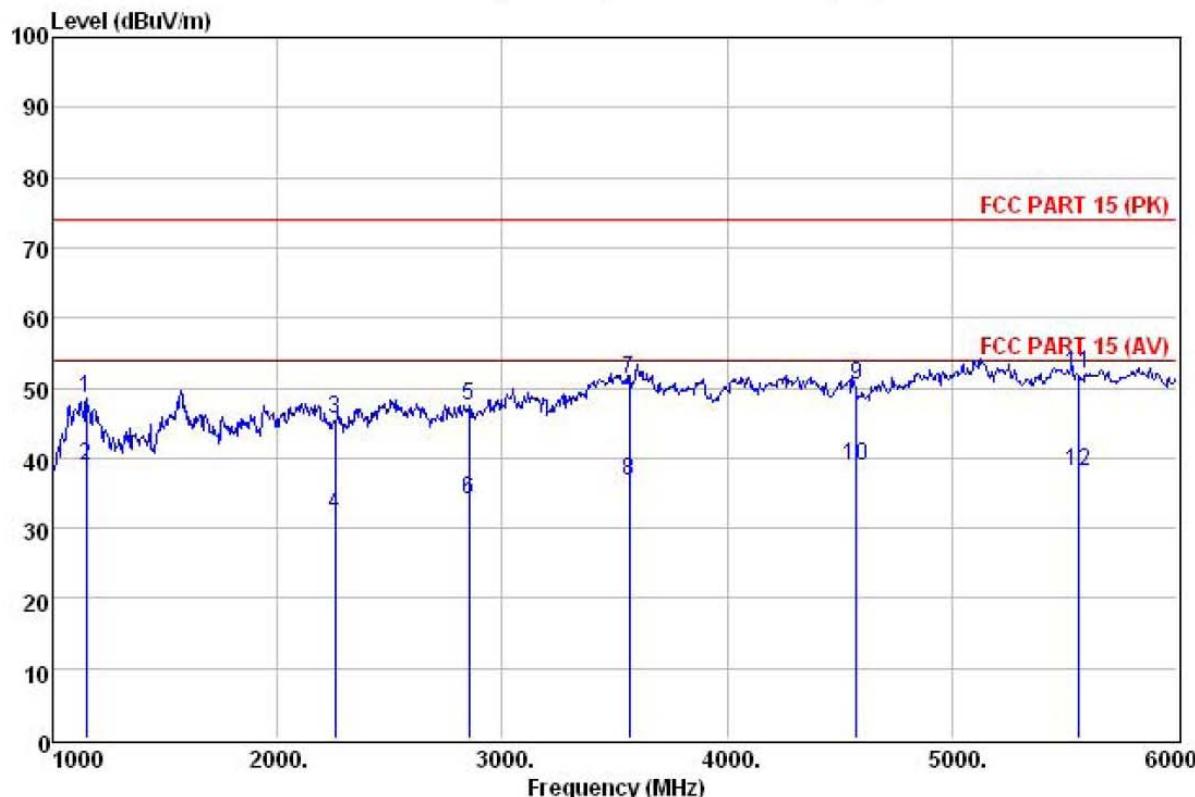


Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163 (2012.4.1) VERTICAL
 Job No. : 003RF
 EUT : Mobile Phone
 Model : I607
 Test mode : Downloading mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25°C Huni:55% Atmos:101Kpa
 Test Engineer: Vincent

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	49.881	41.86	13.26	1.26	28.28	28.10	40.00	-11.90 QP
2	150.011	52.26	8.26	2.52	29.23	33.81	43.50	-9.69 QP
3	468.876	50.15	15.83	3.36	30.52	38.82	46.00	-7.18 QP
4	510.044	49.27	16.79	3.67	30.52	39.21	46.00	-6.79 QP
5	578.670	45.32	18.09	3.92	30.55	36.78	46.00	-9.22 QP
6	938.833	44.72	21.34	4.10	29.98	40.18	46.00	-5.82 QP

