

Report No: CCISE181109705

# **FCC REPORT**

Applicant:	SWAGTEK
Address of Applicant:	10205 NW 19th St. Suite 101, Miami, FL, 33172
Equipment Under Test (E	EUT)
Product Name:	5 inch 3G Smart Phone
Model No.:	X50A, APOLLO, W50A
Trade mark:	LOGIC, iSWAG, UNONU
FCC ID:	O55504718
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	19 Nov., 2018
Date of Test:	19 Nov., to 11 Dec., 2018
Date of report issued:	12 Dec., 2018
Test Result:	PASS *

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



### 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	12 Dec., 2018	Original

Tested by:

Caven Chen Test Engineer

Date:

12 Dec., 2018

Wimer chan }

**Project Engineer** 

Date:

12 Dec., 2018

Reviewed by:

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

## <u>CCIS</u>

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## 4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part 15.107	Pass		
Radiated Emission	Part 15.109	Pass		
Remark: Pass: The EUT complies with the essential requirements in the standard. N/A: The EUT not applicable of the test item.				



## **5** General Information

## 5.1 Client Information

Applicant:	SWAGTEK
Address of Applicant:	10205 NW 19th St. Suite 101, Miami, FL, 33172
Manufacturer/ Factory:	SWAGTEK
Address:	10205 NW 19th St. Suite 101, Miami, FL, 33172

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

Product Name:	5 inch 3G Smart Phone
Model No.:	X50A, APOLLO, W50A
Power supply:	Rechargeable Li-ion Battery DC3.7V-2000mAh
AC adapter :	Model: SSB-LW-001 Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1000mA
Remark:	Model No.: X50A, APOLLO, W50A were identical inside, the electrical circuit design, layout, components used and internal wiring. The only difference is that one product has three models, each model corresponds to one brand, three The trademarks are LOGIC and iSWAG and UNONU, the X50A model corresponds to the trademark LOGIC, the APOLLO model corresponds to the trademark UNONU.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

## 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+Playing mode	Keep the EUT in Charging+Playing mode		
FM mode	Keep the EUT in FM receiver mode		
GPS mode Keep the EUT in GPS 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			

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 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)



## 5.5 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
LENOVO	Laptop	SL510	2847A65	DoC

## 5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

## 5.7 Laboratory Facility

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

#### • FCC - Registration No.: 727551

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

#### 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.

#### • A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a>

## 5.8 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 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com



## 5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
				11-21-2017	11-20-2018
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		b
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
Chaotrum analyzar	Rohde & Schwarz	FSP40	100262	11-21-2017	11-20-2018
Spectrum analyzer	Ronde & Schwarz	F5P40	100363	11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		



## 6 Test results and Measurement Data

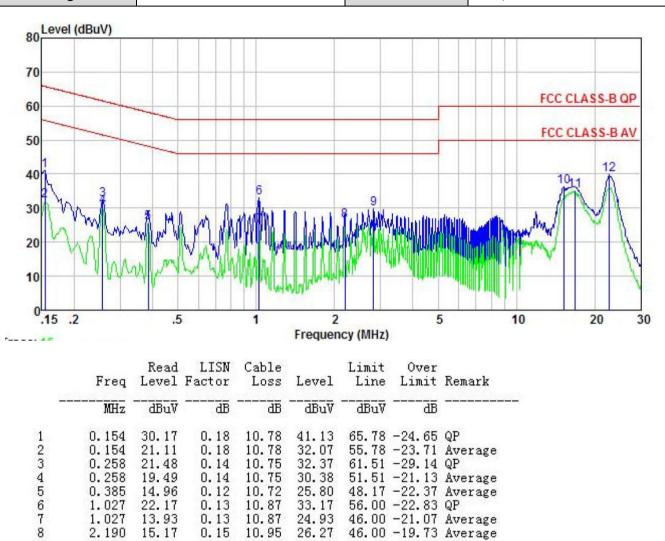
## 6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10	)7			
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	150kHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:	Frequency range (MHz)	Frequency range (MHz) Quasi-peak Average			
	0.15-0.5	66 to 56*	Average 56 to 46*		
	0.5-5	56	46		
	0.5-30	60	50		
	* Decreases with the logarith	im of the frequency.			
Test setup:	Reference Pla	ne			
	LISN       40cm       80cm       Filter       AC power         Full       E.U.T       Filter       AC power         Equipment       E.U.T       EMI       Receiver         Remarkc       E.U.T. Equipment Under Test       LISN: Line Impedence Stabilization Network         Test table height=0.8m       Network				
Test procedure	<ol> <li>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 measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs).</li> <li>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: 2014 on conducted measurement.</li> </ol>				
Test environment:	Temp.: 23 °C Humid.: 56% Press.: 101kPa				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				



#### Measurement data:

Product name:	5 inch 3G Smart Phone	Product model:	X50A
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



6	1.027	22.17	0.13	10.87	33.17	56.00 -22.83 QP
7	1.027	13.93	0.13	10.87	24.93	46.00 -21.07 Average
8 9	2.190	15.17	0.15	10.95	26.27	46.00 -19.73 Average
9	2.824	18.60	0.16	10.93	29.69	56.00 -26.31 QP
10	15.226	25.21	0.32	10.90	36.43	60.00 -23.57 QP
11	16.750	23.89	0.30	10.91	35.10	50.00 -14.90 Average
12	22.655	28.52	0.31	10.90	39.73	60.00 -20.27 QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission. 2.

Final Level =Receiver Read level + LISN Factor + Cable Loss. 3.



oduct name:	5 inch 3G Smart	Phone	Produ	uct mode	el: X50A			
st by:	Carey		Test	mode:	PC mc	ode		
st frequency:	150 kHz ~ 30 N	/Hz	Phase	e:	Neutra	Neutral		
st voltage:	ge: AC 120 V/60 Hz		Envir	onment:	Temp:	Temp: 22.5℃ Huni: 55%		
80 Level (dBuV) 70 60 50 40 40 40 40 40 40 40 40 40 4	Mun M		8	through a strict beg		FCC CLASS-B QP FCC CLASS-B AV		
0.15 .2	.5	1 Free	2 quency (MHz		5	10 20 3		
oo: <b>1</b> 1	.5 Read LISN Level Factor		quency (MHz Limit	) Over		10 20 3		
oo: <b>1</b> 1	Read LISN	Free Cable Loss Lev	quency (MHz Limit	2) Over Limit		10 20 3		

3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



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## 6.2 Radiated Emission

Test Requirement:	FCC Part 15 B S	Section 1	5.109				
Test Method:	ANSI C63.4:201	4					
Test Frequency Range:	30MHz to 6000	MHz					
Test site:	Measurement D	istance:	3m (Se	mi-Anechoi	c Chan	nber)	
Receiver setup:	Frequency	Deteo	ctor	RBW	VB۱	Ν	Remark
	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value
	Above 1GHz	Pea RM		1MHz 3MH			Peak Value
			1MHz	3MF	HZ	0	
Limit:	FrequencyLimit (dBuV/m @3m)30MHz-88MHz40.0						Remark
	30MHz-88MHz         40.0           88MHz-216MHz         43.5						Quasi-peak Value
	216MHz-960			43.5			Quasi-peak Value Quasi-peak Value
	960MHz-1G			54.0			Quasi-peak Value
				54.0			Average Value
	Above 1G	Hz -		74.0			Peak Value
Test setup:	Ground Plane –	im « 4m 4m im « im « im « im » im »			Antenna - Search Antenn RF Test 	h	
		Test	Ground R Receiver	eference Plane	Controller		