Above 1GHz

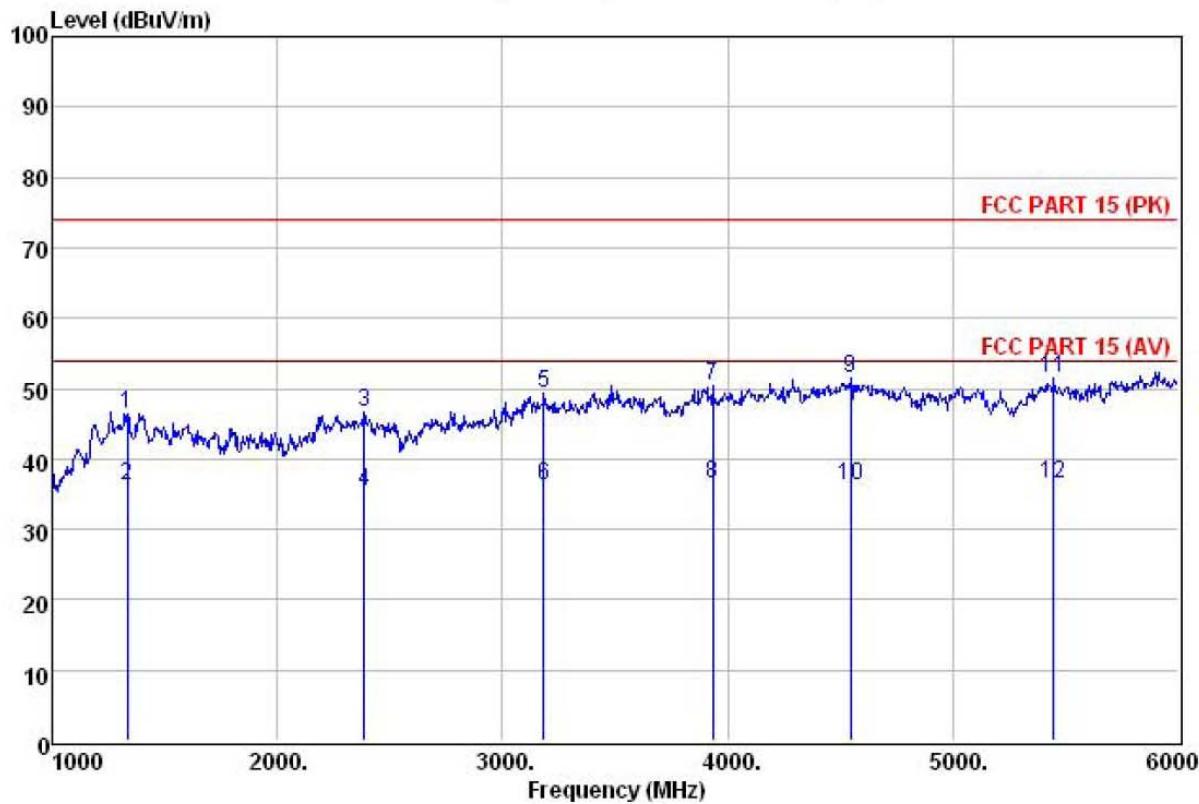
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(>1GHZ) HORIZONTAL
 Job NO. : 003RF
 EUT : Mobile Phone
 Model : I607
 Test mode : Downloading mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:24'C Humi:65% Atmos:101Kpa
 Test Engineer: Vincent

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1150.000	39.83	24.61	2.53	18.32	48.65	74.00	-25.35 Peak
2	1150.000	30.00	24.61	2.53	18.32	38.82	54.00	-15.18 Average
3	2255.000	44.32	28.02	3.72	30.50	45.56	74.00	-28.44 Peak
4	2255.000	30.65	28.02	3.72	30.50	31.89	54.00	-22.11 Average
5	2850.000	44.98	28.38	4.20	30.10	47.46	74.00	-26.54 Peak
6	2850.000	31.50	28.38	4.20	30.10	33.98	54.00	-20.02 Average
7	3565.000	44.91	29.11	4.92	27.78	51.16	74.00	-22.84 Peak
8	3565.000	30.50	29.11	4.92	27.78	36.75	54.00	-17.25 Average
9	4575.000	38.14	30.92	5.72	24.43	50.35	74.00	-23.65 Peak
10	4575.000	26.60	30.92	5.72	24.43	38.81	54.00	-15.19 Average
11	5560.000	37.55	32.09	6.31	23.81	52.14	74.00	-21.86 Peak
12	5560.000	23.59	32.09	6.31	23.81	38.18	54.00	-15.82 Average

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120 (>1GHZ) VERTICAL
 Job NO. : 003RF
 EUT : Mobile Phone
 Model : I607
 Test mode : Downloading mode
 Power Rating : AC 120W/60Hz
 Environment : Temp:24'C Huni:65% Atmos:101Kpa
 Test Engineer: Vincent

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Remark
	Level	Factor	Loss	Factor						
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1 1335.000	38.55	25.65	2.80	20.58	46.42	74.00	-27.58	Peak		
2 1335.000	28.19	25.65	2.80	20.58	36.06	54.00	-17.94	Average		
3 2385.000	45.41	27.58	3.81	30.15	46.65	74.00	-27.35	Peak		
4 2385.000	34.16	27.58	3.81	30.15	35.40	54.00	-18.60	Average		
5 3185.000	45.12	28.76	4.55	29.20	49.23	74.00	-24.77	Peak		
6 3185.000	32.16	28.76	4.55	29.20	36.27	54.00	-17.73	Average		
7 3935.000	42.23	29.78	5.23	26.80	50.44	74.00	-23.56	Peak		
8 3935.000	28.36	29.78	5.23	26.80	36.57	54.00	-17.43	Average		
9 4545.000	39.35	30.86	5.70	24.45	51.46	74.00	-22.54	Peak		
10 4545.000	24.10	30.86	5.70	24.45	36.21	54.00	-17.79	Average		
11 5450.000	36.94	31.99	6.25	23.81	51.37	74.00	-22.63	Peak		
12 5450.000	22.14	31.99	6.25	23.81	36.57	54.00	-17.43	Average		