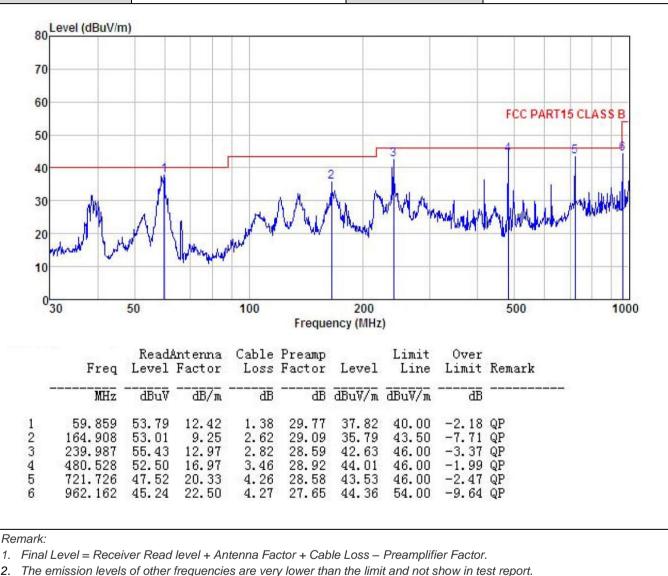


Test Procedure:	ground degrees 2. The EU antenna tower. 3. The ant ground horizon measur 4. For eac and the find the 5. The tes	at a 3 meter s to determine T was set 3 m a, which was n enna height is to determine tal and vertica ement. h suspected on n the antenna rotatable tab maximum res	semi-anechoi e the position neters away f mounted on t s varied from the maximun al polarization emission, the a was tuned t le was turned ading. tem was set	ic camber. The of the highes from the inter he top of a va- one meter to n value of the ns of the anter EUT was ar o heights from d from 0 degr to Peak Dete	ne table was st radiation. ference-rec ariable-heig o four meter field streng nna are se ranged to it m 1 meter t ees to 360	ceiving ght antenna rs above the gth. Both t to make the s worst case o 4 meters
	6. If the er limit spe EUT wo margin	nission level ( ecified, then te	of the EUT in esting could be ed. Otherwise ested one by	peak mode be stopped a e the emission one using pe	nd the peak ons that did eak, quasi-p	
Test environment:	Temp.:	25 °C	Humid.:	55%	Press.:	1 01kPa
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Refer to se	ection 5.3 for	details			
Test results:	Passed					
Remark:	All of the or recorded	bserved valu	e above 6GH	Iz ware the r	niose floor ,	which were no



### Measurement Data:

Below TOTIZ.			
Product Name:	5 inch 3G Smart Phone	Product Model:	X50A
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%







oduct Name:	5 inch 3G Smart	t Phone		Proc	duct Mo	del:	X50A			
st By:	Carey			Test	t mode:		PC mod	PC mode		
st Frequency:	30 MHz ~ 1 GI		Pola	Polarization:		Horizontal				
st Voltage:	Voltage: AC 120/60Hz			Env	Environment:			<b>4</b> ℃	Huni: 57%	
80 Level (dBuV/m	1)									
80										
70										
60							FCC DA	DTASC	A C C D	
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20 10 Maler Mayner	50	100	Frequen	200 ncy (MHz		Over	500	N.MA	1000	
20 10 mbr - Mayword 0 30		100 Cable F	Frequen	ncy (MHz	Limit	Over Limit		N.MY	1000	
20 10 mbr - Mayword 0 30	50 ReadAntenna	100 Cable F	Frequen Preamp Factor	ncy (MHz Level	Limit				1000	
20 10 10 0 30 Freq MHz 1 167.237	50 ReadAntenna Level Factor dBuV dB/m 53.52 9.32	100 Cable H Loss H 	Frequen Preamp Factor dB d 29.07	ncy(MHz Level IBuV/m 36.41	Limit Line dBuV/m 43.50	Limit 	Remark 		1000	
20 10 0 30 Freq MHz 1 167.237 2 216.024 3 283.979	50 ReadAntenna Level Factor dBuV dB/m 53.52 9.32 51.60 12.12 52.35 13.51	100 Cable F Loss F dB 2.64 2.85 2.90	Frequen Preamp Factor dB d 29.07 28.73 28.48	Level IBuV/m 36.41 37.84 40.28	Limit Line dBuV/m 43.50 46.00 46.00	Limit    	Remark  QP QP QP		1000	
20 10 0 30 Freq MHz 1 167.237 2 216.024 3 283.979 4 416.179 5 480.528	50 ReadAntenna Level Factor dBuV dB/m 53.52 9.32 51.60 12.12 52.35 13.51 49.36 15.70 49.75 16.97	100 Cable H Loss H 	Frequen Preamp Factor dB d 29.07 28.73 28.48 28.81 28.92	Level IBuV/m 36.41 37.84 40.28 39.37 41.26	Limit Line dBuV/m 43.50 46.00 46.00 46.00 46.00	Limit -7.09 -8.16 -5.72 -6.63 -4.74	Remark  QP QP QP QP QP QP		1000	
20 10 10 0 30 Freq MHz 1 167.237 2 216.024 3 283.979 4 416.179	50 ReadAntenna Level Factor dBuV dB/m 53.52 9.32 51.60 12.12 52.35 13.51 49.36 15.70	100 Cable H Loss H 	Frequen Preamp Factor dB d 29.07 28.73 28.48 28.81 28.92	Level IBuV/m 36.41 37.84 40.28 39.37	Limit Line dBuV/m 43.50 46.00 46.00 46.00	Limit -7.09 -8.16 -5.72 -6.63	Remark  QP QP QP QP QP QP		1000	



Produc	ct Na	ame:		5 inc	h 3G	Smar	t Pho	ne		Pro	duct Mod	del:	X50A		
est By	y:		Carey Test mode: PC mod					PC mode							
est Fr	requ	ency:		1 GH	łz ∼	6 GH	z			Pola	rization		Vertical		
est Vo	olta	ge:		AC 1	20/6	60Hz				Env	ironmen	t:	<b>Temp: 24</b> ℃	Hu	ni: 57%
80 Le	evel	dBuV/i	m)										1.00000		
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60															in a
00	_												FCC P	ART 15	(AV)
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20				1:	500			2000	0 Freque	ncy (MHz	)				
20		1200	)	1: Read	500 IAnt	enna	Ca	2000	0 Freque Preamp	ncy (MHz	) Limit	Over			
20		1200 Fre	)	1: Read Level	500 IAnt Fa	enna	Ca	2000 able	0 Freque Preamp Factor	ncy (MHz Level	) Limit Line	Over Limit	Remark		
20		1200 Fre	)	1: Read	500 IAnt Fa	enna	Ca	2000	0 Freque Preamp Factor	ncy (MHz	) Limit Line	Over Limit	Remark		
20 10 0 10	24	1200 Fre M144.62	) eq Hz - 29	1: Read Level dBui	i00 IAnt Fa	enna ctor dB/m 5.49	Ca L 	2000 able .oss dB	0 Frequer Preamp Factor dB 41.93	ncy (MHz Level dBuV/m 36.90	) Limit Line dBuV/m 74.00	Over Limit 	Remark 		
20 10 0 10	2« 24	1200 Fre M144.62	) eq Hz - 29 29	19 Read Level dBuy 48. 62 38. 69	i00 Ant Fa 7	enna ctor dB/m 5.49	Ca L 	2000 able .oss dB .72 .72	0 Freques Factor dB 41.93 41.93	ncy (MHz Level dBuV/m 36.90 26.97	) Limit Line dBuV/m 74.00 54.00	Over Limit 	Remark  Peak Average		
20 10 0 10 10	24 24 31	1200 Fre Mi 114.62 375.70	) Hz - 29 29 07	15 Read Level dBuy 48. 62 38. 69 46. 71	500 Anti Fa 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2	enna ctor dB/m 5.49 5.49 7.43	Ca L 	2000 able .oss dB .72 .72 .72 .60	0 Freques Factor dB 41.93 41.93 41.36	ncy (MHz Level dBuV/m 36.90 26.97 38.38	Limit Line dBuV/m 74.00 54.00 74.00	Over Limit -37.10 -27.03 -35.62	Remark Peak Average Peak		
20 10 0 10	24 24 23 33	1200 Fre M144.62	) Hz - 29 29 07 07	15 Read Level dBuy 48. 62 38. 69 46. 71 37. 42	500 IAnt Fa 7 2 2 2 2 2 2	enna ctor dB/m 5.49	Ca L 	2000 able .oss dB .72 .72	0 Freques Factor dB 41.93 41.93 41.36 41.36	ncy (MHz Level dBuV/m 36.90 26.97 38.38 29.09	Limit Line dBuV/m 74.00 54.00 74.00 54.00	Over Limit -37.10 -27.03 -35.62	Remark Peak Average Peak Average		

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

The emission levels of other frequencies are very lower than the limit and not show in test report. 2.





oduct Name:	5 inch 3G Smar	t Phone	Product Mo	del: X	50A		
est By:	Carey		Test mode:	P	PC mode		
est Frequency:	1 GHz ~ 6 GH	Z	n: Horizontal				
est Voltage:	AC 120/60Hz		Environmen	it: To	Temp: 24℃ Huni: 57%		
Laurel (dDed (im)							
80 Level (dBuV/m)					FCC PART 15 (PK)		
70							
60							
00					FCC PART 15 (AV)		
50					5		
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20							
10							
0 1000 1200	1500	2000		110	5000 6000		
1000 1200	1000		ency (MHz)		5000 6000		
	ReadAntenna	Cable Preamp	Limit	Over			
Freq	Level Factor			Limit Ren	nark		
MHz	dBuV dB/m	BB	dBuV/m dBuV/m	B			
1 2414.629		4.72 41.93					
3 3607.084	38.52 25.49 46.66 27.69	5.90 41.55	26.80 54.00 38.70 74.00	-35.30 Pea	ak		
4 3607.084 5 5006.774	37.4727.6946.3931.75	5.90 41.55 6.94 41.88	43.20 74.00	-24.49 Ave -30.80 Pea	ak		
C E00C 774	37.52 31.75	6.94 41.88	34.33 54.00	-19.67 Ave	erage		
6 5006.774							